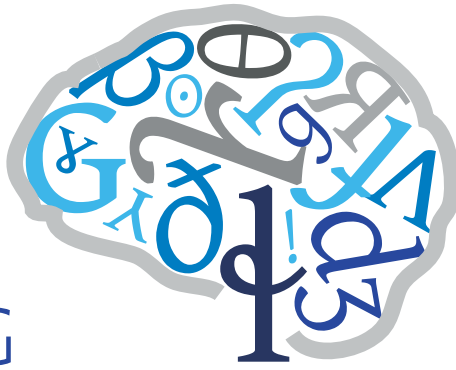


10TH
ANNUAL
MEETING



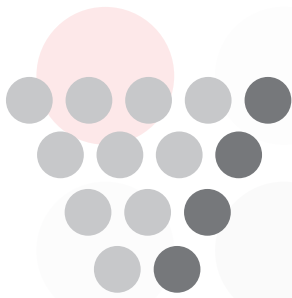
Society for the
Neurobiology
of Language

AUGUST 16 - 18 **2018** QUEBEC CITY, CANADA

**SCIENTIFIC
PROGRAM**



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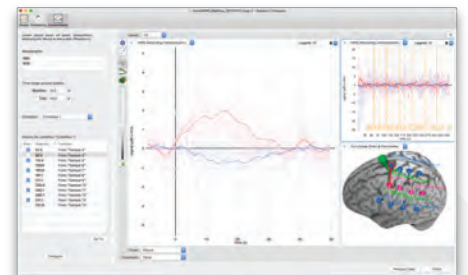
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Welcome to the Tenth Annual Meeting of the Society for the Neurobiology of Language

HAPPY ANNIVERSARY! The Society for the Neurobiology of Language has been thriving and growing since the first meeting in Chicago in 2009, and it is time to celebrate! This year we expanded the meeting to three whole days, to accommodate an amazing program, featuring four keynote lectures (**Robert Zatorre**, **Dorothee Saur**, **Morten Christiansen**, and **Julie Fiez**), talks by our Early Career (**Bharath Chandrasekaran** and **Pascale Tremblay**) and Distinguished Career (**Steven Small**) awardees, and a panel discussion about the past, present, and future of our field (moderated by **Sophie Scott**). In addition to these special events, our scientific program features three slide sessions and five poster sessions – each preceded by a poster slam where eight selected presenters highlight their findings in one minute (one clap for each!). The evening before the meeting, we are hosting a public lecture (by **Robert Laforce** and **Noémie Auclair-Ouellet**) focused on neurodegenerative disorders of language, targeting the local French-speaking people of Québec. The goal of this new initiative is to raise awareness to issues related to the neurobiology of language among the population of the host city, and to disseminate the products of research in our field to the general public.

Our keynote speakers will explore the neurobiology of language from the perspectives of language evolution, neural plasticity, recovery of the language pathways after stroke, and the reading brain. This 10th anniversary meeting is an excellent opportunity to take stock of the achievements within our field and to discuss the challenges and goals for the next 10 years – bring your questions and join the panel discussion with our past SNL chairs on Saturday morning. For all sessions, we have left plenty of room for lively discussions, and I encourage speakers and session chairs to call on junior scientists to ask the first questions.

Please join us for the opening night reception at the fabulous Musée national des beaux-arts du Québec (a lovely 15-minute walk from the Convention Centre) where you will be treated to Québec traditional music while enjoying excellent Canadian cuisine. **For student and postdoctoral researchers**, we have set up a networking opportunity for you to meet each other: Look for the “Gotta Catch ‘Em All: Scientist Edition” worksheet at the welcome table and have fun (there will be prizes)! Please also join us in celebrating our 10th anniversary with Prosecco and cake at the Friday evening social hour.

I would like to thank the Program Committee for putting together an exciting scientific program: Manuel Carreiras, Jim Magnuson, Clara Martin, with special thanks to Michal Ben-Shachar as Chair of the Program Committee, and to Pascale Tremblay as Head of the local organizers. Shauneq Wilson, Shawna Lampkin, and their team also deserve a round of applause for their skill in running this meeting. Thanks also to all who took time to review and provide feedback for the abstract submissions.

Finally, I am thrilled to announce that our Society will be joining with MIT Press to launch a new open access journal titled Neurobiology of Language. Please talk with Steve Small, Kate Watkins, or any board member to find out how SNL members can get involved and benefit from reduced publications costs. Come to the business meeting at the end of the conference to learn more!

Karen Emmorey
Chair, Society for the Neurobiology of Language

Review Committee

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Tanya Dash	Vanja Kljajevic	Carlos Romero-Rivas	
Matt Davis	Sonja Kotz	Daniela Sammler	

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Pascale Tremblay Local Organizer
Université Laval, Québec

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Heather Bortfeld
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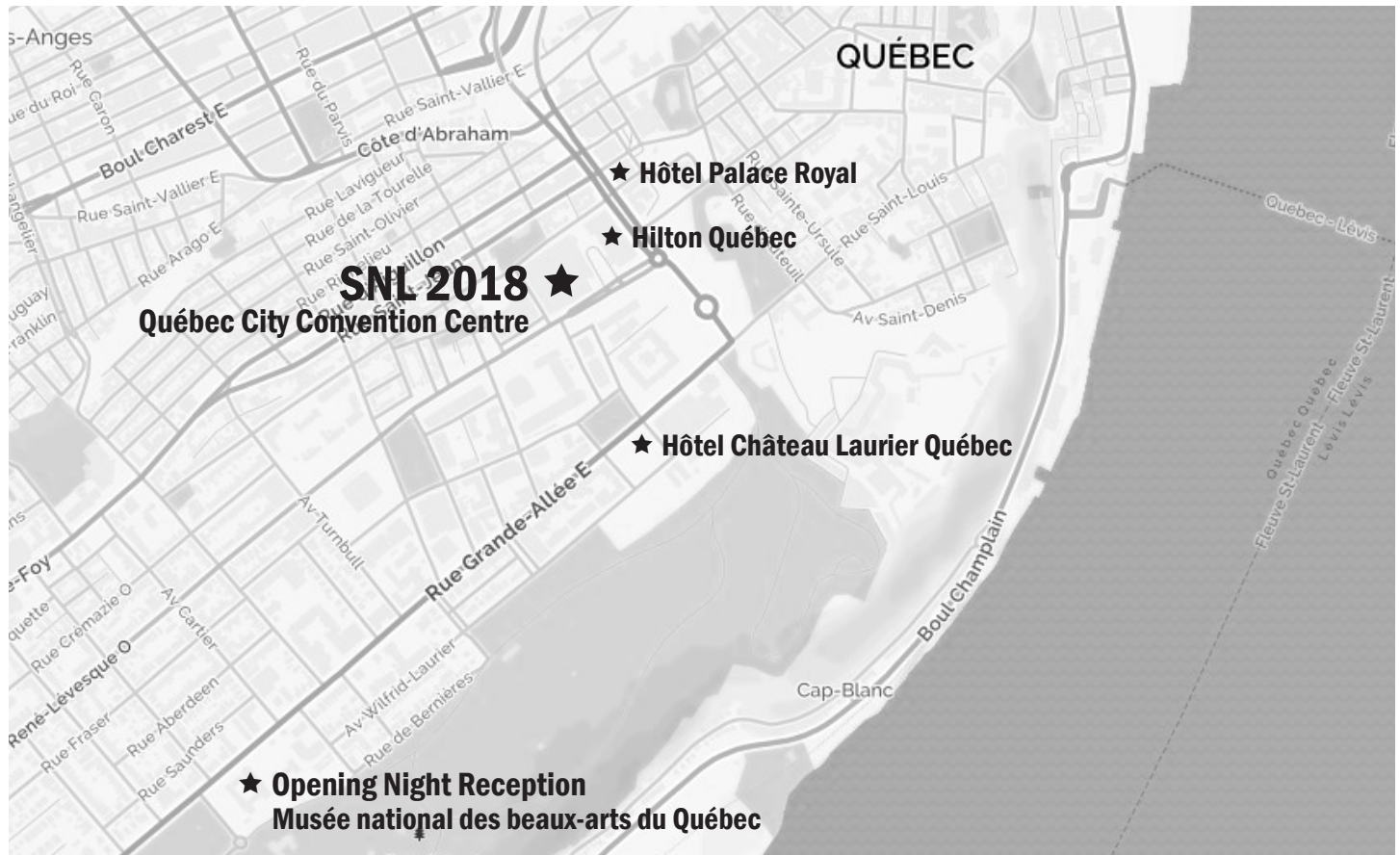
Kate Watkins
University of Oxford

SNL Founders

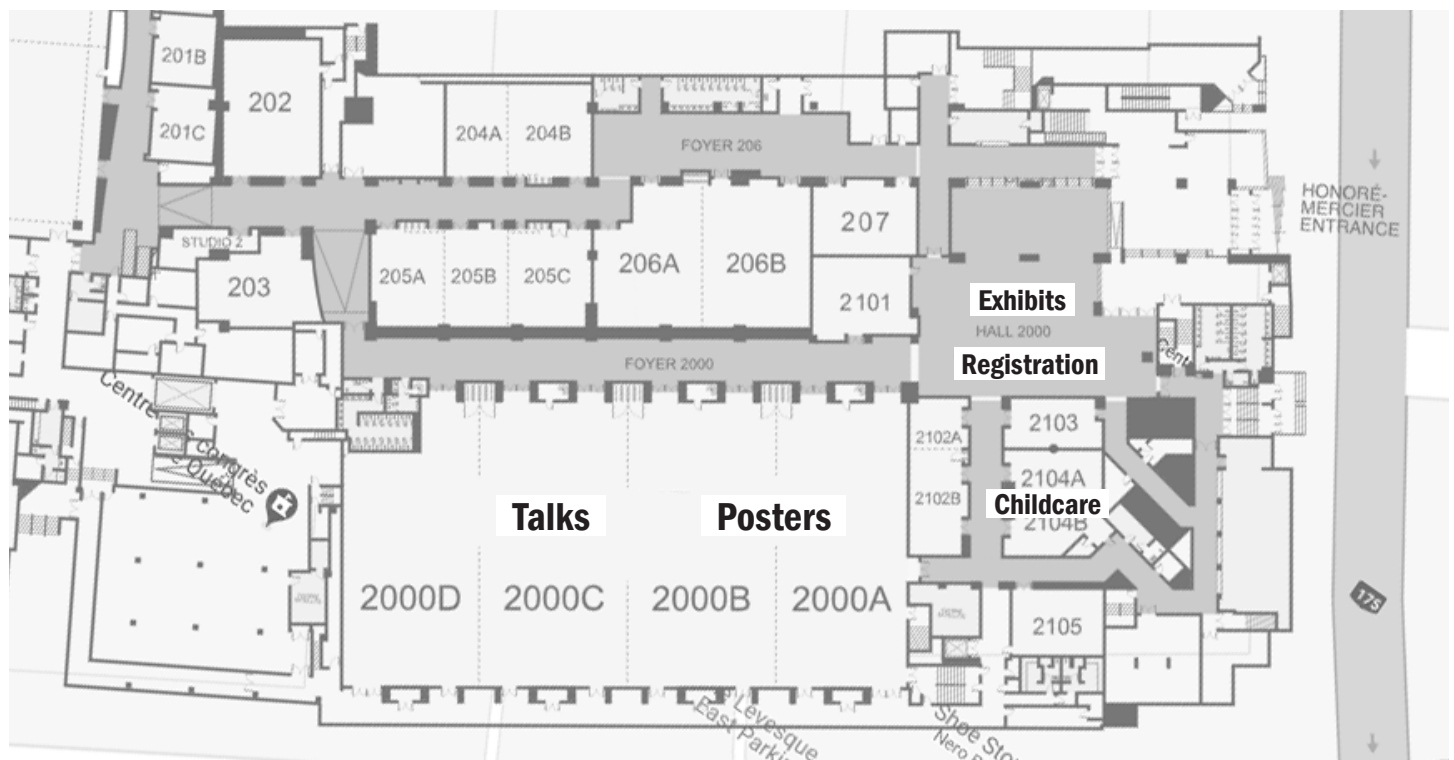
Steven L. Small
University of California, Irvine

Pascale Tremblay
Université Laval, Québec

Québec City Map



Québec City Convention Centre - Level 2



Schedule of Events

Wednesday, August 15

8:30 am – 4:30 pm Satellite Symposium
at Domaine Cataraqui
Offsite: 2141, chemin Saint-Louis

6:30 – 7:45 pm Public Lecture *Room 2000C*

Thursday, August 16

7:00 am – 5:45 pm Meeting Registration *Hall 2000*

7:45 – 8:45 am Continental Breakfast *Hall 2000*

8:00 am – 5:00 pm Exhibits Open *Hall 2000*

8:45 – 9:00 am Opening Remarks: Karen Emmorey
Room 2000C

9:00 – 10:00 am **Keynote Lecture: Robert Zatorre**
Predispositions and Plasticity
in Auditory-Motor Learning:
Hemispheric Asymmetries
Room 2000C

10:00– 10:15 am Poster Slam Session A *Room 2000C*

10:15 – 10:45 am Coffee Break *Hall 2000*

10:15 am – 12:00 pm Poster Session A *Room 2000AB*

12:00 – 1:30 pm Lunch (on your own)

1:30 – 2:50 pm Slide Session A *Room 2000C*

2:50 – 3:05 pm Poster Slam Session B *Room 2000C*

3:05 – 3:35 pm Coffee Break *Hall 2000*

3:05 – 4:50 pm Poster Session B *Room 2000AB*

4:50 – 5:35 pm **Distinguished Career Award:**
Steven L. Small
Room 2000C

6:30 – 9:30 pm **Opening Night Reception**
at the Musée national des beaux-arts
du Québec
Offsite: 179 Grande Allée Ouest

Friday, August 17

7:00 am – 6:30 pm Meeting Registration *Hall 2000*

7:30 – 8:30 am Continental Breakfast, *Hall 2000*

8:00 am – 6:30 pm Exhibits Open *Hall 2000*

8:30 – 9:30 am **Keynote Lecture: Dorothee Saur**
Recovery from Aphasia – Insights
into Plasticity of the Language
Network
Room 2000C

9:30 – 10:15 am

Early Career Awards:
Bharath Chandrasekaran and
Pascale Tremblay
Room 2000C

10:15 – 10:30 am

Poster Slam Session C *Room 2000C*

10:30 – 11:00 am

Coffee Break *Hall 2000*

10:30 am – 12:15 pm

Poster Session C *Room 2000AB*

12:15 – 1:40 pm

Lunch (on your own)

1:40 – 3:00 pm

Slide Session B *Room 2000C*

3:00 – 3:30 pm

Coffee Break *Hall 2000*

3:30 – 4:30 pm

Keynote Lecture:
Morten H. Christiansen
Language Evolution through the
Bottleneck: From Milliseconds to
Millennia *Room 2000C*

4:30 – 4:45 pm

Poster Slam Session D *Room 2000C*

4:45 – 6:30 pm

Poster Session D and Social Hour
Room 2000AB

Saturday, August 18

7:30 am – 5:30 pm

Meeting Registration *Hall 2000*

7:30 – 8:30 am

Continental Breakfast *Hall 2000*

8:00 am – 3:30 pm

Exhibits Open *Hall 2000*

8:30 – 10:30 am

Panel: Neurobiology of Language:
Past, Present and Future
Room 2000C

10:30 – 11:00 am

Coffee Break *Hall 2000*

11:00 am – 12:20 pm

Slide Session C *Room 2000C*

12:20 – 12:30 pm

NSF Funding Opportunities:
Uri Hasson *Room 2000C*

12:20 – 1:45 pm

Lunch (on your own)

1:45 – 2:45 pm

Keynote Lecture: Julie Fiez
How Does the Brain Teach Itself to
Read *Room 2000C*

2:45 – 3:00 pm

Poster Slam Session E *Room 2000C*

3:00 – 3:30 pm

Coffee Break *Hall 2000*

3:00 – 4:45 pm

Poster Session E *Room 2000AB*

4:45 – 5:30 pm

Business Meeting, Closing Remarks
and Outlook to SNL 2019: Karen
Emmorey and Manuel Carreiras
Room 2000C

Keynote Lecture: Robert Zatorre

Robert Zatorre

Montreal Neurological Institute, McGill University



Robert Zatorre is a cognitive neuroscientist at the Montreal Neurological Institute of McGill University. His principal interests relate to the neural substrate for auditory cognition, with special emphasis on two complex and characteristically human abilities: speech and music. He and his collaborators

have published over 280 scientific papers on a variety of topics including pitch perception, auditory imagery, auditory-motor integration, music and emotion, perception of auditory space, and brain plasticity in the blind and the deaf. In 2005 he was named holder of a James McGill chair in Neuroscience. In 2006 he became the founding co-director of the international laboratory for Brain, Music, and Sound research (BRAMS), a unique multi-university consortium with state-of-the-art facilities dedicated to the cognitive neuroscience of music. In 2011 he was awarded the IPSEN foundation prize in neuronal plasticity, and in 2013 he won the Knowles prize in hearing research from Northwestern University. He lives in Montreal with his wife and collaborator Virginia Penhune, professor of psychology at Concordia University. He tries to keep up his baroque repertoire on the organ whenever he can get a chance.

Predispositions and Plasticity in Auditory-Motor Learning: Hemispheric Asymmetries

Thursday, August 16, 9:00 – 10:00 am, Room 2000C

Chair: Pascale Tremblay, Université Laval, Québec

Our lab has focused on music as a powerful model for understanding plasticity in a human cognitive neuroscience context. This talk will present evidence that musical training modifies auditory and motor networks, and their functional and anatomical relationships, and that important asymmetries exist across the two hemispheres in these systems. We will also discuss evidence that individual differences in learning are related to functional features that may serve as predictors of later learning success. Our goal is to develop a better model of how the large-scale organization and asymmetries of auditory-motor networks relate to the experience-dependent plasticity that underlies complex skills such as playing a musical instrument, which may also have implications for speech.

Keynote Lecture: Dorothee Saur

Dorothee Saur

University of Leipzig



Dorothee Saur serves as the Vice Chair of Neurology at the Department of Neurology, University of Leipzig. Her specialty areas are vascular and cognitive neurology. Early in her career, she started studying aphasic stroke patients with functional MRI from the acute to the chronic stage after stroke. This allowed

her to identify the dynamics of language reorganisation promoting recovery from aphasia. Her research combines a broad spectrum of modern neuroimaging and non-invasive brain stimulation techniques aiming to reveal key mechanisms of brain reorganization at a systems level. As a neurologist, her dedication is to answer questions derived from her daily work with patients.

Recovery from Aphasia – Insights into Plasticity of the Language Network

Friday, August 17, 8:30 – 9:30 am, Room 2000C

Chair: Michal Ben-Shachar, Bar Ilan University

The organization of language in left-lateralized large-scale networks of closely connected and interacting brain areas in the temporal, frontal and parietal lobe allows the brain to flexibly adapt when a focal lesion hits the network. On one hand, lesions to this network may be induced by non-invasive brain stimulation such as transcranial magnetic stimulation. Although the analogy to stroke lesions is not perfect, this approach allows us to study principles of network reorganisation in a controlled lesion model in healthy subjects. On the other hand, using neuroimaging in order to map the recovery process in stroke patients with aphasia represents a unique possibility to identify mechanisms of brain repair in vivo. Synthesizing these findings in a comprehensive model of language reorganisation will, hopefully, open up new perspectives in the neurorehabilitation of stroke patients with aphasia.



Keynote Lecture: Morten H. Christiansen

Morten H. Christiansen

Cornell University, Aarhus University, Haskins Laboratories



Morten H.

Christiansen is the William R. Kenan, Jr. Professor of Psychology and Co-Director of the Cognitive Science Program at Cornell University as well Senior Scientist at the Haskins Labs and Professor in Cognitive Science of Language at the School of Communication and Culture and the

Interacting Minds Centre at Aarhus University, Denmark. He was the Ida Cordelia Beam Distinguished Visiting Professor at the University of Iowa (2010) and Visiting Professor at the University of Hong Kong (2012). His research focuses on the interaction of biological and environmental constraints in the evolution, acquisition and processing of language. He employs a variety of methodologies, including computational modeling, corpus analyses, statistical learning, psycholinguistic experiments, and neuroimaging. Dr. Christiansen is the author of nearly 200 scientific papers and has edited four books. His newest book, *Creating language: Integrating evolution, acquisition, and processing*, from MIT Press (2016), provides a comprehensive overview of his work over the past two decades. He is a Fellow of the Cognitive Science Society, the Association for Psychological Science, and the Psychonomic Society. Among his awards are a Cognitive Psychology Section Award from the British Psychological Society (2013) and a Charles A. Ryskamp Research Fellowship from the American Council of Learned Societies (2006). Dr. Christiansen delivered the 2009 Nijmegen Lectures at the Max Planck Institute for Psycholinguistics, the Netherlands, and was the inaugural keynote speaker at the Edinburgh Lectures in Language Evolution, Centre for Language Evolution, University of Edinburgh, in 2017.

Language Evolution through the Bottleneck: From Milliseconds to Millennia

Friday, August 17, 3:30 – 4:30 pm, Room 2000C

Chair: Jim Magnuson, University of Connecticut

Over the past few decades, the language sciences have seen a shift toward explaining language evolution in terms of cultural evolution rather than biological adaptation. This work has demonstrated how various nonlinguistic biases amplified by cultural transmission across generations, along with pressures from interactions between individuals within each generation, may help explain many aspects of linguistic structure observable in today's languages. Language universals, on this account, are viewed as probabilistic tendencies deriving from domain-general constraints on the nature of our thought processes, our sensori-motor apparatus, socio-pragmatic factors, and cognitive limitations on learning, memory and processing. As an illustration, I discuss the possible contribution to language evolution of a fundamental constraint on processing. During normal linguistic interaction, we are faced with an immense challenge by the combined effects of rapid input, short-lived sensory memory, and severely limited sequence memory. To overcome this Now-or-Never bottleneck, language users must learn to compress and recode language input as rapidly as possible into increasingly more abstract levels of linguistic representation. I highlight some of the key implications for theories of language acquisition and processing as well as the neurobiology of language.

Keynote Lecture: Julie Fiez

Julie A. Fiez

University of Pittsburgh



Julie A. Fiez is a Professor and Chair of Psychology, and she holds appointments in the Department of Neuroscience, Department of Communication Science and Disorders, the Learning Research and Development Center, and the Center for the Neural Basis of Cognition at the University of Pittsburgh. She

received her PhD in Neuroscience from Washington University in 1992, completed a postdoctoral fellowship at the University of Iowa, and then joined the Department of Psychology at the University of Pittsburgh in 1997. Her research uses behavioral, neuropsychological, neurophysiological, and neuroimaging methods to examine the neural basis of speech, language, reading, working memory, and learning in healthy and patient populations. Dr. Fiez has received honorary awards for her research accomplishments from the Society for Human Brain Mapping and the American Psychological Association.

How does the brain teach itself to read?

Saturday, August 18, 1:45 – 2:45 pm, Room 2000C

Chair: Clara Martin, Basque Center on Cognition, Brain and Language (BCBL)

Reading is a culturally recent innovation and so it is unlikely the brain is biologically hard-wired with specialized areas devoted to this skill. This means that humans must somehow use explicit instruction and reading practice to drive neural change. For successful learners, the result is a brain in which visual word recognition occurs automatically. How does this happen? In this talk, I consider a key brain region that supports visual word recognition – the “visual word form area” – and the ways in which reading experience shapes its location and functional interactions with a broader speech and language network. I conclude by considering how the work may inform intervention efforts for struggling readers.

Panel Discussion: Neurobiology of Language: Past, Present and Future

Saturday, August 18, 2018, 8:30 – 10:30 am,
Room 2000C

Moderator: Sophie Scott

Panelists: Greig de Zubicaray, Nina Dronkers, Gregory Hickok, Jeffrey Binder, Lorraine K. Tyler, Peter Hagoort, Karen Emmorey, Steven Small, Pascale Tremblay

A distinguished panel of Chairs and Founders of the Society will take a broad look at the field and its evolution over the past decade. The 10th meeting of the Society is an opportunity to take stock of what our field has achieved in the past decade and discuss the goals and aspirations for the next 10 years. Prepare your questions for the panelists and join us for this unique interactive event.



Sophie Scott

University College London



Greig de Zubicaray

Queensland University of Technology
SNL Chair 2015-2016



Nina Dronkers

VA Northern California Health Care System and
University of California, Davis
SNL Chair 2014-2015



Gregory Hickok

University of California, Irvine
SNL Chair 2010-2011



Jeffrey Binder

Medical College of Wisconsin
SNL Chair 2012-2013



Lorraine K. Tyler

University of Cambridge
SNL Chair 2016-2017



Peter Hagoort

Max Planck Institute for Psycholinguistics and
Radboud University, Nijmegen
SNL Chair 2013-2014



Karen Emmorey

San Diego State University
SNL Chair 2017-2018



Steven Small

University of California, Irvine
Founder of SNL
SNL Chair 2009-2010



Pascale Tremblay

CERVO Brain Research Centre, Université Laval
Founder of SNL
Meeting Organizer 2009-2010

Including a short presentation, **SNL in Numbers**,
by Svetlana Pinet and Raphaël Fargier.



Svetlana Pinet

Johns Hopkins University



Raphaël Fargier

Aix-Marseille University

Distinguished Career Award: Steven L. Small

The Society for the Neurobiology of Language is pleased to announce the 2018 Distinguished Career Award winner: Steven L. Small.

The Distinguished Career Award is generously sponsored by *Language, Cognition and Neuroscience*.

Steven L. Small

Professor of Neurology, Neurobiology & Behavior, and Cognitive Sciences, University of California, Irvine



The career of **Steven L. Small** has been fundamentally dedicated to understanding the neurobiology of language. Dr. Small completed his undergraduate training in mathematics at Dartmouth College, his Ph.D. in computer science at the University of Maryland, and his

M.D. at the University of Rochester. For his dissertation, Dr. Small built a parser, reflecting an early interest in the complex rules governing human language. A neurology residency at the University of Pittsburgh developed his understanding of the brain that engenders this ability. The unique perspective afforded by this rare combination of backgrounds has caused Dr. Small to be consistently positioned at the forefront of the study of the neurobiology of language, and led to the founding of this Society, in collaboration with Dr. Pascale Tremblay.

Over the past four decades, Dr. Small has made many critical scientific contributions to the neurobiology of language. These include copious work in normal language function, as well as post-stroke aphasia, and early focal brain injury. His recent work focuses on the

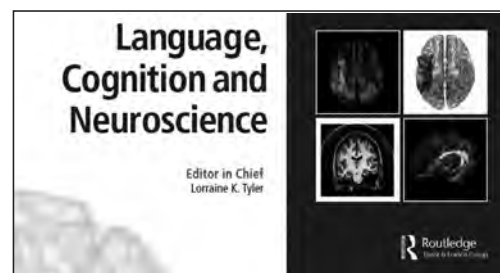
interactions between the neural systems for controlling movement and those related to speech production and comprehension. Dr. Small's research consistently uses innovative methods to interrogate language production and processing, including multivariate structural equation models applied to observation and imitation of audiovisual speech from the level of syllables to discourse. In studies of naturalistic language comprehension, development following early stroke, and aphasia recovery, Dr. Small has used functional network analyses and graph theoretical approaches to characterize the complexity of the language system. Important advances from this work include the surprising finding of preserved network structure among language areas following pre- and peri-natal stroke. In sum, Dr. Small's scientific contributions bring us closer to understanding and modeling the neurobiology of language.

The Neurobiology of Language

Thursday, August 16, 4:50 – 5:35 pm, Room 2000C

Chair: Lorraine Tyler, University of Cambridge

The biological mechanisms of language are only beginning to be elucidated through intense interaction of behavioral and brain sciences, using advanced methods of human anatomical and physiological investigation, statistical inference, and computational modeling. This paradigm shift is not without innovation and controversy, and this talk will delve into a few examples of each.



Early Career Award: Bharath Chandrasekaran

The Society for the Neurobiology of Language is pleased to announce the 2018 Early Career Award winners: Bharath Chandrasekaran and Pascale Tremblay.

The Early Career Awards are generously sponsored by *Brain and Language*.

Bharath Chandrasekaran

Associate Professor, The University of Texas at Austin,
Department of Communication Sciences & Disorders



Bharath Chandrasekaran received his Ph.D. in Integrative Neuroscience from Purdue University in 2008, and after a two-year Postdoctoral Fellowship at Northwestern University, he became an Assistant Professor in the Department of Communication Sciences and Disorders at The University of Texas at Austin, receiving tenure in 2015.

Dr. Chandrasekaran has developed two theoretical models of speech learning that are paradigm shifting. The Predictive Tuning Model argues against a corticocentric view of speech learning and proposes that top-down corticofugal connections are instrumental in selectively enhancing speech signals in challenging listening environments and during auditory learning. His dual learning systems (DLS) model proposes two dissociable cortico-striatal neural streams that are active during learning: a sound-to-rule mapping 'reflective' system, wherein processing is under conscious, deliberative control, and a sound-to-reward mapping 'reflexive' system that is not under conscious control. His most recent research examines the impact of non-invasive peripheral nerve stimulation on language learning in adults. Dr. Chandrasekaran has published 60 peer-reviewed papers (17 in the last two years), and his work was recently highlighted in *Scientific American*. His publications and collaborative research projects cover the entire gamut of neuroimaging approaches: EEG, fMRI, electrocorticography, neuromodulation via peripheral nerve stimulation, and near-infrared spectroscopy.

In addition to his rich research contribution, Dr. Chandrasekaran serves as the Editor-in-Chief of the *Journal of Speech, Language, and Hearing Research* (Speech section), and he is a standing member of the NIH Language and Communication (LCOM) panel. During his early career, Dr. Chandrasekaran has demonstrated continued excellence in research and is an exceptional academic citizen.

Corticostriatal Systems in Speech Categorization

Friday, August 17, 9:30 – 9:55 am, Room 2000C

Chair: Karen Emmorey, San Diego State University

Speech sounds are multidimensional, acoustically variable, and temporally ephemeral. Despite the enormous computational challenge, native speech perception is rapid and automatic. Over the last decade, we have made substantial progress in understanding the cortical mechanisms underlying mapping of speech onto meaning (ventral pathway) and articulation (dorsal pathway). The dorsal and ventral streams are useful points of reference to understand the processing of native speech signals. The primary goal of this talk is to elucidate mechanisms underlying how novel speech categories are acquired and represented in the mature brain. I will discuss a novel theoretical framework, the dual-learning systems (DLS) model that characterizes the neurobiology of two complementary corticostriatal streams involved in **sound-to-rule** and **sound-to-reward** mapping. I test the premise that temporal lobe circuits are trained by the dual corticostriatal circuits to incorporate dimensional rules (via the sound-to-rule stream), multidimensional integration (via the sound-to-reward stream), ultimately leading to automatic, and abstract neural representations related to categories. Our systems neuroscience approach delineates the role of multiple, functionally distinct corticostriatal loops in speech and language processing and provides a scaffolding for evaluating the impact of striatal dysfunction in individuals with communication disorders

Early Career Award: Pascale Tremblay

Pascale Tremblay

Assistant Professor, Université Laval, Québec, Canada



Pascale Tremblay

received her Ph.D. in Communication Sciences and Disorders in 2009 from McGill University. The same year, with Dr. Steven Small, she co-founded the Society for the Neurobiology of Language. She organized the Society's first two meetings in Chicago (2009) and in San Diego (2010), and later remained involved with the Society

as elected Treasurer from 2013 to 2016. This year she is the local organizer for the 10th anniversary meeting.

After completing two postdoctoral periods at the University of Chicago and at the Università degli Studi di Trento in Italy, she joined the Speech-language pathology program at Université Laval in 2011 as an Assistant Professor. In 2014, she became the co-director of the CINQ, a group that promotes and facilitates brain imaging research at Université Laval through diverse scientific activities. She was promoted to Associate Professor in 2016. Dr. Tremblay has made significant contributions in the areas of speech motor control, speech perception and the "language connectome," using multimodal brain imaging and non-invasive brain stimulation. She has also made significant contributions to understanding the impact of aging on the aforementioned neurobiological processes and the neural structures with which they are associated. Dr. Tremblay's productivity has been impressive, with 50 publications including 41 peer-reviewed articles (19 of which published in the past three years). She has also been successful in obtaining research funds from foundations and several funding agencies in Canada and the United States.

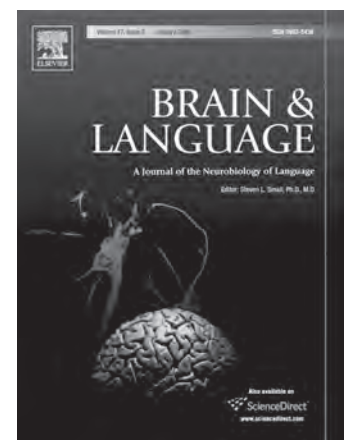
Dr. Tremblay's research interest stem from a view that speech and language are a highly evolved communicative behavior that rely on neurobiological mechanisms shared with a wide range of human behaviors. Dr. Tremblay has a strong research interest in uncovering and identifying the manner in which generalized neural functions engage specialized mechanisms associated with the flexible and complex variations that give each behavior its own identity.

Studying the Aging of Speech Functions

Friday, August 17, 9:55 – 10:15 am, Room 2000C

Chair: Karen Emmorey, San Diego State University

The ability to produce and perceive speech forms the building blocks of human communication. The complexity of the neural networks that support speech functions, and its important ties with other functional systems, is increasingly recognized in the scientific community. Yet, despite the importance of speaking, communication and social interactions, little is known about the sensorimotor and cognitive mechanisms that underlie age-related changes in speech perception and production and how they affect communication and well-being. In this talk, I will present recent work from my lab that explored the organisation of the neural speech systems, and the impact of aging on speech functions using behavioural and multimodal brain imaging techniques. I will describe the neurobiological mechanisms that underlie these changes, focusing on neuroplasticity. I will also briefly touch on our recent work on singing as a modifier of normal aging. Understanding how the speech network evolve throughout the lifespan is a timely scientific challenge that holds implications for preventive medicine and rehabilitation.



Merit Awards

The Society for the Neurobiology of Language Abstract Merit Awards are given to the students and postdocs who submitted the highest ranked abstracts.

M. Florencia Assaneo New York University, USA

Florence Bouhali University of California, San Francisco, USA

Emilie McKinnon Medical University of South Carolina, USA

Travis White-Schwoch Northwestern University, USA

Honorable Mention

Lisa Bruckert Stanford University, USA

Seyedehrezvan Farahibozorg University of Cambridge and University of Oxford, UK

Sivan Jossinger Bar-Ilan University, Israel

Han Gyor Yi University of California, San Francisco, USA

Travel Awards

This year, the Society for the Neurobiology of Language granted 23 Travel Awards. The awards, funded by the National Institutes of Health (NIH), help to cover travel and registration costs for the 2018 Society for the Neurobiology of Language Meeting in Québec City.

Through the Travel Awards, SNL aims to encourage and foster the participation of junior scientists who are members of underrepresented groups.

The 2018 Travel Award winners are:

Beatriz Barragan Arizona State University, USA

Mahsa Barzy University of Kent, UK

Jennifer Chesters Oxford University, UK

Jessica de Leon University of California, San Francisco, USA

Heather Dial The University of Texas at Austin, USA

Giulia Elli Johns Hopkins University, USA

Andrea Gajardo Vidal University College London, UK

Sandra Gisbert-Muñoz Universidad del País Vasco, Spain

Brenda Guerrero Texas A&M International University, USA

Laura Gwilliams New York University, USA

Jungna Kim CUNY, USA

Jixing Li Cornell University, USA

Diego Lorca-Puls University College London, UK

Barbara Marebwa Medical University of South Carolina, USA

Suhail Matar New York University, USA

Meghan McGarry San Diego State University, USA

Andrea Olguin University of Cambridge, UK

Lorelei Phillip University of South Carolina, USA

Alexandra Reyes Texas A&M International University, USA

Marybel Robledo Gonzalez Children's Hospital Los Angeles, USA

Zed Sevcikova Sehyr San Diego State University, USA

Neelima Wagley University of Michigan, USA

Bradley White Gallaudet University, USA

Public Lecture

Wednesday, August 15, 6:30 - 7:45 pm, Room 2000C

Chairs: Pascale Tremblay and Steven Small

This year, for the first time, SNL will be hosting a public lecture on the neurobiology of language. The goal of this new initiative is to raise awareness to issues related to the neurobiology of language among the population of the host city, and to disseminate the products of research in our field to the general public.

This year's lecture will focus on the topic of language disorders in neurodegenerative disorders. Because this event is targeting the local population, **it will be offered in French**, the official language in Québec City. The lecture will feature two experts in neurodegenerative disorders, Dr. Robert Laforce and Dr. Joël Macoir.

Au-delà de la mémoire: Comprendre les troubles qui affectent le langage dans la démence

[Beyond memory: understanding language disorders in dementia]



Neurodegenerative disorders constitute a silent epidemic that is threatening the world's population health. Although these diseases are most often described in terms of their impact on the memory and motor systems, they are also frequently associated with speech and language disorders, a lesser known, but very important aspect of these diseases, and one that has a huge impact on the quality of life of the patients. Early

screening of speech and language disorders is key to treating these symptoms, as well as raising the awareness of the patients and their families about these disorders and how to deal with them. In this lecture, the issue of language disorders in dementia will be discussed from a dual perspective, neurology and speech-language pathology, to offer a comprehensive overview of the phenomenon and related issues.



Robert Laforce, PhD, MD

Neurologist and Neuropsychologist
Associate Professor
Faculty of Medicine
Université Laval
Clinique Interdisciplinaire de Mémoire, CHU de Québec



Noémie Auclair-Ouellet, PhD

Speech-Language Pathologist,
Assistant Professor, School of Communication Sciences & Disorders, McGill University,
Centre for Research on Brain, Language and Music (CRBLM)

This event is organized by SNL, in collaboration with the CINQ, the CERVO Brain Research Foundation and the Québec City Convention Centre.



Consortium
d'imagerie en neurosciences
et santé mentale de Québec



CENTRE
DES CONGRÈS
DE QUÉBEC

Attendee Resources

ATM

There are two ATMs within the Convention Centre. They are located near the main entrance at 1000 boul. (Banque Scotia and Desjardins). The two nearest ATMs outside of the Convention Centre are a BMO, located in Hotel Palace Royal (400 m – 4 min walk), 775 Avenue Honore-Mercier, Quebec, QC G1R6A5, and an ATM at “Caisse Populaire Desjardins” (500 m – 5 min walk), 550 Rue Saint-Jean, Québec, QC G1R 3C6. In addition, there are several ATMs located in nearby financial institutions.

Abstracts

The full text of poster and slide abstracts can be found in the SNL 2018 Abstracts Book, which can be downloaded in PDF format from www.neurolang.org.

Audio-Visual

An LCD projector (e.g., for PowerPoint presentations) will be provided in Room 2000C; however, computers are NOT provided. Presenters must bring their own computers and set them up BEFORE the start of the session in which they are presenting. Presenters must arrive at Room 2000C a minimum of 30 minutes before their talk.

Business Center

The Business Center is located on Level 3 of the Québec City Convention Centre.

Business Meeting

The SNL Business Meeting is Saturday, August 18th at 4:45 pm. All SNL members are encouraged to attend. This is your opportunity to hear about SNL, ask questions, and give feedback.

Certificate of Attendance

To receive a Certificate of Attendance, please visit the Registration Desk. If you require any changes, we will be happy to email or mail a copy after the meeting (info@neurolang.org).

Childcare

Thanks to generous funding from the National Institutes of Health, SNL is pleased to offer free onsite childcare as part of the 2018 meeting! Childcare will allow you to enjoy the scientific program and time with colleagues, while the little ones create their own fun memories in Québec City.

This year, we have contracted with the highly recommended La Garderie Mobile, a Québec-based provider of professional child care services. La Garderie Mobile has a reputation for experience and professionalism. Activities will include age appropriate arts and crafts, educational activities, interactive games, and much more!

Childcare will be offered free of charge for children 0-12 years of age. Spaces are limited and will be filled on a first-come, first-served basis.

Childcare is in Room 2104. To reserve a spot, please see the Registration Desk.

Childcare Schedule

Thursday, August 16th, 8:30 am – 5:45 pm

Friday, August 17th, 8:15 am – 6:45 pm

Saturday, August 18th, 8:15 am – 5:45 pm

Code of Conduct

The Society for the Neurobiology of Language is committed to providing a safe and professional environment during our annual meeting. All attendees are expected to conduct themselves in a professional manner. It is unlawful to harass any person or employee because of that person's gender, sexual orientation or race. In addition, we require that all questions and comments to speakers and poster presenters be respectful and collegial. Verbal aggression will not be tolerated.

Contact Us

To contact us onsite, visit the Registration Desk, or send an email to info@neurolang.org. We will respond to your email at our earliest opportunity.

Copying, Printing and Office Supplies

A Business Center is located on Level 3 of the Convention Centre. The Business Center has photocopying and printing services, as well as internet workstations and cell phone charging stations. Computers are also available in the Hall 2000 Foyer.

Disclaimer

The SNL Program Committee reserves the right to make changes to the meeting program at any time without notice. This program was correct at the time of printing.

Exhibits

All Exhibits are located in Hall 2000.

Exhibit Hours

Thursday, August 16, 8:00 am – 5:00 pm

Friday, August 17, 8:00 am – 6:30 pm

Saturday, August 18, 8:00 am – 3:30 pm

Food Service

The Convention Centre is part of a complex that hosts two restaurants, Le Subtil and La Prep. In addition, light meals are available at Le Lounge restaurant and the Petit Café. A convenience store is also located in the complex. See the Restaurant section below for more information.

Complimentary food and beverage service is available to all registered attendees at the times below. All food and beverage is served in Hall 2000.

Thursday

Continental Breakfast, 7:45 – 8:45 am

Coffee Break, 10:15 – 10:45 am

Afternoon Coffee, 3:05 – 3:35 pm

Opening Night Reception, 6:30 - 9:30 pm (offsite)

Friday

Continental Breakfast, 7:30 – 8:30 am

Coffee Break, 10:30 – 11:00 am

Afternoon Coffee, 3:00 – 3:30 pm

Social Hour and Celebration, 4:45 - 6:30 pm

Saturday

Continental Breakfast, 7:30 – 8:30 am

Coffee Break, 10:30 – 11:00 am

Afternoon Coffee, 3:00 – 3:30 pm

Future Meetings

SNL 2019 will be held August 20 - 22 in Helsinki, Finland.

Guest Policy

Guests are allowed complimentary entry into one SNL session (for the purpose of seeing the poster or slide of the person they are a guest of). Guests are welcome to attend the Opening Night Reception.

Guests must register at the SNL Registration Desk upon arrival and must be accompanied by the SNL attendee. Guests must wear a badge for entrance into the session they are attending.

Interpreters

We are very pleased to provide an ASL interpreter service this year. Should you request assistance, please visit the Registration Desk.

Society for the Neurobiology of Language

Internet Access

Internet access is free throughout the Québec City Convention Centre. Free WiFi is also available in the Desjardins Promenade outside the Centre.

Lost & Found

Please check with the SNL Registration Desk for lost and found items.

Meeting Rooms

All general sessions (Keynotes, Award Talks, Slides, Slams, and the Panel Discussion) will be held in Room 2000C. Posters will be presented in Room 2000AB.

Messages

A bulletin board will be available for messages and job postings near the SNL Registration Desk.

Mobile Phones

Attendees are asked to silence their mobile phones when in sessions.

Musée de la Civilisation

Upon presentation of your SNL badge, receive a 15% discount from August 16th through 18th to visit the Musée de la Civilisation de Québec, 16, rue de la Barricade, Québec (QC) G1K 8W9 Canada. You can either walk to the museum or take a taxi or a city bus.

Name Badges

For security purposes, all attendees must wear their name badges to all sessions and social functions. Entrance into sessions is restricted to registered attendees only. If you misplace your name badge, please go to the Registration Desk for a replacement.

Parking

A pedestrian tunnel links the Québec City Convention Centre to four indoor parking lots. The lots are managed by Indigo and Société Parc-Auto du Québec.

Phone Charging Station

For your convenience, a phone charging station is located at the Registration Desk.

Poster Sessions

Posters are located in Room 2000AB. Poster Slam Sessions are located in Room 2000C.

Public Transportation

Get around safely and sustainably with Réseau de transport de la Capitale (RTC), Québec City's public transit system. The cost for one bus ride is \$3.5 CAD. You can pay with exact change when you board the bus, or you can buy a pass that allows for unlimited travel on weekends or for five consecutive days—a very handy way to get around the city during the meeting.

There is an RTC office right across from the Convention Centre on 884 rue Saint-Joachim where you can purchase tickets and passes and gather information.

To get to the airport by bus, take Bus Route #78 offered by Réseau de transport de la Capitale (RTC), which serves the Québec City Jean Lesage International Airport, Monday through Friday (in the early morning from the terminus Les Saules and in the late afternoon to the terminus Les Saules).

Given the Convention Centre's terrific location amidst major hotels and steps away from Old Québec, walking is always a great active transportation option.

Registration

The SNL Registration Desk is located in Hall 2000 at the Québec City Convention Centre. The Registration Desk hours are:

Thursday, August 16, 7:00 am – 5:45 pm

Friday, August 17, 7:00 am – 6:30 pm

Saturday, August 18, 7:30 am – 5:30 pm

Restaurants in Québec City

Québec City is quite the foodie's paradise. The Convention Centre is just minutes away from dozens of restaurants of every kind and price range. Home to French restaurants, microbreweries, bistros, sidewalk cafés and much more, the city has earned an outstanding reputation for its innovative cuisine, fine regional products, and creative artisans and chefs.

The Convention Centre is part of a complex that has two restaurants, Le Subtil and La Prep, as well as a convenience store. In addition, light meals are available at Le Lounge restaurant and the Petit Café.

During the lunch break on Thursday, the SAGA Nomade food-truck, which is associated with the prestigious La Sagamité restaurant will be available on the Promenade Desjardins (in front of the Centre's main entrance). The food-truck features popular French Canadian cuisine, including:

- **Poutine** This popular poutine is garnished with thyme confit guinea fowl, gouda grain, onion crisp and mushroom mayonnaise.
- **Elk Burger** Served with Oka cheese, onion confit and

spicy mayonnaise.

- **Deer Burrito** Garnished with mozzarella cheese, chopped salad and fresh tomatoes.
- **Bison Sandwich** Homemade smoked bison sandwich with melting Swiss cheese and truffle mayonnaise.

If you'd like to go out for lunch, but want to keep it relatively quick, we have negotiated special rates at La Scala and Café Sirocco, two popular restaurants that are within walking distance from the Convention Centre. Both are located nearby Cartier Avenue, one of the most popular streets in Québec City. Cartier Avenue is a small street with shops and restaurants that are praised by locals and visitors alike. Both La Scala and Café Sirocco have agreed to make sure that you can be in and out in an hour or less to be back in time for the meeting!

2 km from the Convention Center, Nicky Sushi is offering SNL attendees a 10% discount upon presentation of your SNL badge. Nicky Sushi is located at 311, chemin de la Canardière, Limoilou, G1L 2V1, Québec, QC.

Shipping

To ship your poster or other items home from the meeting, ask for the Concierge, located on the 3rd floor of the Québec City Convention Centre.

Sightseeing and Guided Tours of Québec City

The Concierge, located on Level 3 of the Québec City Convention Centre, can help you with making arrangements for sightseeing and guided tours, as well as recommend restaurants and shows.

Smoking

Smoking, including the use of e-cigarettes, is not permitted inside the Québec City Convention Centre. According to the provincial law, you may not smoke within nine metres of the door to a public place where smoking is usually forbidden. This rule also applies near the windows and air-intake ducts of these places.

Social Events

Opening Night Reception at the Musée national des beaux-arts du Québec

Join your colleagues on Thursday, August 16 at 6:30 pm for an elegant evening of food, drinks and stimulating conversation against the backdrop of one of Canada's premier collections of fine art. The Musée national des beaux-arts du Québec is a short, picturesque stroll from the Québec City Convention Centre.

You can walk from the Convention Centre to the Museum. The distance is 1.4 KM, about 15 minutes.

You can also take a bus to the Museum. The fastest

itinerary would be to board Bus #11 at the Convention Centre, which will take you right to the Museum.

For guests needing extra assistance in getting to the event, please contact the SNL Registration Desk.

Friday Evening Social Hour

Attendees are invited to enjoy a special Social Hour in Room 2000AB during the Friday evening poster session.

Social Media

Join the SNL discussion on Twitter!

Follow @SNLmtg for meeting information.

Follow SNL colleagues (like @kemmorey1)

Tag meeting-related tweets with #snlmtg18

Join in the conversation by searching for tweets tagged #snlmtg18

Speakers

Please report to Room 2000C at least thirty minutes before the start of your session. Upon request at the Registration Desk, a speaker ready-room with a computer will be made available for testing your presentation. See Audio-Visual.

Taxi

Taxis can be used to get around the city. The cost is the same whether you call the company or hail a cab from the street. From the YQB terminal to downtown Québec City or from downtown Québec City to YQB, a taxi ride will cost approximately \$34.25 CAD (≈\$28 USD, 22 Euros).

The following is a list of some of the taxi companies that serve both the airport and the city:

Taxi Coop Québec (418-525-5191)

Taxi Coop Sainte-Foy-Sillery (418-653-7777)

Taxi Laurier (418-651-2727)

Uber

Uber is available within Québec City, as well as at Québec City Jean Lesage International Airport.

Sponsors

The Society for the Neurobiology of Language thanks the following companies for their support of our 2018 meeting. Please visit our exhibitors in the Room 2000AB.

National Institutes of Health Major Sponsor

The 10th meeting of the Society for Neurobiology of Language is generously supported by the National Institutes of Health (R13 grant #DC011445). The NIH has been supporting SNL meetings by sponsoring travel grants to under-represented minorities, daycare services, sign language interpreting services and more, thus enhancing the accessibility of the meetings to various audiences. We are extremely grateful to the NIH for its generous support of SNL meetings over the years.



Rogue Research Inc. Gold Sponsor

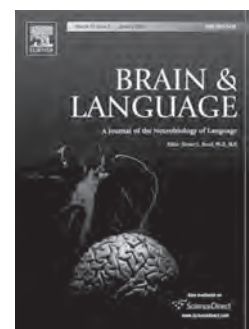


Rogue Research, developers of the Brainsight® family of neuronavigation products, has been providing neuroscience researchers with best in class tools for over 18 years. Brainsight TMS is used in more than 500 labs and is the most popular image-guided TMS system. Our new cTMS stimulator gives you more control over the pulse shape than any other TMS device available. Our Brainsight NIRS imaging system combines our navigator with our multi-modality friendly NIRS device for combined NIRS and EEG, EMG, MRI, MEG or tDCS.

Brain & Language (Elsevier) Award Sponsor

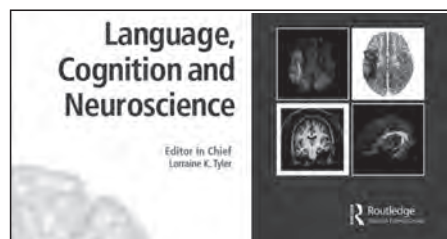
Sponsor of the SNL Early Career Awards

An interdisciplinary journal, *Brain & Language* focuses on the neurobiological mechanisms underlying human language. The journal covers the large variety of modern techniques in cognitive neuroscience, including lesion-based approaches as well as functional and structural brain imaging, electrophysiology, cellular and molecular neurobiology, genetics, and computational modeling. All articles must relate to human language and be relevant to an elaboration of its neurobiological basis. Along with an emphasis on neurobiology, journal articles are expected to take into account relevant data and theoretical perspectives from psychology and linguistics.



Language, Cognition and Neuroscience (Routledge) Award Sponsor

Sponsor of the SNL Distinguished Career Award



Language, Cognition and Neuroscience publishes high-quality papers taking an interdisciplinary approach to the study of brain and language, and promotes studies that integrate cognitive theoretical accounts of language and its neural bases. The Journal publishes both high quality, theoretically-motivated cognitive behavioural studies of language function, and papers which integrate cognitive theoretical accounts of language with its neurobiological foundations.

Local Sponsors

Québec City Business Destination



Québec City Business Destination is the city's official convention bureau. It aims to drive business tourism and facilitate North American and international conferences in Québec City. It provides support to individuals and groups interested in organizing conferences in the form of grants and consulting services. The Québec City Business Destination is in charge of the Québec City's Ambassadors' Club, founded in 1996, which offers one-stop consulting services that provide tools, resources, and financial support to local experts and industry leaders looking to organize North American and international conferences in Québec City. It brings together 150 influential and dedicated ambassadors who have organized a conference or have a viable project underway.

Quebec bio-imaging network (QBIN)



Founded in 2008, the **QBIN** is a provincial network of researchers, clinicians and students that promote and facilitate the development of high quality, innovative and collaborative research in the field of bioimaging in the province of Quebec. Funded by the "Fonds de la Recherche du Québec en Santé (FRQS)", the QBIN's mission is to support bioimaging research aimed at uncovering normal and pathological functioning in humans using human and animal models and through the development of innovative image acquisition techniques and advanced post-acquisition processing methods. The QBIN plays an important part in fostering bioimaging research in the province of Québec through various grant programs, student scholarships and support to scientific activities throughout the province including scientific talks, workshops and public lectures.

Université Laval, Office of the Vice Rector of Research and Innovation



Université Laval (UL) is the first French-language university in the Americas. Located in Québec City, UL hosts about 43,000 students each year, of which 25% are graduate students. UL is a carbon-neutral institution that is committed to sustainable development and contributing to community well-being. The UL Office of the Vice Rector of Research and Innovation bears executive responsibility for developing research and innovation activities and establishing general policies in matters of research and innovation. Finally, the Vice Rector sees to the sound management of intellectual property derived from the commercialization of university research.

Mrs. Hélène David, Minister responsible for Higher Education and for the Status of Women



Hélène David
Ministre responsable
de l'Enseignement supérieur
Ministre responsable de la Condition féminine
Députée d'Outremont



Québec's parliamentary system, which is based on cooperation between the legislative body (Parliament) and the executive body (government), is modelled on the British Westminster parliamentary system. The Premier is the head of the political party with the most elected members after a general election. The Government is composed of several departments and agencies. The mission of the **Ministère de l'enseignement supérieur**, [higher education], headed by Mrs David, one of the Government's most important department, under its constituting Act, is to carry out its activities in the areas of preschool, elementary and secondary school, college and university education, research, student financial assistance, and recreation and sports. Mrs. David is a member of the Québec Liberal party.



Sébastien Proulx
Ministre de l'Éducation, du Loisir et du Sport
Ministre responsable de la région
de la Capitale-Nationale
Député de Jean-Talton
Bureau de circonscription
2505, boulevard Laurier, bureau 260
Québec (Québec) G1V 2L2
Tél. : 418 682-8167 • Téléc. : 418 682-0794
Sebastien.Proulx.JETA@assnat.qc.ca



Faculté de médecine



CENTRE
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Consortium
d'imagerie en neurosciences
et santé mentale de Québec



André Drolet

Deputy for Jean-Lesage, member of the Quebec Liberal Party
Parliamentary Assistant to the Minister for Small and Medium Enterprises, Regulatory Streamlining and Regional Economic Development

Opening Night Reception

Thursday, August 16, 6:30 – 9:30 pm

Musée national des beaux-arts du Québec
179 Grande Allée Ouest
Québec (Québec) G1R 2H1, Canada

SNL invites you to our Opening Night Reception at the world-renowned Musée national des beaux-arts du Québec. Join your colleagues for an elegant evening of food, drinks and stimulating conversation against the backdrop of fine arts and Québec traditional music.

For our student and postdoctoral researchers, this year's reception will include a structured networking opportunity to develop lateral connections by meeting other students and postdocs. Look for the "Gotta Catch 'Em All: Scientist Edition" worksheet at the reception welcome table; all students and postdocs who complete it will receive a free SNL 10th anniversary notebook courtesy of the Québec Bio-Imaging Network.

Located in Québec City, a world heritage site, the Musée's four pavilions are situated in the heart of the magnificent National Battlefields Park: the Gérard Morisset pavilion (the original museum, 1933), the central pavilion (built in 1991), the Charles Baillairgé pavilion (a prison dating from 1867) and the new Pierre Lassonde pavilion, giving

the Musée a street-front presence on one of the city's main arteries, the Grande Allée. Designed by OMA New York in association with Provencher_Roy, this building enabled the Musée to nearly double its floor space and to display its contemporary art, design and Inuit art collections.

The reception will be hosted in the new Pierre Lassonde pavilion, located on the marvellous Grande Allée, which is the gateway to the Musée. The building's architecture is harmoniously tiered with generous exhibition spaces: six exhibition galleries for the display of post-1960 collections, two temporary exhibition galleries and three permanent exhibition galleries (contemporary art, Inuit art and decorative arts and design).

You can walk from the Convention Centre to the Museum. The distance is 1.4 KM, this should take you about 15 minutes. You can also take a bus to the Museum. The fastest itinerary would be to take bus #11 at the convention center, which will take you right to the Museum. For guests needing extra assistance getting to the event, please contact the SNL Registration Desk.

Friday Night Social Hour and 10th Anniversary Celebration

Friday, August 17, 4:45 – 6:30 pm, Room 2000AB

Join us in the foyer for some Prosecco and cake to celebrate the 10th anniversary of our Society's annual meeting, an exciting journey than began in Chicago in 2009.



Slide Sessions

Slide Session A

Thursday, August 16, 1:30 – 2:50 pm, Room 2000C

Chair: Manuel Carreiras

Speakers: M. Florencia Assaneo, Albert Costa, Han G. Yi, Jennifer Chesters

1:30 pm

A1 Spontaneous synchronization to speech reveals neural mechanisms facilitating language learning M. Florencia Assaneo¹, Pablo Ripolles¹, Joan Orpella^{2,3,4}, Ruth de Diego-Balaguer^{2,3,4,5}, David Poeppel⁶; ¹Department of Psychology, New York University, ²Cognition and Brain Plasticity Unit, IDIBELL, ³Department of Cognition, Development and Educational Psychology, University of Barcelona, ⁴Institute of Neuroscience, University of Barcelona, ⁵ICREA, ⁶Neuroscience Department, Max-Planck Institute for Empirical Aesthetics, Frankfurt

1:50 pm

A2 Active bilingualism as a cognitive reserve factor against cognitive decline Albert Costa^{1,2}, Marco Calabria¹, Mireia Hernández¹, Gabriele Cattaneo¹, Mariona Serra¹, Anna Suades³, Montserrat Juncadella³, Ramon Reñé³, Isabel Sala⁴, Alberto Lleó⁴, Jordi Ortiz-Gil⁵, Lidia Ugas⁵, Asunción Ávila⁶, Isabel Gómez Ruiz⁶, César Ávila⁷; ¹Center for Brain and Cognition, Pompeu Fabra University, Barcelona, Spain, ²Institució Catalana de Recerca i Estudis Avançats (ICREA), Barcelona, Spain, ³Hospital Universitari de Bellvitge, L'Hospitalet de Llobregat, Barcelona, Spain, ⁴Neurology Department, Hospital de la Santa Creu i Sant Pau, Barcelona, Spain, ⁵Hospital General de Granollers, Barcelona, Spain, ⁶Consorci Sanitari Integral, Barcelona, Spain, ⁷Departamento de Psicología Básica, Clínica y Psicobiología, Universitat Jaume I, Castelló de la Plana, Spain

2:10 pm

A3 Learning novel speech sounds reorganizes acoustic representations in the human superior temporal gyrus Han G. Yi¹, Matthew K. Leonard¹, Bharath Chandrasekaran², Kirill V. Nourski³, Matthew A. Howard III³, Edward F. Chang¹; ¹University of California, San Francisco, ²The University of Texas at Austin, ³The University of Iowa

2:30 pm

A4 Neural changes related to successful stutter reduction using transcranial direct current stimulation Jennifer Chesters¹, Riikka Mottonen², Kate E. Watkins¹; ¹Department of Experimental Psychology, University of Oxford, ²School of Psychology, University of Nottingham

Slide Session B

Friday, August 17, 1:40 – 3:00 pm, Room 2000C

Chair: Brenda Rapp

Speakers: Mante Nieuwland, Seyedehrezvan Farahibozorg, Laura Gwilliams, Beth Jefferies

1:40 pm

B1 Dissociable effects of prediction and integration during language comprehension: Evidence from a large-scale study using brain potentials Mante Nieuwland^{1,2}, Dale J. Barr³, Federica Bartolozzi^{1,2}, Simon Busch-Moreno⁴, Emily Darley⁵, David I. Donaldson⁶, Heather J. Ferguson⁷, Xiao Fu⁴, Evelien Heyselaar^{1,8}, Falk Huettig¹, E. Matthew Husband⁹, Aine Ito^{2,9}, Nina Kazanina⁵, Vita Kogan², Zdenko Kohút¹⁰, Eugenia Kulakova¹¹, Diane Mézière², Stephen Politzer-Ahles^{9,12}, Guillaume Rousselet³, Shirley-Ann Rueschemeyer¹⁰, Katrien Segaert⁸, Jyrki Tuomainen⁴, Sarah Von Grebmer Zu Wolfsturn⁵; ¹Max Planck Institute for Psycholinguistics, Nijmegen, the Netherlands, ²School of Philosophy, Psychology and Language Sciences, University of Edinburgh, UK, ³Institute of Neuroscience and Psychology, University of Glasgow, UK, ⁴Division of Psychology and Language Sciences, University College London, UK, ⁵School of Experimental Psychology, University of Bristol, UK, ⁶Psychology, Faculty of Natural Sciences, University of Stirling, UK, ⁷School of Psychology, University of Kent, Canterbury, UK, ⁸School of Psychology, University of Birmingham, UK, ⁹Faculty of Linguistics, Philology & Phonetics; University of Oxford, UK, ¹⁰Department of Psychology, University of York, UK, ¹¹Institute of Cognitive Neuroscience, University College London, UK, ¹²Department of Chinese and Bilingual Studies, the Hong Kong Polytechnic University, Kowloon, Hong Kong

2:00 pm

B2 Processor Hub Versus Integrator Hubs: Distinct Roles for Anterior Temporal Lobe and Angular Gyrus in Semantic Processing Seyedehrezvan Farahibozorg^{1,2}, Richard Henson¹, Anna Woollams³, Elisa Cooper¹, Gemma Evans⁴, Yuanyuan Chen¹, Karalyn Patterson¹, Olaf Hauk¹; ¹MRC Cognition and Brain Sciences Unit, University of Cambridge, ²Wellcome Centre For Integrative Neuroimaging, Nuffield Department of Clinical Neurosciences, University of Oxford, ³Neuroscience and Aphasia Research Unit, School of Psychological Sciences, University of Manchester, ⁴Department of Psychology, University of Chester

2:20 pm

B3 Parsing continuous speech into linguistic representations Laura Gwilliams^{1,2}, Jean-Rémi King^{1,3}, David Poeppel^{1,4}; ¹New York University, ²NYUAD Institute, ³Frankfurt Institute for Advanced Studies, ⁴Max-Planck-Institute

2:40 pm

B4 Individual differences in default mode connectivity relate to perceptually-coupled and decoupled modes of semantic retrieval: Functional consequences for comprehension and mind-wandering Beth Jefferies¹, Meichao Zhang¹, Nicola Savill², Daniel Margulies³, Jonathan Smallwood¹; ¹University of York, UK, ²York St John University, UK, ³CNRS, Institut du cerveau et de la moelle épinière (ICM), Paris

Slide Session C

Saturday, August 18, 11:00 am – 12:20 pm, Room 2000C

Chair: Marina Bedny

Speakers: Florence Bouhali, Emilie McKinnon, Katherine Travis, Travis White-Schwoch

11:00 am

C1 Distinct areas for the processing of graphemes and words in the left occipitotemporal cortex Florence Bouhali^{1,2,3,4,5}, Zoé Bézagu^{1,2,3,4}, Stanislas Dehaene^{6,7}, Laurent Cohen^{1,2,3,4,8}; ¹Inserm, U 1127, F-75013, Paris, France, ²CNRS, UMR 7225, F-75013, Paris, France, ³Sorbonne Universités, UPMC Univ Paris 06, UMR S 1127, F-75013, Paris, France., ⁴Institut du Cerveau et de la Moelle épinière, ICM, F-75013, Paris, France., ⁵University of California San Francisco (UCSF), San Francisco, CA 94143, ⁶Cognitive Neuroimaging Unit, CEA DRF/I2BM, INSERM, Université Paris-Sud, Université Paris-Saclay, NeuroSpin center, 91191 Gif/Yvette, France, ⁷Collège de France, 11 Place Marcelin Berthelot, 75005 Paris, France, ⁸AP-HP, Hôpital de la Pitié Salpêtrière, Fédération de Neurologie, F-75013, Paris, France

11:20 am

C2 Synergism between cortical damage and white matter disconnection contributes to aphasia severity Emilie McKinnon¹, Barbara Marebwa¹, Chris Rorden², Alexandra Basilakos², Ezequiel Gleichgerrcht¹, Julius Fridriksson², Leonardo Bonilha¹; ¹Medical University of South Carolina, ²University of South Carolina

11:40 am

C3 More than Myelin: Interrogating white matter tissue properties underlying receptive and expressive language abilities in 8 year old children Katherine Travis¹, Lisa Bruckett¹, Aviv A. Mezer², Michal Ben-Shachar³, Heidi M. Feldman¹; ¹Stanford University, ²The Hebrew University of Jerusalem, ³Bar Ilan University

12:00 pm

C4 Pre-school auditory processing predicts school-age reading achievement: A 4-year longitudinal study Travis White-Schwoch¹, Elaine C. Thompson¹, Silvia Bonacina¹, Jennifer Krizman¹, Trent Nicol¹, Ann R. Bradlow¹, Steven G. Zecker¹, Nina Kraus¹; ¹Northwestern University

National Science Foundation Funding

Saturday, August 18, 12:20 - 12:30 pm, Room 2000C

The National Science Foundation funds research related to the neurobiology of language through its Cognitive Neuroscience, Linguistics, Perception-Action-and-Cognition, Developmental Sciences and Science of Learning programs. Dr. Uri Hasson (Program Director, Cognitive Neuroscience) will present funding opportunities. Attendees are welcome to contact him in advance to arrange a meeting (uhasson@nsf.gov).

Poster Slam Schedule

Poster Slams provide a fast-paced and entertaining showcase for posters. Forty presenters have been invited to provide one-minute, one-slide overviews of their posters. Poster Slams take place just prior to the beginning of each poster session. Participants will present their Slam on the main stage (Room 2000C), ensuring effective exposure to the entire SNL audience. We envision that presenters will address an exciting or provocative finding, challenge current dogma, or highlight how their data or technique addresses current issues in the Neurobiology of Language. We encourage participants to think outside the box and use their one-minute, one-slide presentation in a novel and creative way to communicate their science.

Session	Date	Mandatory Briefing	Line-Up Time	Session Begins
Session A	Thursday, August 16	8:30 am	9:55 am	10:00 am
Session B	Thursday, August 16	1:15 pm	2:45 pm	2:50 pm
Session C	Friday, August 17	8:15 am	10:10 am	10:15 am
Session D	Friday, August 17	3:15 pm	4:25 pm	4:30 pm
Session E	Saturday, August 18	1:15 pm	2:40 pm	2:45 pm

Information for Slam Presenters

You must arrive at the main lecture hall (Room 2000C) for a short Mandatory Briefing at the designated time for your Slam Session (see above). At the Mandatory Briefing, SNL staff will meet you at the podium and explain the logistics of Slam sessions, including where to line up, use of the microphone, timing and so on. This is critical for the success of this fast-paced micro-session. Slam presenters will line up according to their presentation order at Line-Up Time (see above).

Poster Slam Sessions

For poster details, see "Poster Sessions" on page 29.

Poster Slam Session A

Thursday, August 16, 10:00 – 10:15 am, Room 2000C

Chair: Matt Davis

A5 Self-monitoring in L1 and L2 speech production: an MEG study *Sarah Bakst*

A21 How are visual words represented? Insights from EEG-based image reconstruction during reading *Shouyu Ling*

A26 Hierarchical syntactic structures modulate brain activity during morphological processing *Yohei Oseki*

A29 Inter-individual differences in predictive coding during language processing: the role of individual alpha frequency and idea density *Ina Bornkessel-Schlesewsky*

A49 Automatic speech analysis technology yields reproducible dysprosodic markers in Primary progressive aphasia *Naomi Nevler*

A57 Brain activation for spoken and sign language in infancy: Impact of experience in unimodal and bimodal bilinguals *Evelyne Mercure*

A63 The impoverished comprehension of non-native speech in noise *Esti Blanco-Elorrieta*

A64 Neurodevelopmental impact of early bilingual acquisition on children's syntactic processing *Neelima Wagley*

Poster Slam Session B

Thursday, August 16, 2:50 – 3:05 pm, Room 2000C

Chair: David Corina

B4 Syllable sequencing into words: A computational model of speech production *Meropi Topalidou*

B7 Neural representation of phonemic categories in tonotopic auditory cortex *Deborah F. Levy*

B14 Neural oscillations track changes in speech rate shown by MEG adaptation and perceptual after-effects *Matthew H Davis*

B22 fMRI evidence for binding theory during anaphora resolution in naturalistic listening *Jixing Li*

B27 Spatial attention and perceptual-motor representations of demonstratives: a fast fMRI study using naturalistic auditory stimuli *Roberta Rocca*

B51 Neural plasticity of speech and reading networks associated with language learning *Kshipra Gurunandan*

B59 Picture naming in American Sign Language: an ERP study of the effects of iconicity and alignment *Meghan McGarry*

Poster Slam Session C

Friday, August 17, 10:15 – 10:30 am, Room 2000C

Chair: Mairéad MacSweeney

C3 The Role of Primary Motor Cortex in Second Language Word Recognition *Beatriz Barragan*

C4 Cortico-striatal tractography: Structural connectivity of the left inferior frontal gyrus along the rostrocaudal length of the putamen *Simone Renée Roberts*

C8 Brain activity predicts future learning potential in intensive second language listening training *Mayumi Kajiura*

C14 The neurobiology of Braille reading beyond the VWFA *Judy Sein Kim*

C36 Using local neural heterogeneity to both predict and track in language recovery *Jeremy Purcell*

C39 Neuromodulatory effects of individualized tDCS on MEG dynamics in chronic post-stroke aphasia *Priyanka Shah-Basak*

C40 Syntactic and thematic mechanisms of subject-verb integration in aphasia and typical sentence comprehension *Jennifer Mack*

C48 Reading efficiency is associated with fractional anisotropy, but not with myelin content, in the superior cerebellar peduncles. *Lisa Bruckert*

C61 Worse than useless: traditional ERP baseline correction reduces power through self-contradiction *Phillip M. Alday*

Poster Slam Session D

Friday, August 17, 4:30 – 4:45 pm, Room 2000C

Chair: Angela Grant

D5 Speech rate is associated with cerebellar white matter in persistent developmental stuttering *Sivan Jossinger*

D6 Ageing does not affect excitability of articulatory motor cortex during speech perception *Helen E Nuttall*

D7 Sensorimotor adaptation in speech is sensitive to vowel targets of altered feedback *Hardik Kothare*

D11 Electrophysiological Effects of Bilingualism and Aging on Working Memory *Cassandra Morrison*

D15 Impaired Incidental Phonetic Learning in People with Aphasia *Christopher Heffner*

D16 Lexical tone classification in frontal and posterior regions using fNIRS *Benjamin Zinszer*

D20 Measuring the N400 during naturalistic conversation: An EEG hyperscanning study *Caitriona Douglas*

D23 Examining plasticity of the reading network: insights from deaf readers of Chinese *Junfei Liu*

Poster Slam Session E

Saturday, August 18, 2:45 – 3:00 pm, Room 2000C

Chair: Patti Adank

E15 Human cortical encoding of a discrete temporal landmark for processing syllables in continuous speech *Yulia Oganian*

E16 Structural connectivity across stimulation-defined critical language areas *Brian H. Silverstein*

E25 Interaction of morphological and long-distance dependency processing: MEG evidence *Suhail Matar*

E41 Classification of fMRI Data in Aphasia Based on Task, Time Point, and Subject *E. Susan Duncan*

E43 Aphasia therapy results in differential changes in functional connectivity depending on treatment response *Jeffrey P. Johnson*

E44 Continuous theta burst stimulation over right pars triangularis facilitates naming abilities in chronic post-stroke aphasia by enhancing phonological access *Denise Y. Harvey*

E45 Neural Correlates of Impaired Emotional Prosody Recognition in Acute Right Hemisphere Stroke *Shannon M. Sheppard*

E46 Bilingualism delays age of symptom onset in the language variant but not the amnesic variant of Alzheimer's dementia *Jessica de Leon*

Poster Schedule

Poster sessions are scheduled from Thursday, August 16 through Saturday, August 18. Poster sessions are one hour and forty-five minutes long. Presenting authors are expected to be at their poster during the entire session. Posters are located in Room 2000AB. You may post your materials on your assigned board at the scheduled "Setup Begins" time shown below. Please note that any posters not removed by the "Teardown Complete" time will be discarded. Do not leave personal items in the poster room.

Date & Time	Posters	Topics
Poster Session A	A1 - A4	Control, Selection, and Executive Processes
Thursday, August 16	A5 - A10	Speech Motor Control and Sensorimotor Integration
10:15 am - 12:00 pm	A11 - A13	Phonology and Phonological Working Memory
Room 2000AB	A14 - A19	Perception: Speech Perception and Audiovisual Integration
	A20	Writing and Spelling
	A21 - A25	Perception: Orthographic and Other Visual Processes
	A26 - A28	Grammar: Morphology
	A29 - A34	Grammar: Syntax
	A35 - A41	Meaning: Lexical Semantics
	A42 - A46	Meaning: Discourse and Pragmatics
	A47 - A48	Language Therapy
Setup Begins: 8:00 am	A49 - A56	Language Disorders
Teardown Complete: 1:00 pm	A57 - A61	Language Development
	A63 - A70	Multilingualism
Poster Session B	B1 - B3	Control, Selection, and Executive Processes
Thursday, August 16	B4 - B6	Speech Motor Control and Sensorimotor Integration
3:05 - 4:50 pm	B7 - B13	Perception: Speech Perception and Audiovisual Integration
Room 2000AB	B14 - B17	Perception: Auditory
	B18 - B21	Perception: Orthographic and Other Visual Processes
	B22 - B26	Grammar: Syntax
	B27 - B34	Meaning: Lexical Semantics
	B35 - B36	Language Therapy
	B37 - B45	Language Disorders
	B46 - B50	Language Development
	B51 - B57	Multilingualism
Setup Begins: 1:00 pm	B59 - B62	Signed Language and Gesture
Teardown Complete: 5:30 pm	B63 - B66	Methods
	B67 - B70	Computational Approaches
Poster Session C	C1 - C2	Control, Selection, and Executive Processes
Friday, August 17	C3 - C4	Speech Motor Control and Sensorimotor Integration
10:30 am - 12:15 pm	C5 - C7	Phonology and Phonological Working Memory
Room 2000AB	C8 - C13	Perception: Speech Perception and Audiovisual Integration
	C14 - C17	Perception: Orthographic and Other Visual Processes
	C18 - C24	Grammar: Syntax
	C25 - C31	Meaning: Lexical Semantics
	C32 - C35	Meaning: Prosody, Social and Emotional Processes
	C36 - C38	Language Therapy
	C39 - C47	Language Disorders
	C48 - C52	Language Development
Setup Begins: 8:00 am	C53 - C60	Multilingualism
Teardown Complete: 1:00 pm	C61 - C65	Methods
	C66 - C67	Computational Approaches

Poster Session D Friday, August 17 4:45 – 6:30 pm <i>Room 2000AB</i>	D1 - D4	Control, Selection, and Executive Processes
	D5 - D10	Speech Motor Control and Sensorimotor Integration
	D11 - D14	Phonology and Phonological Working Memory
	D15 - D19	Perception: Speech Perception and Audiovisual Integration
	D20 - D22	Perception: Auditory
	D23 - D24	Writing and Spelling
	D25 - D27	Grammar: Morphology
	D28 - D32	Grammar: Syntax
	D33 - D41	Meaning: Lexical Semantics
	D42 - D43	Meaning: Combinatorial Semantics
	D44 - D47	Meaning: Discourse and Pragmatics
	D48	Language Therapy
	D49 - D56	Language Disorders
	D57 - D64	Multilingualism
	D65 - D67	Signed Language and Gesture
	D68 - D70	Computational Approaches
Setup Begins: 1:00 pm Teardown Complete: 7:00 pm		
Poster Session E Saturday, August 18 3:00 – 4:45 pm <i>Room 2000AB</i>	E1 - E4	Control, Selection, and Executive Processes
	E5 - E7	Phonology and Phonological Working Memory
	E8 - E14	Perception: Speech Perception and Audiovisual Integration
	E15 - E19	Perception: Auditory
	E20 - E24	Perception: Orthographic and Other Visual Processes
	E25 - E27	Grammar: Syntax
	E28 - E34	Meaning: Lexical Semantics
	E35 - E36	Meaning: Combinatorial Semantics
	E37 - E40	Meaning: Discourse and Pragmatics
	E41 - E42	Language Therapy
	E43 - E51	Language Disorders
	E52 - E55	Language Development
	E57 - E64	Multilingualism
	E65	History of the Neurobiology of Language
Setup Begins: 8:00 am Teardown Complete: 5:30 pm		

Satellite Symposium

The Bilingual Brain - A lifelong perspective

Wednesday, August 15, 8:00 am – 4:00 pm, Reception Following
 Domaine Cataraqui, 2141, chemin Saint-Louis, Québec City, QC., G1T 1 P9

This first SNL official symposium reflects on language learning across the lifespan and how our experience with language and multiple language learning informs questions of brain plasticity and organization. The symposium is organized by the Center for Research on Brain, Language, and Music (CRBLM) and by the Québec Brain Imaging Consortium (CINQ). For more information, please go to <http://www.cinq.ulaval.ca/Bilingual-Brain>.

Poster Sessions

Poster Session A

Thursday, August 16, 10:15 am – 12:00 pm, Room 2000AB

Control, Selection, and Executive Processes

A1 Assessment of Bilingual Language Context on Cognitive Aging Angelique M. Blackburn¹, Nayeli Rojas¹, Nayeli Rivas¹, Alejandra Santos¹, Alexandra Reyes¹, Brenda Guerrero¹; ¹Texas A&M International University

A2 Early Detection of Alzheimer's Disease: Combining EEG and Pupillometry to Assess Automatic and Controlled Language Processing Dynamics Nicole Amichetti¹, Elena Festa¹, William Heindel¹; ¹Brown University

A3 How attention relates to consecutive interpreting performance: the importance of processing rather than storage Junyan Wei^{1,2}, Yulei Gao¹, Shuyi Liu¹, Chuanbin Ni¹; ¹Nanjing Normal University, ²McGill University

A4 Lexical access and cognitive control in healthy bilinguals and bilinguals with aphasia: Evidence from the category generation task Leela A Rao¹, Claudia Penaloza¹, Swathi Kiran¹; ¹Boston University

Speech Motor Control and Sensorimotor Integration

A5 Self-monitoring in L1 and L2 speech production: an MEG study Sarah Bakst¹, Caroline A. Niziolek¹; ¹University of Wisconsin–Madison

A6 Neuroanatomical Correlates of Foreign Speech Production in Musician and Non-Musician Bilinguals Paul-Noel Rousseau^{1,4}, Lucía Vaquero^{2,3}, Virginia Penhune^{2,4}, Denise Klein^{1,4}; ¹McGill University, ²Concordia University, ³University of Barcelona, ⁴CRBLM - The Centre for Research on Brain, Language and Music

A7 Intracranial Neurophysiology of Auditory Feedback Control During Speech Production Muge Ozker Sertel¹, Margaret A McAlister¹, Patricia Dugan¹, Daniel Friedman¹, Werner Doyle², Orrin Devinsky¹, Adeen Flinker¹; ¹Department of Neurology, New York University School of Medicine, ²Department of Neurosurgery, New York University School of Medicine

A8 Quantification and parcellation of posterior inferior frontal cortex connections to auditory association and supplementary motor area targets Vatche Baboyan¹, Gregory Hickok¹, Nitin Tandon^{2,3}; ¹Department of Cognitive Sciences, University of California, Irvine, ²Vivian L Smith Department of Neurosurgery, University of Texas Medical School at Houston, ³Memorial Hermann Hospital, Texas Medical Center, Houston

A9 What can we learn about reading from a lollipop? Exploring the role of sensorimotor feedback on the speed of reading in adults and children Jacqueline Cummine¹, Angela Cullum¹, Daniel Aalto^{1,2}, Cassidy Fleming¹, Alesha Reed¹, Amber Ostevik¹, William Hodgetts^{1,2}; ¹Communication Sciences and Disorders, Faculty of Rehabilitation Medicine, University of Alberta, ²Institute for Reconstructive Science in Medicine

A10 Effects of HD-tDCS Current Intensity on Vocal Pitch Motor Control Dirk B. Den Ouden¹, Danielle Fahey¹, Taylor McDonald¹, Janelle Rocktashel¹, Roozbeh Behroozmand¹; ¹University of South Carolina

Phonology and Phonological Working Memory

A11 Adaptive paradigms for mapping phonological regions in individual participants Melodie Yen¹, Andrew T. DeMarco², Stephen M. Wilson¹; ¹Vanderbilt University Medical Center, ²Georgetown University

A12 The impact of alphabetic script acquisition on Cantonese phoneme judgement: a combined behavioral and ERP study Yubin Zhang¹, Jessica Ka Yui Leung¹, Chotiga Pattamadilok², Dustin Kai Yan Lau¹, Mehdi Bakhtiar¹, Caicai Zhang^{1,3}; ¹The Hong Kong Polytechnic University, ²Laboratoire Parole et Langage, CNRS, ³Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences

A13 Fast phonotopic mapping with oscillation-based fMRI – Proof of concept Mikkel Wallentin^{1,2}, Torben Ellegaard Lund², Camilla M. Andersen¹, Roberta Rocca¹; ¹Department of Linguistics, Cognitive Science and Semiotics, Aarhus University, ²Center of Functionally Integrated Neuroscience, Aarhus University Hospital

Perception: Speech Perception and Audiovisual Integration

A14 Articulatory suppression enhances visual discrimination of speech Matthew Masapollo¹, Frank Guenther^{1,2}; ¹Department of Speech, Language, & Hearing Sciences, Boston University, ²Department of Biomedical Engineering, Boston University

A15 Audiovisual speech integration in cochlear implant users: A behavioral and optical neuroimaging study Iliza Butera¹, Rene Gifford¹, Mark Wallace¹; ¹Vanderbilt University

A16 Audiovisual facilitation in speech depends on musical background – An ERP study. Marzieh Sorati¹, Dawn Marie Behne¹; ¹Norwegian University of Science and Technology (NTNU)

A17 Aging diminishes auditory activation for single spoken words: evidence from fMRI Chad Rogers¹, Michael S. Jones¹, Sarah M. McConkey¹, Brent Spehar¹, Nichole Runge¹, Kristin J. Van Engen¹, Mitchell S. Sommers¹, Jonathan E. Peelle¹; ¹Washington University in St. Louis

A18 The role of left vs. right superior temporal gyrus in speech perception: An fMRI-guided TMS study *Aurora I Ramos Nunez¹, Qiuhai Yue², Siavash Pasalar², Randi C Martin²;*
¹College of Coastal Georgia, ²Rice University

A19 Neural orienting response does not differ between hearing own and other names in autistic individuals with language impairments *Sophie Schwartz¹, Le Wang¹, Barbara Shinn-Cunningham¹, Helen Tager-Flusberg¹;*
¹Boston University

Writing and Spelling

A20 Word-Level Spelling Performance in Patients with Parietal versus Temporal-Frontal Lobe Lesions: Implications for the Dual Lexica Model *Venugopal Balasuramanian^{1,2}, Maureen Costello-Yacano³, Maha Alders⁴, Judith Koebli¹;*
¹School of Health and Medical Sciences, Seton Hall University, South Orange, New Jersey, ²SCORE Lab, Johns Hopkins School of Medicine, ³LaSalle University, Philadelphia, PA, USA, ⁴King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia

Perception: Orthographic and Other Visual Processes

A21 How are visual words represented? Insights from EEG-based image reconstruction during reading *Shouyu Ling¹, Andy C.H. Lee^{1,2}, Blair C. Armstrong^{1,3}, Adrian Nestor¹;*
¹University of Toronto Scarborough, ²Rotman Research Institute, ³BCBL, Basque Center on Cognition, Brain, and Language

A22 The left lateralization of print-specific negativity depends on visual attention in competitive stimuli. *Tomoki Uno^{1,2}, Takashi Katakura³, Tetuko Kasai⁴;*
¹Graduate School of Education, Hokkaido University, ²Japan Society for Promotion of Science Research Fellow, ³School of Education, Hokkaido University, ⁴Faculty of Education, Hokkaido University

A23 White matter tract of orthographic recognition and its functional plasticity: Evidence from patients and congenital blinds *Ke Wang¹, Xiaonan Li¹, Ruiwang Huang², Junhua Ding¹, Luping Song³, Zaizhu Han¹;*
¹State Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University, ²School of Psychology, South China Normal University, Guangzhou, China, ³College and China Rehabilitation Research Center, Capital Medical University, Beijing, China

A24 Neural oscillations as a brain signature of statistical learning? *Louisa Bogaerts¹, Ayelet N. Landau¹, Craig G. Richter², Ram Frost^{1,2,3};*
¹The Hebrew University of Jerusalem, Israel, ²Basque center on Cognition, Brain and Language, ³Haskins Laboratories

A25 Masked identity priming survives the rotation of individual letters within words: An ERP investigation *Marta Vergara-Martinez¹, Maria Fernandez-Lopez¹, Ana Marce¹, Manuel Perea¹;*
¹Universitat de València

Grammar: Morphology

A26 Hierarchical syntactic structures modulate brain activity during morphological processing *Yohei Oseki^{1,2}, Alec Marantz²;*
¹Waseda University, ²New York University

A27 Perception of Morphologically Complex Words Using Single-Trial EEG *Laurie Lawyer¹;*
¹University of Essex

A28 Morpheme-based word production is associated with ventral-stream white matter pathways *Maya Yablonski¹, Benjamin Menashe¹, Michal Ben-Shachar¹;*
¹Bar-Ilan University

Grammar: Syntax

A29 Inter-individual differences in predictive coding during language processing: the role of individual alpha frequency and idea density *Ina Bornkessel-Schlesewsky¹, Caitlin Howlett¹, Isabella Sharrad¹, Erica Wilkinson¹, Matthias Schlewsky¹;*
¹University of South Australia

A30 Improving pre-operative mapping of language in clinical fMRI using assessment of grammar *Monika Polczynska¹, Kevin Japardi¹, Susan Curtiss¹, Teena Moody¹, Christopher Benjamin², Andrew Cho¹, Celia Vigil¹, Taylor Kuhn¹, Michael Jones¹, Susan Bookheimer¹;*
¹University of California, Los Angeles, ²Yale University

A31 Experimental L2 Semantics/Pragmatics of Scalar Implicature: An ERP Study *Euiyon Cho¹, Wonil Chung¹, Myung-Kwan Park¹;*
¹Dongguk University

A32 Dissociating prediction and constituent-structure during sentence-structure building *Murielle Fabre¹, Shohini Bhattachali¹, John Hale¹, Christophe Pallier²;*
¹Cornell University, ²INSERM-CEA Cognitive Neuro-imaging Unit

A33 Neural Correlates of Sentence Processing in Acute Stroke Patients *Sigfus Kristinsson¹, Brielle Stark¹, Grigori Yourganov¹, Alexandra Basilakos¹, Helga Thors¹, Julious Fridriksson¹;*
¹Center for the Study of Aphasia Recovery at the University of South Carolina

A34 Differentiating three different types of double subjects/Nominatives in Korean: An ERP-based study *Kiyong Choi¹, Daeho Chung², Wonil Chung³, Say Young Kim², Bum-Sik Park³, Myung-Kwan Park³;*
¹Kwangwoon University, ²Hanyang University, ³Dongguk University

Meaning: Lexical Semantics

A35 The neural correlates of the interaction between phonological and semantic processing in Reading Chinese characters *Min Dang¹, Rui Zhang¹, Xiangyang Zhang¹, Xiaojuan Wang¹;*
¹Shaanxi Normal University

A36 Pictures produce orthographic neighborhood effects, but only following familiarization *Gabriela Meade^{1,2}, Phillip J. Holcomb¹;*
¹San Diego State University, ²University of California, San Diego

A37 Lexical access and integration in context: a fixation-related fMRI study of the word predictability and word frequency interaction during sentence comprehension Jie-Li Tsai¹, Guan-Huei Lee¹, Chia-Ying Lee², Chung-I Erica Su¹, Tzu-Hsuan Lin¹; ¹National Chengchi University, Taiwan, ²Academia Sinica, Taipei, Taiwan

A38 The dynamics of lexico-semantic access in the aging brain Rocío López Zunini¹, Martijn Baart^{1,2}, Arthur Samuel^{1,3,4}, Blair Armstrong^{1,5}; ¹BCBL, Basque Center on Cognition, Brain and Language, ²Tilburg University, ³IKERBASQUE, Basque Foundation for Science, ⁴Stony Brook University, ⁵University of Toronto, Scarborough

A39 Learning scientific concepts with metaphor: An ERP study Vicky Tzuyin Lai¹, Nyssa Bulkes¹; ¹Department of Psychology, University of Arizona

A40 The neural network of action language: a comparative meta-analysis Melody Courson^{1,2}, Pascale Tremblay^{1,2}; ¹Université Laval, Faculty of Medicine, Department of Rehabilitation, Québec, Canada, ²CERVO research center, Québec, Canada

A41 Effects of stimulus modality on semantic processing Joshua Troche¹, Jamie Reilly²; ¹University of Central Florida, ²Temple University

Meaning: Discourse and Pragmatics

A42 The exceptional role of the first person: Evidence from natural story processing Matthias Schlesewsky¹, Ingmar Brilmayer², Alexandra Werner³, Beatrice Primus², Ina Bornkessel-Schlesewsky¹; ¹Centre for Cognitive and Systems Neuroscience, School of Psychology, Social Work and Social Policy, University of South Australia, Adelaide, Australia, ²Department of German Language and Literature I, University of Cologne, Cologne, Germany, ³Department of English and Linguistics, Johannes Gutenberg-University, Mainz, Germany

A43 Gray and white matter correlates of indirect speech act comprehension in behavioral variant frontotemporal degeneration Meghan Healey¹, Murray Grossman¹; ¹University of Pennsylvania

A44 Individual Differences in Text Comprehension: A Resting-State Functional Connectivity Study Anya Yu¹, Benjamin Schloss¹, Chun-Ting Hsu¹, Ping Li¹; ¹Department of Psychology, The Pennsylvania State University

A45 Brain-behaviour correlations of angry, dancing, thoughtful triangles: Heider & Simmel in the scanner Brea Chouinard¹, Tamara Vanderwal², Louise Gallagher¹, Clare Kelly¹; ¹Trinity College Dublin, ²Yale Child Study Centre

A46 The modulation of the N400 effect: reference and dispositional affect Veena D. Dwivedi¹, Janahan Selvanayagam¹; ¹Brock University

Language Therapy

A47 Augmented reading outcomes for people with alexia following treatment paired with transcranial direct current stimulation. Grace S. Lee¹, Esther S. Kim¹; ¹University of Alberta

A48 Left-lateralizing tDCS for aphasia: a randomized, double-blind, placebo-controlled clinical trial Elizabeth H Lacey^{1,2}, Fama Mackenzie E¹, Anbari Zainab¹, Turkeltaub Peter E^{1,2}; ¹Department of Neurology, Georgetown University, ²MedStar National Rehabilitation Hospital

Language Disorders

A49 Automatic speech analysis technology yields reproducible dysprosodic markers in Primary progressive aphasia Naomi Neveler¹, Sharon Ash¹, David J Irwin¹, Molly Ungrady¹, Mark Liberman¹, Murray Grossman¹; ¹University of Pennsylvania

A50 Neuroanatomical substrates of lexical retrieval Janina Wilmskoetter^{1,2}, Julius Fridriksson³, Ezequiel Gleichgerrcht², Brielle Stark³, John Delgazio², Gregory Hickok⁴, Kenneth Vaden⁵, Argye Hillis⁶, Chris Rorden⁷, Leonardo Bonilha²; ¹Department of Health Sciences and Research, College of Health Professions, Medical University of South Carolina, Charleston, ²Department of Neurology, College of Medicine, Medical University of South Carolina, Charleston, ³Department of Communication Sciences and Disorders, University of South Carolina, Columbia, ⁴Department of Cognitive Sciences, University of California, Irvine, ⁵Department of Otolaryngology-Head and Neck Surgery, College of Medicine, Medical University of South Carolina, Charleston, ⁶Department of Neurology, Johns Hopkins University, ⁷Department of Psychology, University of South Carolina, Columbia

A51 Testing embodied cognition with a large premotor cortex lesion - a single case study Hanna Gauvin^{1,2}, Kori Ramajoo^{1,2}, Sonia Brownsett^{1,2}, Katie McMahon^{3,4}, Greig de Zubizaray¹; ¹Faculty of Health and Institute of Health and Biomedical Innovation, Queensland University of Technology, Brisbane, QLD, Australia, ²School of Psychology and Counselling, Queensland University of Technology, Brisbane, QLD, Australia hanna.gauvin@qut.edu.au, ³School of Clinical Sciences, Queensland University of Technology, Brisbane, QLD, Australia, ⁴Herston Imaging Research Facility, Royal Brisbane & Womens Hospital, Brisbane, QLD, Australia

A52 Bringing Resting-state connectivity into the Operating Room: Comparing task and resting-state functional connectivity in presurgical language mapping Daniel A. Di Giovanni¹, D. Louis Collins¹, Denise Klein¹; ¹McGill University

A53 Impaired Phoneme Discrimination and Word Comprehension Due to Acute Left Superior Temporal Gyrus Dysfunction Luke Adams¹, Kevin Kim¹, Lynsey Keator¹, Amy Wright¹, Sadhvi Saxena¹, Corianne Rogalsky²,

Greg Hickok³, Argye Hillis¹; ¹Johns Hopkins University School of Medicine, ²Arizona State University, ³University of California Irvine

A55 Beyond left hemisphere versus right hemisphere in aphasic language recovery: Evidence from effective connectivity during lexical-semantic processing Erin Meier¹, Jeffrey Johnson¹, Yue Pan¹, Swathi Kiran¹; ¹Boston University

A56 Individual Pseudo-Lesioning to Assess Secondary White Matter Connectivity Changes in Post-Stroke Aphasia Natalie Busby¹, Ajay D. Halai¹, Geoffrey J.M. Parker^{1,2}, Matthew A. Lambon Ralph¹; ¹University of Manchester, ²Bioxydyn Ltd.

Language Development

A57 Brain activation for spoken and sign language in infancy: Impact of experience in unimodal and bimodal bilinguals Evelynne Mercure¹, Samuel Evans², Laura Pirazzoli³, Laura Goldberg¹, Harriet Bowden-Howl^{1,4}, Kimberley Coulson^{1,5}, Sarah Lloyd-Fox³, Indie Beedie¹, Mark H. Johnson^{3,6}, Mairead MacSweeney¹; ¹University College London, ²University of Westminster, ³Birkbeck - University of London, ⁴University of Plymouth, ⁵University of Hertfordshire, ⁶University of Cambridge

A58 Pinpointing the neuroanatomical correlates of foreign language learning ability and musical aptitude Sabrina Turker^{1,2}, Annemarie Seither-Preisler^{1,3}, Susanne M. Reiterer⁵, Annemarie Peltzer-Karpf², Peter Schneider⁵; ¹Centre for Systematic Musicology, University of Graz, ²Department of English and American Studies, University of Graz, ³BioTechMed Graz, Austria, ⁴Department of Linguistics, University of Vienna, ⁵University Hospital Heidelberg, Department for Neuroradiology, Heidelberg, Germany

A59 Socioeconomic Status (SES) differences in children's N400 responses when learning new words from linguistic context. Yvonne Ralph¹, Julie M. Schneider¹, Mandy J. Maguire¹; ¹University of Texas at Dallas

A60 What can neuroscience teach us about the origin of language? Oren Poliva¹; ¹Bangor University

A61 An Investigation of the Relationship between Reading and Speech Production in Children and Adolescents Cassidy Fleming¹, Angela Cullum¹, Jacqueline Cummine^{1,2}; ¹Faculty of Rehabilitation Medicine, University of Alberta, ²Neuroscience and Mental Health Institute, University of Alberta

Multilingualism

A63 The impoverished comprehension of non-native speech in noise Esti Blanco-Elorrieta¹, Nai Ding², Liina Pyllkkänen^{1,3}, David Poeppel^{1,4}; ¹New York University, ²Zhejiang University, ³NYUAD Institute, ⁴Max Planck Institute

A64 Neurodevelopmental impact of early bilingual acquisition on children's syntactic processing Neelima Wagley¹, Frank Hu¹, Alisa Baron², James Booth³, Teresa Satterfield¹, Lisa M. Bedore², Ioulia Kovelman¹; ¹University of Michigan, ²University of Texas - Austin, ³Vanderbilt University

A65 How spatial-temporal metaphors shape time conceptualisation in bilinguals Yang LI¹, Guillaume Thierry¹; ¹School of Psychology, Bangor University

A66 The impact of successive bi-/multilingualism on the cognitive abilities of healthy older speakers: Evidence from Norwegian academics. Valantis Fyndanis¹, Sarah Cameron¹, David Caplan², Christina Davril³, Nina Hagen Kaldhol¹, Monica Knoph¹, Hanne Gram Simonsen¹, Ane Theimann¹, Charalambos Themistocleous^{4,5}, Thomas Bak⁶; ¹University of Oslo, Oslo, Norway, ²Massachusetts General Hospital, Boston, USA, ³University of Freiburg, Freiburg, Germany, ⁴Johns Hopkins University, Baltimore, USA, ⁵University of Gothenburg, Gothenburg, Sweden, ⁶University of Edinburgh, Edinburgh, UK

A67 Neural Correlates of Spoken Word Processing in Korean-Chinese-English Trilinguals: An fMRI Study Say Young Kim¹, Fan Cao²; ¹Hanyang University, Seoul, Korea, ²Michigan State University, MI, USA

A68 Bilingual Recruitment of Inhibitory Control While Translating Jamie Renna¹, Yazmin Medina¹, Ksenija Marinkovic^{1,2}, Katherine J. Midgley¹, Phillip J. Holcomb¹; ¹San Diego State University, ²University of California, San Diego

A69 Neural processing of sound in bilinguals: The influence of early-life dual language exposure on auditory processing in adults Erika Skoel¹; ¹University of Connecticut

A70 Age of acquisition of L2 affects alpha power during bilingual speech in noise processing Angela Grant^{1,2}, Kristina Coulter^{1,2}, Shanna Kousaie^{2,3}, Annie C. Gilbert^{2,3}, Shari Baum^{2,3}, Vincent Gracco^{2,3,4}, Denise Klein^{2,3}, Debra Titone^{2,3}, Natalie Phillips^{1,2}; ¹Concordia University, ²Centre for Research on Brain, Language, and Music, ³McGill University, ⁴Yale University

Poster Session B

Thursday, August 16, 3:05 – 4:50 pm, Room 2000AB

Control, Selection, and Executive Processes

B1 The interplay between interference control and L2 proficiency in L2 auditory sentence comprehension in the presence of verbal and non-verbal masking Jungna Kim¹, Klara Marton¹, Brett A. Martin¹, Loraine K. Obler¹; ¹The CUNY Graduate Center

B2 Lexical selection and the elusive role of the left IFG: an fMRI study Hanna Gauvin^{1,2}, Katie McMahon^{3,4}, Greig de Zubicaray¹; ¹Faculty of Health and Institute of Health and Biomedical Innovation, Queensland University of Technology, Brisbane, QLD, Australia, ²School of Psychology and

Counselling, Queensland University of Technology, Brisbane, QLD, Australia, ³School of Clinical Sciences, Queensland University of Technology, Brisbane, QLD, Australia, ⁴Herston Imaging Research Facility, Royal Brisbane & Womens Hospital, Brisbane, QLD, Australia

B3 Interference interacts with prediction during language comprehension: Implications for predictive coding Pia Schoknecht¹, Dietmar Roehm¹, Ina Bornkessel-Schlesewsky²; ¹University of Salzburg, ²University of South Australia

Speech Motor Control and Sensorimotor Integration

B4 Syllable sequencing into words: A computational model of speech production Meropi Topalidou¹, Emre Neftci¹, Gregory Hickok¹; ¹Department of Cognitive Sciences, University of California Irvine

B5 Changes in sensorimotor control of speech observed in oscillations of the EEG mu rhythm Tim Saltuklaroglu¹, Ashley Harkrider¹, Tiffani Kittilstved¹, David Thornton¹, David Jenson¹; ¹University of Tennessee Health Sciences Center

B6 Planning to manipulate virtual objects elicits activation of motor-related brain activity: evidence from ERPs in a CAVE automatic virtual environment Cheryl French-Mestre^{1,2}, Ana Zappa¹, Dierdre Bolger¹, Jean Marie Pergandi¹, Pierre Mallet^{1,2}, Anne-Sophie Dubarry^{1,2}, Daniel Mestre^{1,2}; ¹Aix-Marseille Univ, ²Centre National de Recherche Scientifique

Perception: Speech Perception and Audiovisual Integration

B7 Neural representation of phonemic categories in tonotopic auditory cortex Deborah F. Levy¹, Stephen M. Wilson¹; ¹Vanderbilt University Medical Center

B8 Neural coding schemes for lexically-driven prediction in superior temporal cortex Ediz Sohoglu¹, Matthew Davis¹; ¹University of Cambridge

B9 Language-driven anticipatory eye-movements in naturalistic environments Evelien Heyselaar¹, David Peeters^{1,2}, Peter Hagoort^{1,2}; ¹Max Planck Institute for Psycholinguistics, The Netherlands, ²Radboud University, Donders Institute for Brain, Cognition, and Behaviour, The Netherlands

B10 Early neural reconfiguration predicts future sound-to-word learning success Gangyi Feng¹, Bharath Chandrasekaran², Patrick C.M. Wong¹; ¹The Chinese University of Hong Kong, ²The University of Texas at Austin

B11 Neural processing of hyperarticulated speech in second language learners Yang Zhang¹, Keita Tanaka², Yue Wang³, Dawn Behne⁴; ¹University of Minnesota, ²Tokyo Denki University, ³Simon Fraser University, ⁴Norwegian University of Science and Technology

B12 Cortical Tracking of Predictive Coding Features in Continuous Speech Hugo Weissbart¹, Katerina Kandylaki², Tobias Reichenbach¹; ¹Imperial College London, ²University of Maastricht

B13 Testing the engagement of dorsal stream motor areas during the perception of phonemes, words, and environmental sounds Kelly Michaelis¹, Andrei Medvedev^{1,2}, Peter Turkeltaub^{1,2,3}; ¹Georgetown University Interdisciplinary Program in Neuroscience, ²Georgetown University Medical Center, Department of Neurology, ³Medstar National Rehabilitation Hospital

Perception: Auditory

B14 Neural oscillations track changes in speech rate shown by MEG adaptation and perceptual after-effects Matthew H Davis¹, Lucy J. MacGregor¹, Helen Blank^{1,2}, Stephen A. Engel³, Saskia Helbling^{1,4}, Ediz Sohoglu¹, Leonhard Waschke⁵; ¹University of Cambridge, UK, ²University Medical Center Hamburg-Eppendorf, Hamburg, Germany, ³University of Minnesota, Minneapolis, ⁴Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany, ⁵University of Lübeck, Germany

B15 Transcutaneous vagus nerve stimulation enhances non-native speech categorization Fernando Llanos¹, Jacie R. McHaney¹, Matthew K. Leonard^{2,3}, William L. Schuerman², Han G. Yi², Bharath Chandrasekaran^{1,4,5,6,7}; ¹Department of Communication Sciences and Disorders, The University of Texas at Austin, ²Neurological Surgery, University of California, San Francisco, ³Weill Institute for Neurosciences, University of California, San Francisco, ⁴Institute for Mental Health Research, The University of Texas at Austin, ⁵Department of Psychology, The University of Texas at Austin, ⁶Department of Linguistics, The University of Texas at Austin, ⁷Institute for Neuroscience, The University of Texas at Austin

B16 The relation between speech-in-noise and vocal pitch recognition abilities in high-functioning autism spectrum disorder Stefanie Schelinski^{1,2}, Katharina von Kriegstein^{1,2}; ¹Max Planck Institute for Human Cognitive and Brain Sciences, ²Technical University of Dresden

B17 Bilinguals and monolinguals hear the world differently Jennifer Krizman¹, Adam Tierney^{1,2}, Trent Nicol¹, Nina Kraus¹; ¹Northwestern University, ²Now at Birkbeck, University of London

Perception: Orthographic and Other Visual Processes

B18 How the brain learns to read in environments with high-risk of illiteracy: an fNIRS study of reading development in rural Côte d'Ivoire Kaja Jasinska^{1,2}, Axel Blahoua³, Fabrice Tanoh⁴; ¹University of Delaware, USA, ²Haskins Laboratories, USA, ³Centre d'Action et de Recherche pour la Paix, Abidjan, Côte d'Ivoire, ⁴Université Félix Houphouët-Boigny, Abidjan, Côte d'Ivoire

B19 Decoding of word frequency from pre-stimulus MEG activation in a repetition priming paradigm

Susanne Eisenhauer¹, Benjamin Gagl^{1,2}, Christian J. Fiebach^{1,2}; ¹Goethe University Frankfurt, Germany, ²Center for Individual Development and Adaptive Education of Children at Risk (IDeA), Frankfurt, Germany

B20 Encoding of abstract letter identity in deaf readers: the role of lexical feedback

Eva Gutierrez-Sigut^{1,2}, Marta Vergara-Martínez¹, Manuel Perea^{1,3}; ¹University of Valencia, ²University College London, ³Basque Center on Cognition, Brain, and Language

B21 Localization of dual stream contributions to sublexical and lexical-semantic reading: a multivariate lesion-symptom mapping study of left hemisphere stroke survivors

J. Vivian Dickens¹, Mackenzie E. Fama¹, Andrew T. DeMarco¹, Elizabeth H. Lacey^{1,2}, Rhonda B. Friedman¹, Peter E. Turkeltaub^{1,2}; ¹Georgetown University Medical Center, Washington, DC, USA, ²MedStar National Rehabilitation Hospital, Washington, DC, USA

Grammar: Syntax

B22 fMRI evidence for binding theory during anaphora resolution in naturalistic listening

Jixing Li¹, Murielle Fabre¹, Wen-Ming Luh¹, John Hale¹; ¹Cornell University

B23 Voice (mis)match in Korean right dislocation constructions: An ERP study

Bum-Sik Park¹, Kiyong Choi², Daeho Chung³, Wonil Chung¹, Say Young Kim³, Myung-Kwan Park¹; ¹Dongguk University, ²Kwangju University, ³Hanyang University

B24 From Desynchronization to Synchronization: A Lifespan Shift of Alpha-Band Power During Sentence Comprehension

Caroline Beese¹, Benedict Vassileiou¹, Angela D. Friederici¹, Lars Meyer¹; ¹Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany

B25 Korean Negative Polarity Items: Evidence from ERP responses

Sanghoun Song¹, Wonil Chung², Eunjeong Oh³, Myung-Kwan Park², Euhee Kim⁴; ¹Incheon National University, ²Dongguk University, ³Sangmyung University, ⁴Shinhan University

B26 Neural signature of Cross-Linguistic Influence in L2 Learning

Hiroshi Ishinabe^{1,2}, Hyeonjeong Jeong^{3,4}, Shigeyuki Ikeda³, Takayuki Nozawa⁵, Kohei Sakaki¹, Motoaki Sugiura^{3,6}, Ryuta Kawashima³; ¹Graduate School of Medicine, Tohoku University, ²Department of Social Care, Higashiosaka Junior College, ³Institute of Development, Aging and Cancer, Tohoku University, ⁴Graduate School of International Cultural Studies, Tohoku University, ⁵Research Center for the Earth Inclusive Sensing Empathizing with Silent Voices, Tokyo Institute of Technology, ⁶International Research Institute of Disaster Science, Tohoku University

Meaning: Lexical Semantics

B27 Spatial attention and perceptual-motor representations of demonstratives: a fast fMRI study using naturalistic auditory stimuli

Roberta Rocca¹, Torben E. Lund², Marlene Staib¹, Kristian Tylén^{1,3}, Kenny R. Coventry⁴, Mikkel Wallentin^{1,2,3}; ¹Department of Linguistics, Cognitive Science and Semiotics, Aarhus University, Denmark, ²Center of Functionally Integrative Neuroscience (CFIN), Aarhus University, Denmark, ³The Interacting Minds Centre, Aarhus University, Denmark, ⁴School of Psychology, University of East Anglia, United Kingdom

B29 Dynamic Conceptome: Semantic hubs and spokes form functional modules in the whole-brain graphs with intra-/inter-modular connectivity

Seyedehrezvan Farahibozorg^{1,2}, Olaf Hauk¹; ¹MRC Cognition and Brain Sciences Unit, University of Cambridge, ²Wellcome Centre For Integrative Neuroimaging, Nuffield Department of Clinical Neurosciences, University of Oxford

B30 Neural correlates of selection and inhibition of semantic features: an fMRI study of Chinese classifiers

Chu-Hsuan Kuo¹, Min Liu¹, Hsuan-Chih Chen², Tai-Li Chou¹; ¹National Taiwan University, ²Chinese University of Hong Kong

B32 Do experiential semantic features predict automatic semantic priming in verbs?

Taylor Kalmus¹, Lisa Conant², Colin Humphries², Jeffrey Binder², Leonardo Fernandino²; ¹Carroll University, ²Medical College of Wisconsin

B33 The neural basis of concrete noun and verb meanings in congenitally blind individuals: An MVPA fMRI study

Giulia Elli¹, Rashi Pant¹, Rebecca Achtman², Marina Bedny¹; ¹Johns Hopkins University, ²DePaul University

B34 Not all “visual knowledge” are created equal: Blind individuals’ judgments about animal appearance.

Judy Sein Kim¹, Giulia Elli¹, Erin Brush¹, Marina Bedny¹; ¹Johns Hopkins University

Language Therapy

B35 Effects of auricular vagus nerve stimulation on novel orthography acquisition: a pilot study

Tracy Centanni¹, Vishal Thakkar¹, Alexis Jefferson¹, Carly Stacey¹, Navid Khodaparast²; ¹Texas Christian University, Fort Worth, TX, USA, ²Nexon MedSystems Inc., Dallas, TX, USA

B36 French version of the Phonological Component Analysis: Preliminary results with three participants

Michele Masson-Trottier^{1,2}, Karine Marcotte^{1,2}, Carol Leonard^{3,5,6}, Elizabeth Rochon^{3,4,5,7}, Ana Inés Ansaldo^{1,2}; ¹Centre de recherche de l'Institut de gériatrie de Montréal, ²École d'orthophonie et d'audiologie, Université de Montréal, ³Department of Speech-Language Pathology, Faculty of Medicine, University of Toronto, ⁴Toronto Rehabilitation Institute – University Health Network, ⁵Heart and Stroke Foundation, Canadian Partnership for Stroke Recovery,

⁶Audiology and Speech-Language Pathology Program, School of Rehabilitation Sciences, University of Ottawa, ⁷Rehabilitation Sciences Institute, University of Toronto

Language Disorders

B37 Leukoaraiaosis Predicts Naming Outcomes after Treatment in Aphasia Lisa Johnson¹, Alexandra Basilakos¹, Brielle C. Stark¹, Sigfus Kristinsson¹, Bonilha Leonardo², Chris Rorden³, Julius Fridriksson¹; ¹University of South Carolina Department of Communication Sciences and Disorders, ²Medical University of South Carolina, ³University of South Carolina Department of Psychology

B38 Oscillatory dynamics during lexico-semantic retrieval: Evidence for neuroplasticity of language in patients with left-hemisphere temporal tumors Shuang Geng¹, Lucia Amoruso¹, Polina Timofeeva¹, Santiago Gil Robles², Íñigo Pomposo², Nicola Molinaro^{1,3}, Manuel Carreiras^{1,3}; ¹BCBL, Basque Center on Cognition, Brain and Language, San Sebastian, Spain, ²Neurosurgery Cruces University Hospital. BioCruces, Bilbao, Spain, ³Ikerbasque, Basque Foundation for Science, Bilbao Spain

B39 Predictive Neural Correlates of Action Naming and Recovery in Chronic Stroke Patients Lynsey M Keator¹, Shannon M Sheppard¹, Kevin Kim¹, Sadhvi Saxena¹, Amy Wright¹, Rajani Sebastian¹, Argye E Hillis^{1,2,3}; ¹Department of Neurology, Johns Hopkins University School of Medicine, ²Department of Physical Medicine and Rehabilitation, Johns Hopkins University School of Medicine, ³Department of Cognitive Science, Krieger School of Arts and Sciences, Johns Hopkins University

B40 Functional modularity supports treatment-induced recovery in chronic aphasia Yuan Tao¹, Brenda Rapp¹; ¹Johns Hopkins University

B41 Receptive but not expressive language relates to age-equivalent of auditory event-related potentials in children with autism spectrum disorder Elaine Kwok¹, Edwin Dovigi², Janis Oram Cardy¹; ¹University of Western Ontario, ²Rush University Medical College

B42 Neurofunctional correlates of overall language function in aphasia Jillian M. Lucanie¹, Sarah M. Schneck¹, Dana K. Eriksson², Melodie Yen¹, Deborah F. Levy¹, Ian Quillen¹, L. Taylor Davis¹, Wayneho Kam¹, Howard S. Kirshner¹, Michael de Riesthal¹, Stephen M. Wilson¹; ¹Vanderbilt University Medical Center, ²University of Arizona

B43 Predicting naming responses based on pre-articulatory electrical activity in individuals with aphasia Janina Wilmskoetter^{1,2}, John Delgazio², Lorelei Phillip³, Roozbeh Behroozmand³, Ezequiel Gleichgerricht², Julius Fridriksson³, Leonardo Bonilha²; ¹Department of Health Sciences and Research, College of Health Professions, Medical University of South Carolina, Charleston, SC, ²Department of Neurology, College of Medicine, Medical University of South Carolina, Charleston, SC, ³Department of Communication Sciences and Disorders, University of South Carolina, Columbia, SC

B44 Data-driven Aphasia Sub-Typing using Lesion-Symptom Mapping and Community Detection Analysis Jon-Frederick Landrigan¹, Daniel Mirman²; ¹Drexel University, ²University of Alabama at Birmingham

B45 The progression of leukoaraiaosis and the integrity of perilesional tissue predict changes in language abilities Alexandra Basilakos¹, Lisa Johnson¹, Leonardo Bonilha², Brielle Stark¹, Chris Rorden¹, Grigori Yourganov¹, Julius Fridriksson¹; ¹University of South Carolina, ²Medical University of South Carolina

Language Development

B46 Developmental differences in the neural mechanisms supporting natural sentence comprehension Julie Schneider¹, Mandy Maguire¹; ¹Callier Center for Communication Disorders, University of Texas at Dallas

B47 Does grapheme knowledge or phonological awareness determine detailed speech perception in preliterate children? Anne Bauch¹, Claudia K. Friedrich¹, Ulrike Schild¹; ¹University of Tuebingen, Germany

B48 Tracking the time course of statistical learning in pre-lingual infants: online evidence from neural entrainment Laura Batterink^{1,2}, Dawoon Choi³, Alexis Black³, Ken Paller¹, Janet Werker³; ¹Northwestern University, ²University of Western Ontario, ³University of British Columbia

B49 Better phase-locking to song than speech in difficult listening conditions Christina Vanden Bosch der Nederlanden¹, Marc Joannis¹, Jessica Grahn¹; ¹Western University

B50 Exploring 9-year-old children's brain activity during verbal irony processing using Event-Related Potentials Hugo Corona-Hernández¹, Gloria Avecilla-Ramírez¹, Karina Hess Zimmermann¹, Silvia Ruiz-Tovar¹, Lucero Díaz-Calzada¹, AV Carrillo-Pena², Josué Romero-Turrubiates¹; ¹Autonomous University of Queretaro, ²Neurobiology Institute, National Autonomous University of Mexico

Multilingualism

B51 Neural plasticity of speech and reading networks associated with language learning Kshipra Gurunandan¹, Manuel Carreiras^{1,2}, Pedro M. Paz-Alonso¹; ¹BCBL - Basque Center on Cognition, Brain and Language, San Sebastián, Spain, ²Ikerbasque - Basque Foundation for Science, Bilbao, Spain

B52 Network selectively responding to bilingual sentence comprehension vary as a function of the L2 age of acquisition Sandra Gisbert-Muñoz¹, Ileana Quiñones¹, Manuel Carreiras^{1,2}; ¹Basque Center on Cognition, Brain, and Language, 20009 Donostia, Spain, ²Ikerbasque, Basque Foundation for Science, 48013 Bilbao, Spain

B53 The Impact of Semantic Context and Age of Acquisition on Bilingual Speech Perception in Noise: An ERP Study Kristina Coulter^{1,4}, Annie C. Gilbert^{2,4}, Shanna Kousaie^{2,4}, Shari Baum^{2,4}, Vincent Gracco^{2,3,4}, Denise Klein^{2,4}, Debra Titone^{2,4}, Natalie A. Phillips^{1,4}; ¹Concordia University, ²McGill University, ³Yale University, ⁴Centre for Research on Brain, Language, and Music

B54 Bilingual language control: MEG evidence of inhibition in word production Judy D. Zhu^{1,2}, Robert A. Seymour^{1,2,3}, Paul F. Sowman^{1,2}; ¹ARC Centre of Excellence in Cognition and its Disorders, Sydney, Australia, ²Macquarie University, Sydney, Australia, ³Aston University, Birmingham, United Kingdom

B55 Short exposure to a foreign accent impacts subsequent cognitive processes. Alice Foucart^{1,2}, Hernando Santamaría-García^{3,4,5}, Robert J. Hartsuiker¹; ¹Ghent University, ²Universitat Pompeu Fabra, ³Pontificia Universidad Javeriana, ⁴Instituto de Neurociencia Cognitiva y Traslacional, ⁵Hospital San Ignacio

B56 ERP correlates of picking up new foreign-language words in dialogue Kristin Lemhöfer¹, Julia Egger^{1,2}, James McQueen¹; ¹Radboud University, ²Max-Planck-Institute for Psycholinguistics

B57 Is semantic processing language-dependent? Evidence from bilingual aphasia Marco Calabria¹, Nicholas Grunden^{1,2}, Mariona Serra¹, Carmen García Sánchez², Albert Costa^{1,3}; ¹Center for Brain and Cognition, Pompeu Fabra University, Barcelona, Spain, ²Hospital de la Santa Creu i Sant Pau, Barcelona, Spain, ³Institució Catalana de Recerca i Estudis Avançats (ICREA), Spain

Signed Language and Gesture

B59 Picture naming in American Sign Language: an ERP study of the effects of iconicity and alignment Meghan McGarry¹, Megan Mott¹, Katherine J. Midgley¹, Phillip J. Holcomb¹, Karen Emmorey¹; ¹San Diego State University

B60 Sensorimotor EEG indicates deaf signers simulate tactile properties of ASL signs when reading English Lauren Berger¹, Lorna C. Quandt¹; ¹Gallaudet University

B61 Examining the effect of language experience on plasticity in superior temporal cortices in deaf and hearing signers Tae Twomey¹, Dafydd Waters¹, Cathy Price¹, Mairéad MacSweeney¹; ¹University College London

B62 Single-parameter phonological priming in American Sign Language: An ERP study Natasja Massa¹, Gabriela Meade^{1,2}, Brittany Lee^{1,2}, Katherine J. Midgley¹, Phillip J. Holcomb¹, Karen Emmorey¹; ¹San Diego State University, ²University of California, San Diego

Methods

B63 The superior longitudinal fasciculi or refining the fronto-parietal connectivity patterns between specific language regions Elise B. Barbeau^{1,2,3}, Denise Klein^{1,2,3}, Michael Petrides^{1,2,3,4}; ¹Cognitive Neuroscience Unit, Montreal Neurological Institute, McGill University, Montreal, ²Department of Neurology and Neurosurgery, McGill University, Montreal, ³Center for Research on Brain, Language and Music (CRBLM), Montreal, ⁴Department of Psychology, McGill University, Montreal

B64 Restricted Diffusion Imaging (RDI) as a measure of axonal packing density in children and adults Anthony Dick¹, Dea Garic¹; ¹Florida International University

B65 An in-depth examination of the morphology of two sulci of the frontal language zone and comparisons to cytoarchitectonic Brodmann areas 44 and 45 Trisanna Sprung-Much^{1,2}, Michael Petrides^{1,2}; ¹McGill University, ²Montreal Neurological Institute

B66 How distributed processing produces false negatives in voxel-based lesion-deficit analyses Andrea Gajardo-Vidal¹, Diego Lorca-Puls¹, Jennifer Crinion¹, Jittrachote White¹, Mohamed Seghier^{1,2}, Alex Leff¹, Thomas Hope¹, Philipp Ludersdorfer¹, David Green¹, Howard Bowman^{3,4}, Cathy Price¹; ¹University College London, ²Emirates College for Advanced Education, ³University of Kent, ⁴University of Birmingham

Computational Approaches

B67 Evaluating the functional neuroanatomy of language represented across 11,406 neuroimaging studies: a multivariate meta-analysis Alex Teghipco¹, Gregory Hickok¹; ¹University of California, Irvine

B68 A cognitive psychometric model of picture naming improves lesion-symptom maps Grant Walker¹, Julius Fridriksson², Gregory Hickok¹; ¹University of California, Irvine, ²University of South Carolina

B69 Quantitative Assessment of Cognitive Models with Neuroimaging Data Frank H Guenther¹, Ayoub Daliri², Alfonso Nieto-Castanon¹, Megan Thompson¹, Jason A Tourville¹; ¹Boston University, ²Arizona State University

B70 How event probability impacts sentence processing: Modeling N400 amplitudes during reversal anomalies Milena Rabovsky¹, James L. McClelland²; ¹Freie Universitaet Berlin, ²Stanford University

Poster Session C

Friday, August 17, 10:30 am – 12:15 pm, Room 2000AB

Control, Selection, and Executive Processes

C1 The critical role of interference control during novel metaphor comprehension Hee-Dong Yoon¹, Min-Suk Kang², Tae-Hyun Yoo¹, Hyeon-Ae Jeon^{1,3}; ¹Daegu Gyeongbuk Institute of Science and Technology (DGIST), Daegu, Republic of Korea, ²Sungkyunkwan University, Seoul, Republic of Korea, ³Partner Group of the Max Planck Institute for Human Cognitive and Brain Sciences, DGIST, Daegu, Republic of Korea

C2 Pre-output language monitoring in sign production Stephanie Ries¹, Soren Mickelsen¹, Linda Nadalet¹, Megan Mott¹, Katherine J. Midgley¹, Phillip J. Holcomb¹, Karen Emmorey¹; ¹San Diego State University

Speech Motor Control and Sensorimotor Integration

C3 The Role of Primary Motor Cortex in Second Language Word Recognition Beatriz Barragan¹, Kazumasa Uehara¹, Marissa Miller¹, Yuto Tauchi², Marco Santello¹, Julie Liss¹; ¹Arizona State University, ²Okayama University

C4 Cortico-striatal tractography: Structural connectivity of the left inferior frontal gyrus along the rostrocaudal length of the putamen Simone Renée Roberts^{1,2,3}, Anastasia Bohsali^{4,5}, Stella Maria Tran^{1,2,3}, Jonathan Harris Drucker^{1,2}, Steven Hirschmann, Tricia Z. King³, Lisa C. Krishnamurthy^{1,2,3}, Venkatagiri Krishnamurthy^{1,2}, Thomas Mareci⁵, Bruce Crosson^{1,2,3}; ¹Center for Visual & Neurocognitive Rehabilitation, US Department of Veterans Affairs, Atlanta, GA, ²Emory University, ³Georgia State University, Atlanta, ⁴Brain Rehabilitation Research Center, US Department of Veterans Affairs, Gainesville, FL, ⁵The University of Florida, Gainesville, FL

Phonology and Phonological Working Memory

C5 Does alphabetic orthography influence sound variation and change? Evidence from Hong Kong Cantonese Yubin Zhang¹, Kisa Sze Wai Chan¹, Caicai Zhang^{1,2}; ¹The Hong Kong Polytechnic University, ²Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences

C6 Does the modified Sternberg task measure verbal working memory function? Evidence from experimental pharmacology Christopher Barkley¹, Zhenhong Hu², Ann Fieberg¹, Lynn Eberly¹, Susan Marino; ¹University of Minnesota, ²University of Florida

C7 Phonological rule application recruits left inferior frontal gyrus Mathias Scharinger^{1,2,3}, Johanna Steinberg^{3,4}, Frank Zimmerer⁵, Jonas Obleser⁶; ¹Phonetics Research Group, Department of German Linguistics, Philipps-University

Marburg, Germany, ²Center for Mind, Brain and Behavior, Philipps-University Marburg, Germany, ³Cognitive and Biological Psychology, University of Leipzig, Germany, ⁴AGAPLESION Diakoniekrlinikum Rotenburg GmbH, Rotenburg (Wumme), Germany, ⁵Language Science & Technology, Saarland University, Germany, ⁶Institute for Psychology, University of Luebeck

Perception: Speech Perception and Audiovisual Integration

C8 Brain activity predicts future learning potential in intensive second language listening training Mayumi Kajiura¹, Hyeonjeong Jeong², Natasha Y. S. Kawata², Shaoyun Yu¹, Toru Kinoshita¹, Ryuta Kawashima², Motoaki Sugiura²; ¹Nagoya University, ²Tohoku University

C9 Do you see what i am saying? An EEG study about the perception of visual speech. Maëva Michon¹, Gonzalo Boncompagni¹, Vladimir López Hernández¹; ¹Pontifical Catholic University of Chile, School of Psychology

C10 Talker-anchoring deficit in lexical tone processing in Cantonese-speaking congenital amusics: Evidence from event-related potentials Jing Shao^{1,2}, Rebecca Yick Man Lau¹, Caicai Zhang^{1,2}; ¹The Hong Kong Polytechnic University, ²Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences

C11 Neural evidence of voice processing: the distinction between familiar and unknown voices Julien Plante-Hébert¹, Boutheina Jemel², Victor Boucher¹; ¹Laboratoire de sciences phonétiques de l'Université de Montréal, ²Laboratoire de recherche en électrophysiologie cognitive, Hôpital Rivière-des-Prairies

C12 Orofacial somatosensory inputs improves speech sound detection in noisy environments Rintaro Ogane^{1,2}, Jean-Luc Schwartz^{1,2}, Takayuki Ito^{1,2,3}; ¹GIPSA-lab, CNRS, Grenoble Campus, BP46, F-38402 Saint Martin D'Hères Cedex, France, ²Univ. Grenoble Alpes, 38400 Saint Martin D'Hères, France, ³Haskins Laboratories, New Haven, CT

C13 Brain oscillations and speech rate variations: cortical tracking of syllable rate and fundamental frequency in children and adults Véronique Boulenger¹, Guiraud Hélène¹, Hincapié Ana-Sofia^{2,3}, Jerbi Karim²; ¹Laboratoire Dynamique Du Langage, CNRS/Université de Lyon UMR5596, Lyon, France, ²Département de Psychologie, Université de Montréal, Canada, ³Pontificia Universidad Católica de Chile, Santiago de Chile, Chile

Perception: Orthographic and Other Visual Processes

C14 The neurobiology of Braille reading beyond the VWFA Judy Sein Kim¹, Erin Brush¹, Shipra Kanjlia¹, Marina Bedny¹; ¹Johns Hopkins University

C15 Word Inversion Sensitivity as a Marker of Word Identification Style and Visual Word Form Area Lateralization Elizabeth Hirshorn¹, Brandon Carlos², Corrine Durisko^{3,4}, Charles Perfetti^{3,4}, Julie Fiez^{3,4}, Marc Coutanche^{3,4}; ¹SUNY New Paltz, ²University of Houston, ³University of Pittsburgh, ⁴Learning Research and Development Center

C16 Tracking the time course of letter visual-similarity effects during word recognition: A masked priming ERP investigation Eva Gutierrez-Sigut^{1,2}, Ana Marcet¹, Manuel Perea^{1,3}; ¹University of Valencia, ²University College London, ³Basque Center on Cognition, Brain, and Language

C17 ERPs reveal early orthographic and phonological selectivity during single word reading. Laurie S. Glezer¹, Katherine J. Midgley¹, Karen Emmorey¹, Phillip J. Holcomb¹; ¹San Diego State University

Grammar: Syntax

C18 Subject and Object Asymmetry in Korean Scrambling: An ERP Study Oh Eunjeong¹, Wonil Chung², Myung-Kwan Park², Sanghoun Song³, Euhee Kim⁴; ¹Sangmyung University, ²Dongguk University, ³Incheon National University, ⁴Shinhan University

C19 Syntactic and semantic specialization in 5-6 year-old children during auditory sentence processing Jin Wang¹, Mable Rice², James Booth¹; ¹Psychology and Human Development Department, Vanderbilt University, ²College of Liberal Arts and Sciences-Speech-Language-Hearing, The University of Kansas

C20 Abstract rules versus abstract representation: A neural decoding analysis of localized representation in an artificial grammar task Adriana Schoenhaut¹, Anne Marie Crinnion², Ahlfors Seppo^{1,3}, Gow David^{1,3,4}; ¹Massachusetts General Hospital, ²Harvard University, ³Athinoula A. Martinos Center for Biomedical Imaging, ⁴Salem State University

C22 Processing linguistic complexity in Japanese scrambled sentences: an fMRI study Hyeonjeong Jeong¹, Kaoru Koyanagi², Fuyuki Mine², Yoko Mukoyama³, Hiroshi Ishinabe⁴, Haining Cui¹, Kiyo Okamoto¹, Ryuta Kawashima¹, Motoaki Sugiura¹; ¹Tohoku University, Sendai, Japan, ²Sophia University, Tokyo, Japan, ³Musashino University, Tokyo, Japan, ⁴Higashiosaka Junior College, Osaka, Japan

C23 ERP responses reveal differences in how subject-verb agreement violations are resolved based on the grammatical class of the words involved Carrie Jackson¹, Patricia Schempp¹, Janet G. van Hell¹; ¹Pennsylvania State University

C24 Korean English L2ers' sensitivity to information structure: An ERP study Wonil Chung¹, Myung-Kwan Park¹; ¹Dongguk University

Meaning: Lexical Semantics

C25 Lower Beta Suppression during Early Verb Learning Emma K. Tharp¹, Yvonne Ralph¹, Julie M. Schneider¹, Mandy J. Maguire¹; ¹University of Texas at Dallas

C26 Evaluating experiential models of word semantics relative to distributional and taxonomic models Leonardo Fernandino¹, Lisa Conant¹, Colin Humphries¹, Jeffrey Binder¹; ¹Department of Neurology, Medical College of Wisconsin

C27 Lexical access in reading vs. naming: MEG evidence from semantic priming and inhibition Julien Dirani¹, Liina Pyllkkänen^{1,2}; ¹New York University Abu Dhabi, ²New York University

C28 The relation between alpha/beta oscillations and the encoding of sentence induced contextual information René Terporten^{1,2}, Anne Kösem², Bohan Dai^{1,2}, Jan-Mathijs Schoffelen², Peter Hagoort^{1,2}; ¹Max Planck Institute for Psycholinguistics, ²Donders Centre for Cognitive Neuroimaging

C29 Watching the brain during the acquisition of new words with rich and poor meaning: Electrophysiological evidence Roberto Ferreira¹, Patricia Román², Ton Dijkstra³; ¹Universidad Católica de la Santísima Concepción, ²Universidad Loyola Andalucía, ³Donders Centre for Cognition, Radboud University

C30 Neural correlates of automatic semantic priming revealed by an event-related fMRI Maria Varkanitsa¹, Erin Meier², Yue Pan², David Caplan¹, Swathi Kiran²; ¹Massachusetts General Hospital, Harvard Medical School, ²Boston University, Sargent College of Health & Rehabilitation Sciences

C31 The neural correlates of semantic radicals in processing Chinese characters Xiangyang Zhang¹, Fakun Chen¹, Rui Zhang¹, Jianfeng Yang¹; ¹Shaanxi Normal University

Meaning: Prosody, Social and Emotional Processes

C32 Decoding another's feeling of knowing from spoken language with multivariate pattern analysis on fMRI Xiaoming Jiang^{1,2}, Ryan Sanford³, Marc D. Pell^{2,3}; ¹Department of Psychology, School of Humanity, Tongji University, China, ²School of Communication Sciences and Disorders, McGill University, Canada, ³Montreal Neurological Institute, McGill University, Canada

C33 Being in love changes brain activity during speaking Clara Martin^{1,2}, Ileana Quinones¹, Manuel Carreiras^{1,2}; ¹BCBL, ²Ikerbasque

C34 Individual differences in sarcasm perception: behavioral and eye tracking evidence Kathrin Rothermich¹, Mathew Fammartino², Hana Kim¹, Gitte Joergensen²; ¹East Carolina University, Greenville, USA, ²University of Connecticut, Storrs, USA

C35 Neural processes of sarcasm interpretation: the role of tone of voice Maël Mauchand¹, Jonathan Caballero¹, Xiaoming Jiang¹, Marc Pell¹; ¹McGill University

Language Therapy

C36 Using local neural heterogeneity to both predict and track in language recovery Jeremy Purcell¹, Robert Wiley¹, Brenda Rapp¹; ¹Department of Cognitive Science, Johns Hopkins University, USA

C37 Perilesional white matter microstructure and aphasia recovery Emilie T. McKinnon¹, Jens H. Jensen¹, Chris Rorden², Alexandra Basilakos², Ezequiel Gleichgerrcht¹, Julius Fridriksson², Joseph A. Helpner¹, Leonardo Bonilha¹; ¹Medical University of South Carolina, ²University of South Carolina

C38 BDNF Genotype and tDCS Interaction in Aphasia Therapy Julius Fridriksson¹, Jordan Elm², Brielle Stark¹, Alexandra Basilakos¹, Chris Rorden³, Souvik Sen⁴, Mark George^{5,6,7}, Leonardo Bonilha²; ¹University of South Carolina Department of Communication Sciences and Disorders, ²Medical University of South Carolina Department of Public Health Sciences, ³University of South Carolina Department of Psychology, ⁴University of South Carolina Department of Neurology, ⁵Medical University of South Carolina Department of Psychiatry, ⁶Ralph H. Johnson VA Medical Center, Charleston, ⁷Medical University of South Carolina Department of Neurology

Language Disorders

C39 Neuromodulatory effects of individualized tDCS on MEG dynamics in chronic post-stroke aphasia Priyanka Shah-Basak¹, Gayatri Sivaratnam¹, Selina Teti¹, Alexander Francois-Nienaber¹, Tiffany Deschamps¹, Jed Meltzer¹; ¹Rotman Research Institute, Baycrest Health Sciences, Toronto, ON Canada

C40 Syntactic and thematic mechanisms of subject-verb integration in aphasia and typical sentence comprehension Jennifer Mack¹, Cynthia K. Thompson²; ¹UMass-Amherst, ²Northwestern University

C41 Diversity of modular networks determines aphasia severity. Barbara Khalibinzwaa Marebwa¹, Julius Fridriksson², Leonardo Bonilha¹; ¹Medical University of South Carolina, ²University of South Carolina

C42 Exploring neural organization for two different auditory-motor tasks in typical adults and adults who stutter. Anastasia Sares^{1,4}, Mickael Deroche^{1,4}, Hiroki Ohashi², Douglas Shiller^{3,4}, Vincent Gracco^{1,2,4}; ¹Integrated Program in Neuroscience and School of Communication Sciences and Disorders, McGill University, Montréal, QC, Canada, ²Haskins Laboratories, New Haven, CT, USA, ³School of Speech-Language Pathology & Audiology, Université de Montréal, Montréal, QC, Canada, ⁴Centre for Research in Brain, Language, and Music, Montreal, QC, Canada

C43 The role of white-matter tracts in language processing in patients with brain tumors Svetlana Malyutina¹, Olga Dragoy¹, Elisaveta Gordeyeva¹, Andrey Zyryanov¹, Dmitry Kopachev², Ekaterina Stupina¹, Valeria Tolkacheva³, Igor Pronin², Maria Ivanova¹; ¹National Research University Higher School of Economics, ²Burdenko National Scientific and Practical Center for Neurosurgery, ³European Master in Clinical Linguistics

C44 Assessing speech movements in people who stutter using real-time MRI of the vocal tract Charlotte Wiltshire¹, Jennifer Chesters¹, Mark Chiew¹, Kate E Watkins¹; ¹University of Oxford

C45 Apraxia of speech in aphasia maps to lesions in the arcuate fasciculus Sebastien Paquette¹, Karen Chenausky¹, Andrea Norton¹, Gottfried Schlaug¹; ¹Music, Stroke Recovery, and Neuroimaging Laboratory, Beth Israel Deaconess Medical Center - Harvard Medical School

C46 Does a discrete lesion to the posterior left Middle temporal gyrus produce a language deficit? Sonia Brownsett^{1,2}, Kori Ramajoo^{1,2}, Katie McMahon³, Hanna Gauvin^{1,2}, Greig de Zubicaray^{1,2}; ¹Faculty of Health, School - Psychology and Counselling, QUT, ²Institute of Health Biomedical Innovation, QUT, ³Faculty of Health, School - Clinical Sciences

C47 Atypical neural responses associated with inaccurate speech production in children with speech sound disorders Alycia Cummings¹, Ying Wu²; ¹Idaho State University - Meridian, ²University of California San Diego

Language Development

C48 Reading efficiency is associated with fractional anisotropy, but not with myelin content, in the superior cerebellar peduncles. Lisa Bruckert¹, Katherine E. Travis¹, Aviv A. Mezer², Michal Ben-Shachar³, Heidi M. Feldman¹; ¹Stanford University, ²The Hebrew University of Jerusalem, ³Bar Ilan University

C49 Development of Spoken Language Comprehension in Children with Cochlear Implants: Data from a Passive Listening Task David Corina¹, Sharon Coffey-Corina¹, Laurie Lawyer², Kristina Backer¹, Andrew Kessler³, Lee Miller¹; ¹Center for Mind and Brain, University of California, Davis, ²University of Essex, United Kingdom, ³University of Washington, Seattle WA

C50 Resting state versus Task Based Exploration of Age-Related Changes of the Neurofunctional Connectome. Perrine Ferré¹, Yassine Benhajali¹, Jason Steffener², Yaakov Stern³, Yves Joannette¹, Pierre Bellec¹; ¹Centre de recherche de l'Institut Universitaire de Gériatrie de Montréal (CRIUGM), UdeM, ²Interdisciplinary School of Health Sciences, University of Ottawa, ³Cognitive Neuroscience Division, Columbia University, USA

C51 Refining diffusion MRI as a tool to link Anatomical Connectivity and Second-Language Learning Success Kaija Sander^{1,2}, Elise B. Barbeau^{1,2}, Shari Baum^{2,3}, Michael Petrides^{1,2,4}, Denise Klein^{1,2}; ¹Cognitive Neuroscience Unit, Montreal Neurological Institute, McGill University, Montreal, ²Centre for Research on Brain, Language and Music (CRBLM), Montreal, ³School of Communication Sciences and Disorders, McGill University, Montreal, ⁴Department of Psychology, McGill University, Montreal

C52 Neural correlates of semantic ambiguity in second language learners Kiyo Okamoto¹, Hyeonjeong Jeong^{2,3}, Haining Cui³, Ryuta Kawashima⁴, Motoaki Sugiura²; ¹Graduate School of Medicine, Tohoku University, Sendai, Japan, ²Department of Human Brain Science, IDAC, Tohoku University, Sendai, Japan, ³Graduate School of International Cultural Studies, Tohoku University, Sendai, Japan, ⁴Department of Advanced Brain Science, IDAC, Tohoku University, Sendai, Japan

Multilingualism

C53 Bilingualism interacts with age-related cortical thinning in children and adolescents Christos Pliatsikas¹, Vincent DeLuca¹, Lotte Meteyard¹, Michael Ullman²; ¹School of Psychology and Clinical Language Sciences, University of Reading, UK, ²Department of Neuroscience, Georgetown University, USA

C54 Bilingualism is a Spectrum: Effects of specific language experiences on brain function and executive control in bilinguals. Vincent DeLuca¹, Christos Pliatsikas¹, Jason Rothman^{1,2}, Ellen Bialystok³; ¹University of Reading, UK, ²UiT: The Arctic University of Norway, ³University of York, Canada

C55 Bilingual switching experience improves executive control: A follow-up fMRI study Cong Liu¹, Lu Jiao², Yuan Chen¹, Ruiming Wang¹; ¹South China Normal University, ²Beijing Normal University

C56 Individual Differences in Executive Function and L2 Age of Acquisition Modulate Bilingual Homograph Processing Pauline Palma¹, Veronica Whitford², Debra Titone¹; ¹McGill University, ²University of Texas at El Paso

C57 The Impact of Second Language Age of Acquisition and Language Usage Entropy on Reinforcement Learning among Bilingual Adults in a Non-Verbal Decision Making Task Mehrgol Tiv¹, Jason Gullifer¹, A. Ross Otto¹, Debra Titone¹; ¹McGill University

C58 Bilingualism modulates L1 word processing in the developing brain Olga Kepinska¹, Myriam Oliver¹, Zhichao Xia^{1,2}, Rebecca Marks³, Leo Zekelman¹, Roeland Hancock^{1,4}, Stephanie Haft¹, Priscilla Duong^{1,5}, Yuuko Uchikoshi Tonkovich⁶, Ioulia Kovelman³, Fumiko Hoeft^{1,4,7}; ¹University of California, San Francisco, ²Beijing Normal University, ³University of Michigan, ⁴University of Connecticut, ⁵Palo Alto University, ⁶University of California, Davis, ⁷Haskins Laboratories

C59 Neural discrimination of non-native vowel contrasts by late Spanish-English bilinguals Daniela Castillo^{1,2}, Eve Higby³, Sarah Kresh¹, Nancy Vidal-Finnerty⁴, Jason A Rosas¹, Valerie L Shafer¹; ¹The Graduate Center of the City University of New York, ²Queens College, ³University of California, Riverside, ⁴Iona College

C60 The Electrophysiological Effects of L2 Negation Processing Gabrielle Manning¹, Laura Sabourin¹, Sara Farshchi²; ¹University of Ottawa, ²Lund University

Methods

C61 Worse than useless: traditional ERP baseline correction reduces power through self-contradiction Phillip M. Alday¹; ¹Max Planck Institute for Psycholinguistics

C62 Overcoming the challenges of electrophysiology recordings during multi-word speech production Svetlana Pinet¹, Nazbanou Nozari¹, Robert T. Knight², Stephanie K. Riès³; ¹Johns Hopkins University, ²University of California, Berkeley, ³San Diego State University

C63 Analysis of functional connectivity furthers understanding of spontaneous speech and auditory comprehension in chronic stroke. Helga Thors¹, Brielle C. Stark¹, Grigori Yourganov¹, Alexandra Basilakos¹, Julius Fridriksson¹; ¹University of South Carolina

C64 The impact of sample size on the reproducibility of voxel-based lesion-deficit mappings Diego Lorca-Puls¹, Andrea Gajardo-Vidal¹, Jitrachote White¹, Mohamed Seghier^{1,2}, Alexander Leff¹, David Green¹, Jenny Crinion¹, Philipp Ludersdorfer¹, Thomas Hope¹, Howard Bowman^{3,4}, Cathy Price¹; ¹University College London, ²Emirates College for Advanced Education, ³University of Kent, ⁴University of Birmingham

C65 Post-stroke impairment of auditory comprehension is associated with changes in cerebral blood flow Grigori Yourganov¹, Jaleel Jefferson¹, Julius Fridriksson¹, Brielle Stark¹, Christopher Rorden¹; ¹University of South Carolina

Computational Approaches

C66 Break the ice vs. boa constrictors: Do they have different neural bases? Shohini Bhattachali¹, Murielle Fabre¹, John Hale¹; ¹Cornell University

C67 DeepListener: A computational model of human speech recognition that works with real speech and develops distributed phonological codes Heejo You¹, Hosung Nam², Paul Allopenna¹, Kevin Brown¹, James Magnuson¹; ¹University of Connecticut, ²Korea University

Poster Session D

Friday, August 17, 4:45 – 6:30 pm, Room 2000AB

Control, Selection, and Executive Processes

D1 How does functional connectivity between domain-general and language networks relate to sentence comprehension? A resting-state fMRI study in older adults Megan C. Fitzhugh¹, Leslie C. Baxter², Corianne Rogalsky¹; ¹Arizona State University, ²Barrow Neurological Institute & St. Joseph's Hospital and Medical Center

D2 Neural correlates of nonverbal executive performance in chronic post-stroke aphasia Rahel Schumacher¹, Matthew A. Lambon Ralph¹; ¹Neuroscience and Aphasia Research Unit, University of Manchester, UK

D3 Identifying the Neural-Computational Correlates of Cognitive Control During Language Processing - Combined Activation Likelihood Estimation and Functional Imaging Evidence of Language Production Nicolas Bourguignon¹, Vincent Gracco²; ¹Department of experimental psychology, Ghent University, Belgium, ²Haskins Laboratories, New Haven

D4 Effect of bilingualism and perceptual load on the subcomponents of attention in older adults: Evidence from the ANT task Tanya Dash^{1,2}, Yves Joanette^{1,2}, Ana Inés Ansaldo^{1,2}; ¹Centre de recherche de l'Institut Universitaire de Gériatrie de Montréal, Quebec, ²École d'orthophonie et d'audiologie, Faculté de médecine, Université de Montréal, Quebec

Speech Motor Control and Sensorimotor Integration

D5 Speech rate is associated with cerebellar white matter in persistent developmental stuttering Sivan Jossinger¹, Vered Kronfeld-Duenias¹, Avital Zislis¹, Ofer Amir², Michal Ben-Shachar¹; ¹Bar-Ilan University, ²Tel-Aviv University

D6 Ageing does not affect excitability of articulatory motor cortex during speech perception Helen E Nuttall^{1,2}, Gwijde Maegherman², Patti Adank²; ¹Lancaster University, UK, ²University College London, UK

D7 Sensorimotor adaptation in speech is sensitive to vowel targets of altered feedback Hardik Kothare^{1,2}, Inez Raharjo^{1,2}, Kamalini Ranasinghe², Vikram Ramanarayanan^{2,3}, Benjamin Parrell⁴, John Houde², Srikantan Nagarajan^{1,2}; ¹UC Berkeley-UCSF Graduate Program in Bioengineering, ²University of California, San Francisco, ³Educational Testing Service R&D, ⁴University of Wisconsin- Madison

D8 Neural mechanisms underlying the impact of speech sound naturalness during transformed auditory feedback Sadao Hiroya¹, Takemi Mochida¹; ¹NTT Communication Science Labs

D9 Stuttering-related differences in auditory-motor coherence in speech and tone discrimination. Tim Saltuklaroglu¹, Ashley Harkrider¹, David Jenson¹, David Thornton¹; ¹University of Tennessee Health Sciences Center

D10 Delayed auditory feedback, vocal oscillations, and embedded rhythms François-Xavier Brajot¹; ¹Ohio University

Phonology and Phonological Working Memory

D11 Electrophysiological Effects of Bilingualism and Aging on Working Memory Cassandra Morrison^{1,2}, Farooq Kamal^{1,2}, Giovanna Busa^{1,2}, Vanessa Taler^{1,2}, Jason Steffener¹; ¹University of Ottawa, ²Bruyère Research Institute

D12 Nonword repetition recruits distinct and overlapping nodes of language and working memory networks Terri L. Scott¹, Sara C. Dougherty¹, Ja Young Choi^{1,2}, Tyler K. Perrachione¹; ¹Boston University, ²Harvard University

D13 Neural dynamics of repetition-based learning of language comprehension parallels perceptual learning Ayelet Gertsovski¹, Olga Aizenberg¹, Merav Ahissar¹; ¹Hebrew University of Jerusalem

D14 Phonotactic Rule-Learning Without Semantics: An EEG study Enes Avcu¹, Ryan Rhodes¹; ¹University of Delaware

Perception: Speech Perception and Audiovisual Integration

D15 Impaired Incidental Phonetic Learning in People with Aphasia Christopher Heffner¹, David Saltzman¹, Samantha Formica¹, Emily Myers¹; ¹University of Connecticut

D16 Lexical tone classification in frontal and posterior regions using fNIRS Benjamin Zinszer¹, Todd Hay¹, Alex Athey¹, Bharath Chandrasekaran¹; ¹The University of Texas at Austin

D17 Perceptual processing of pre-boundary lengthening during phrase segmentation in English: Preliminary ERP evidence. Annie Gilbert^{1,2}, Jasmine Lee³, Max Wolpert^{2,4}, Shari Baum^{1,2}; ¹School of Communication Sciences and Disorders, McGill University, Canada., ²Centre for Research on Brain, Language and Music, Canada., ³Honours in Cognitive Science, McGill University, Canada., ⁴Integrated Program in Neuroscience, McGill University, Canada.

D18 Speaker-normalized vowel representations in human auditory cortex Matthias Sjerps^{1,2}, Neal Fox³, Keith Johnson⁴, Edward Chang³; ¹Donders Institute for Brain Cognition and Behavior, ²Max Planck Institute Nijmegen, ³University of California San Francisco, ⁴UC Berkeley

D19 Multimodal effects on comprehension in left hemisphere stroke Laurel Buxbaum¹, Harrison Stoll¹, Anna Krason², Alessandro Monte², Gabriella Vigliocco²; ¹Moss Rehabilitation Research Institute, ²University College London

Perception: Auditory

D20 Measuring the N400 during naturalistic conversation: An EEG hyperscanning study Caitriona Douglas¹, Antoine Tremblay¹, Aaron Newman¹; ¹Dalhousie University

D21 Hierarchical Processing of Degraded Speech: A Functional Near-Infrared Spectroscopy Study Bradley E. White^{1,2,3}, Clifton Langdon^{1,2,3}; ¹Language and Educational Neuroscience Laboratory, ²PhD in Educational Neuroscience Program, ³Gallaudet University

D22 An EEG study on the influence of dialectal competence on neural processing of front vowels in German Sarah Franchini¹

Writing and Spelling

D23 Examining plasticity of the reading network: insights from deaf readers of Chinese Junfei Liu^{1,2,3,4}, Tae Twomey^{1,2}, Mengke Wu^{3,4}, Yiming Yang^{3,4}, Mairead MacSweeney^{1,2}; ¹Institute of Cognitive Neuroscience, University College London, ²Deafness, Cognition and Language Research Centre, University College London, ³Jiangsu Key Laboratory of Language and Cognitive Neuroscience, Jiangsu Normal University, ⁴School of Linguistic Sciences and Arts, Jiangsu Normal University

D24 Relationship between functional connectivity and spelling behaviour in individuals with dyslexia Kulpreet Cheema¹, Dr. William Hodgetts^{1,2}, Dr. Jacqueline Cummine¹; ¹Faculty of Rehabilitation Medicine, University of Alberta, Canada, ²The Institute for Reconstructive Sciences in Medicine, Canada

Grammar: Morphology

D25 Contributions of left frontal and temporal cortex to sentence comprehension: Evidence from simultaneous TMS-EEG. Thomas Gunter¹, Leon Krocze¹, Anna Rysop¹, Angela Friederici¹, Gesa Hartwigsen¹; ¹Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany

D26 A neurophysiological investigation of translation and morphological priming in biscriptal bilinguals Myung-Kwan Park¹, Wonil Chung¹, Say Young Kim²; ¹Dongguk University, ²Hanyang University

D27 Can morphological structure compensate for missing phonological information during reading? Evidence from skilled and un-skilled readers Tali Bitan^{1,2}, Yael Weiss³, Tammar Truzman⁴, Laurice Haddad⁴, Bechor Barouch¹, Tami Katzir⁵; ¹Psychology Department, IIPDM, University of Haifa, Israel, ²Department of Speech Pathology, University of Toronto, Canada, ³Psychology

Department University of Texas at Austin, US, ⁴Department of Communication Sciences and Disorders, University of Haifa, Israel, ⁵Department of Learning Disabilities, The E.J. Safra Brain Research center, University of Haifa, Israel

Grammar: Syntax

D28 Expectation modulations based on verb bias and grammatical structure probability shape sentence processing: An ERP study Kirsten Weber^{1,2}, Lena Henke¹, Cristiano Micheli²; ¹Max Planck Institute for Psycholinguistics, Nijmegen, the Netherlands, ²Donders Institute for Brain, Cognition and Behaviour, Nijmegen, the Netherlands

D29 EEG Evidence for Different Syntactic Expectations in Parsing Chinese Subject and Object-relative Clauses Jiayi Lu¹, Matthew Walenski¹, Cynthia K. Thompson¹; ¹Northwestern University

D30 Beta-band ERP activity during cyclic wh-movement in French as a physiological index of non-nativeness Laurent Dekydtspotter¹, Kate A. Miller², Mike Iverson¹, Yanyu Xiong¹, Swanson Kyle¹, Gilbert Charlene¹; ¹Indiana University Bloomington, ²Indiana University Purdue University Indianapolis

D31 Left dorsal white-matter microstructure and oscillatory coupling jointly predict language comprehension Benedict Vassileiou¹, Caroline Beese¹, Angela D. Friederici¹, Lars Meyer¹; ¹Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany

D32 An ERP study of Q-particle licensing and question-answer congruence in Korean Daeho Chung¹, Kiyong Choi², Wonil Chung³, Say Young Kim¹, Bum-Sik Park³, Myung-Kwan Park³; ¹Hanyang University, ²Kwangwoon University, ³Dongguk University

Meaning: Lexical Semantics

D33 Language production across the lifespan: Insights from inferential naming Raphael Fargier¹, Marina Laganaro¹; ¹FPSE, University of Geneva, Switzerland

D34 A lesion study of semantic hubs: the anterior temporal lobe and temporo-parietal junction Nicholas Ricciardi¹, Chris Rorden¹, Julius Fridriksson¹, Rutvik Desai¹; ¹University of South Carolina

D35 Multi-voxel pattern analysis reveals conceptual flexibility and invariance in language Markus Ostarek¹, Jeroen van Paridon¹, Peter Hagoort^{1,2}, Falk Huettig^{1,2}; ¹Max Planck Institute for Psycholinguistics, Nijmegen, ²Donders Institute for Brain, Cognition, and Behavior, Radboud University, Nijmegen

D36 Fine subdivisions of the left anterior temporal lobe in semantic processing of social words Xiaosha Wang¹, Bijun Wang¹, Yanchao Bi¹; ¹Beijing Normal University

D37 An integrated neural decoder of experiential and linguistic meaning Andrew Anderson¹, Jeffrey Binder², Leonardo Fernandino², Colin Humphries², Lisa Conant², Douwe Kiela³, Rajeev Raizada¹, Feng Lin¹, Edmund Lalor^{1,4}; ¹University of Rochester, ²Medical College of Wisconsin, ³Facebook, ⁴Trinity College Dublin

D38 Emojis and Prediction in Sentence Contexts Ben Weissman¹, Darren Tanner¹; ¹University of Illinois at Urbana-Champaign

D39 The neural basis of phonological and semantic neighborhood density Michele T. Diaz¹, Hossein Karimi¹, Anna Eppes¹, Victoria Gertel¹, Sara Winter¹; ¹The Pennsylvania State University

D40 The neural organization of speech production: A lesion-based study of error patterns in connected speech Brielle Stark¹, Alexandra Basilakos¹, Gregory Hickok², Chris Rorden³, Leonardo Bonilha⁴, Julius Fridriksson¹; ¹University of South Carolina Department of Communication Sciences and Disorders, ²University of California Irvine Department of Cognitive Science, ³University of South Carolina Department of Psychology, ⁴Medical University of South Carolina Department of Neurology

D41 Visual stream semantic priming of reading aloud and lexical decision Josh Neudorff¹, Chelsea Ekstrand², Shaylyn Kress³, Alexandra Neufeldt⁴, Ron Borowsky⁵; ¹University of Saskatchewan, ²University of Saskatchewan, ³University of Saskatchewan, ⁴University of Saskatchewan, ⁵University of Saskatchewan

Meaning: Combinatorial Semantics

D42 Neural evidence for prediction of animacy features by verbs during language comprehension: Evidence from MEG and EEG Representational Similarity Analysis Lin Wang^{1,2}, Ole Jensen³, Gina Kuperberg^{1,2}; ¹Department of Psychiatry and the Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Harvard Medical School, Charlestown, MA, USA, ²Department of Psychology, Tufts University, Medford, MA, USA, ³Centre for Human Brain Health, University of Birmingham, Birmingham, UK

D43 Single trial analysis of EEG elicited by expected and implausible words in sentences Seana Coulson¹, Megan Bardolph¹, Cyma Van Petten²; ¹UC San Diego, ²Binghamton University

Meaning: Discourse and Pragmatics

D44 Negation, prediction and truth-value judgments: evidence from ERPs Maria Spychalska¹, Viviana Haase², Jarmo Kontinen², Markus Werning²; ¹University of Cologne, ²Ruhr University Bochum

D45 The neural basis of shared discourse: fMRI evidence on the relation between speakers' and listeners' brain activity when processing language in different states of ambiguity Karin Heidlmayr^{1,2}, Kirsten Weber^{1,2},

Atsuko Takashima^{1,2}, Peter Hagoort^{1,2}; ¹Max Planck Institute for Psycholinguistics, Wundtlaan 1, 6525XD Nijmegen, The Netherlands, ²Donders Institute for Brain, Cognition and Behaviour, Radboud University, 6500 HB Nijmegen, The Netherlands

D46 Anatomical connectivity and conversational impairments in patients who suffered from a moderate to severe traumatic brain injury Karine Marcotte^{1,2}, Simona Maria Brambati^{2,3}, Erlan Sanchez-Gonzalez^{1,2}, Caroline Arbour^{1,2}, Christophe Bedetti³, Nadia Gosselin^{1,3}; ¹Centre de recherche du CIUSSS du Nord-de-l'île-de-Montréal (Hôpital du Sacré-Cœur de Montréal) Montréal, Quebec, Canada., ²Université de Montréal, ³Centre de recherche de l'Institut Universitaire de Gériatrie de Montréal, Montréal, Québec, Canada.

D47 Prior experience modulates electrophysiological responses to novel metaphorical language. Rafal Jonczyk^{1,2}, Gül E. Kremer³, Zahed Siddique⁴, Janet G. Van Hell¹; ¹Pennsylvania State University, USA, ²Adam Mickiewicz University, Poland, ³Iowa State University, USA, ⁴University of Oklahoma, USA

Language Therapy

D48 Sensorimotor Strategies for the Improvement of Naming Abilities in Aphasia: Neural and Behavioral Correlates of POEM – Personalized Observation, Execution, and Mental Imagery Therapy in two participants with verb anomia Edith Durand^{1,2}, Pierre Berroir^{1,3}, Ana Inés Ansaldo^{1,2,3}; ¹Centre de Recherche de l'Institut Universitaire de Gériatrie de Montréal CRIUGM, Canada, ²Ecole d'orthophonie et d'audiologie, Faculté de médecine, Université de Montréal, Canada, ³Université de Montréal et Ecole polytechnique, Institut de génie biomédical, Canada

Language Disorders

D49 Dissociable thalamo-cortical network disruption explains language, motor and sensory deficits after stroke Anika Stockert¹, Sophia Hormig¹, Max Wawrzyniak¹, Mandy Pirlich¹, Stefan Schob¹, Dorothee Saur¹; ¹University Clinic of Leipzig, Germany

D50 Effects of active and sham tDCS on lexical decision in three persons with chronic aphasia Rachael M. Harrington¹, Simone R. Roberts^{1,2}, Lisa C. Krishnamurthy^{1,2,3}, Venkatagiri Krishnamurthy^{2,3}, Amy D. Rodriguez³, Keith M. McGregor^{2,3}, Marcus Meinzer⁴, Bruce Crosson^{1,2,3}; ¹Georgia State University, Atlanta, GA, USA, ²Emory University, Atlanta, GA, USA, ³Atlanta VAMC, Decatur, GA, USA, ⁴University of Queensland, Herston, QLD, AU

D51 Rethinking Effects of White Matter Tract Disconnection on Post-Stroke Language Impairment Jason Geller¹, Melissa Thye¹, Daniel Mirman¹; ¹University of Alabama-Birmingham

D52 Formulaic language in bilingual individuals with Parkinson's Disease: A comparison with healthy controls Binna Lee^{1,2}, Diana Van Lancker Sidtis^{1,2}; ¹New York University, ²Nathan Kline Institute for Psychiatric Research, Orangeburg, NY

D53 Functional contribution of the arcuate fasciculus to language processing: A tractography study in individuals with stroke Maria V. Ivanova^{1,2}, Allison Zhong¹, And Turken¹, Brian Curran¹, Nina F. Dronkers^{1,3,4}; ¹Center for Aphasia and Related Disorders, VA Northern California Health Care System, Martinez, California, USA, ²National Research University Higher School of Economics, Center for Language and Brain, Moscow, Russian Federation, ³University of California, Davis, California, USA, ⁴University of California, Berkeley, California, USA

D54 Neural plasticity and right hemisphere contributions to recovery of sentence comprehension in aphasia: evidence from sentence processing treatment Elena Barbieri¹, Jennifer E. Mack¹, Brianne M. Chiappetta¹, Eduardo R.H. Europa¹, Cynthia K. Thompson¹; ¹Northwestern University

D55 Picture description versus picture naming: assessing language deficits following dominant hemisphere tumour resection. Sonia Brownsett^{1,2}, Kori Ramajoo^{1,2}, Katie McMahon³, Hanna Gauvin^{1,2}, Greig de Zubizaray^{1,2}; ¹Faculty of Health, School - Psychology and Counselling, QUT, ²Institute of Health Biomedical Innovation, QUT, ³Faculty of Health, School - Clinical Sciences, QUT

D56 Relative Contributions of Lesion Location and Lesion Size to Predictions of Varied Language Deficits in Post-Stroke Aphasia Melissa Thye¹, Daniel Mirman¹; ¹University of Alabama at Birmingham

Multilingualism

D57 The influence of bilingual language experience on verbal fluency and brain structure and function Shanna Koussaie¹, Shari Baum^{2,3}, Natalie A. Phillips^{2,4,5}, Vincent Gracco^{2,3,6}, Debra Titone^{2,7}, Jen-Kai Chen^{1,2}, Denise Klein^{1,2}; ¹Cognitive Neuroscience Unit, Montreal Neurological Institute, McGill University, Montreal, QC, H3A 2B4, Canada, ²Centre for Research on Brain, Language and Music, McGill University, Montreal, QC, H3G 2A8, Canada, ³School of Communication Sciences and Disorders, Faculty of Medicine, McGill University, Montreal, QC, H3A 1G1, Canada, ⁴Department of Psychology/ Centre for Research in Human Development, Concordia University, Montreal, QC, H4B 1R6, Canada, ⁵Bloomfield Centre for Research in Aging, Lady Davis Institute for Medical Research and Jewish General Hospital/McGill University Memory Clinic, Jewish General Hospital, Montreal, QC, H3T 1E2, Canada, ⁶Haskins Laboratories, New Haven, CT, 06511, USA, ⁷Department of Psychology, McGill University Montreal, QC, H3A 1G1, Canada

D58 Pardon My Code-Switching: Electrophysiological Effects of Mixing within the Determiner Phrase Leah Gosselin¹, Michèle Burkholder¹, Laura Sabourin¹; ¹University of Ottawa

D59 Working Memory Filtering and Individual Differences in Second Language Aptitude Chantel Prat¹, Malayka Mottarella¹, Brianna Yamasaki¹; ¹University of Washington

D60 Neural correlates of between-language competition in foreign language attrition Anne Mickan^{1,2}, James M. McQueen², Vitória Piai^{2,3}, Kristin Lemhöfer²; ¹Max-Planck Institute for Psycholinguistics, ²Donders Centre for Cognition, Radboud University Nijmegen, ³Department of Medical Psychology, Radboudumc

D61 Linking Second Language Proficiency and Naming Failures in Native Language: An fMRI Study Katy Borodkin¹, Abigail Livny-Ezer^{2,3}, Galia Tsarfaty², Miriam Faust^{4,5}; ¹Department of Communication Disorders, Sackler Faculty of Medicine, Tel Aviv University, ²Department of Diagnostic Imaging, Sheba Medical Center, ³Joseph Sagol Neuroscience Center, Sheba Medical Center, ⁴The Leslie and Susan Gonda (Golschmied) Multidisciplinary Brain Research Center, Bar-Ilan University, ⁵Department of Psychology, Bar-Ilan University

D62 Beyond dementia: interaction of bilingualism and neurodegeneration Toms Voits¹, Holly Robson¹, Jason Rothman¹, Christos Pliatsikas¹; ¹University of Reading

D63 The relationship between resting state networks and bilingual reading: A preliminary investigation Jason Gullifer^{1,4}, Xiaojian Chai^{2,4}, Veronica Whitford^{3,4}, Irina Pioneva^{1,4}, Shari Baum^{1,4}, Denise Klein^{1,4}, Debra Titone^{1,4}; ¹McGill University, ²Johns Hopkins University, ³University of Texas at El Paso, ⁴Centre for Research on Brain, Language & Music

D64 The Effects of Short-term Literacy Training on Phonological Awareness Brenda Guerrero¹, Angelique M. Blackburn¹; ¹Texas A&M International University, ²Texas A&M International University

Signed Language and Gesture

D65 Gesture incongruity effects on speech preserved with verbal but not visuospatial WM load: An ERP study Jacob Momen^{1,2}, Jared Gordon¹, Seana Coulson¹; ¹University of California San Diego, ²San Diego State University

D66 ERP evidence for implicit co-activation of English during recognition of American Sign Language Brittany Lee^{1,2}, Gabriela Meade^{1,2}, Megan Mott¹, Katherine J. Midgley¹, Phillip J. Holcomb¹, Karen Emmorey¹; ¹San Diego State University, ²University of California, San Diego

D67 ERPs in multimodal language comprehension: How discourse information and synchrony influence gesture-speech processing *Isabella Fritz^{1,3}, Sotaro Kita², Jeannette Littlemore³, Andrea Krott³; ¹Norwegian University of Science and Technology (NTNU), ²University of Warwick, ³University of Birmingham*

Computational Approaches

D68 A simulation-based approach to statistical power with ERPs *Chia-Wen Lo¹, Jonathan Brennan¹; ¹University of Michigan*

D69 Discern: a computational model of naming deficits in bilingual speakers with aphasia *Claudia Penalzoza¹, Uli Grasemann², Maria Dekhtyar¹, Risto Miikkulainen², Swathi Kiran¹; ¹Boston University, ²The University of Texas at Austin*

D70 Flexible meaning: the neuromodulation of noun meaning by a prior verb *Bingjiang Lyu¹, Alex Clarke¹, Hun Choi¹, Lorraine Tyler¹; ¹Department of Psychology, University of Cambridge*

Poster Session E

Saturday, August 18, 3:00 – 4:45 pm, Room 2000AB

Control, Selection, and Executive Processes

E1 Semantic diversity affects word processing similarly for PWA with and without semantic deficits: Evidence against the semantic control hypothesis *Curtiss Chapman¹, Randi Martin¹; ¹Rice University*

E2 The Lifelong Impact of Language Context on the Neural Correlates of Switching *Alexandra Reyes¹, Angelique Blackburn¹; ¹Texas A&M International University*

E3 Is the Ventrolateral Prefrontal Cortex language-specific or domain-general? An intracranial-EEG study *Marcela Perrone-Bertolotti¹, Samuel El Bouzaïdi Tiali¹, Richard Palluel-Germain¹, Lorella Minotti^{2,3,4}, Anne-Sophie Job^{2,3,4}, Philippe Kahane^{2,3,4}, Monica Baci¹, Jean-Philippe Lachaux^{5,6}; ¹Univ. Grenoble Alpes, CNRS, LPNC UMR 5105, 38000, Grenoble, France, ²Univ. Grenoble Alpes, Institut des Neurosciences, GIN, 38000 Grenoble, France, ³CHU Grenoble Alpes, Pôle Neurologie Psychiatrie, 38000, Grenoble, France, ⁴INSERM, U1216, F-38000, Grenoble, France, ⁵INSERM, U1028, CNRS, UMR5292, Lyon Neuroscience Research Center, Brain Dynamics and Cognition Team, DYCOG, Lyon F-69000, France, ⁶Lyon's University, Lyon, France*

E4 Neural tracking of attended continuous speech in early and late bilinguals *Andrea Olguin¹, Mario Cekic², Tristan A. Bekinschtein¹, Mirjana Bozic¹; ¹Department of Psychology, University of Cambridge, ²Department of Computer Science and Technology, University of Cambridge*

Phonology and Phonological Working Memory

E5 Resting state and task-related neural oscillations in adults who stutter and controls implicate deficits in sensorimotor integration *Andrew Bowers¹, Dan Hudock², Lisa Bowers¹, Heather Ramsdell-Hudock²; ¹University of Arkansas, ²Idaho State University*

E6 Investigating brain lateralization during speechreading and reading in deaf adults using functional transcranial Doppler sonography (fTCD). *Eva Gutierrez-Sigut^{1,2}, Victoria Mousley², Laura Monroy², Sophie Harte², Mairead MacSweeney²; ¹University of Valencia, ²University College London*

E7 Neurobiological correlates of age-related auditory verbal working memory decline *Maxime Perron¹, Isabelle Deschamps¹, Julie Poulin¹, Pascale Tremblay¹; ¹Université Laval, Centre de recherche CERVO*

Perception: Speech Perception and Audiovisual Integration

E8 Word Learning Influences Phonotactic Repair: A Granger Analysis of MR-constrained MEG/EEG data *Adriana Schoenhaut¹, Mulliner Cody³, Ahlfors Seppo^{1,2}, Gow David^{1,2,3}; ¹Massachusetts General Hospital, ²Athinoula A. Martinos Center for Biomedical Imaging, ³Salem State University*

E9 Using machine learning to model effects of attention and language-experience on neural phonemic constancy *Fernando Llanos¹, Rachel Reetzke¹, Zilong Xie¹, Liberty Hamilton¹, Bharath Chandrasekaran^{1,2,3,4,5}; ¹Department of Communication Sciences and Disorders, The University of Texas at Austin, ²Institute for Mental Health Research, The University of Texas at Austin, ³Department of Psychology, The University of Texas at Austin, ⁴Department of Linguistics, The University of Texas at Austin, ⁵Institute for Neuroscience, The University of Texas at Austin*

E10 Emotionally expressed voices are retained in memory following a single exposure *YOON JI KIM^{1,2}, John Sidtis^{2,1}, Diana Van Lancker Sidtis^{1,2}; ¹New York University, ²Nathan Kline Institute for Psychiatric Research*

E11 The Development of Mismatch Response to Vowels and Initial Consonants from birth to 24 Months *Ying-Ying Cheng¹, Chia-Ying Lee¹; ¹Institute of Linguistics, Academia Sinica, Taiwan*

E12 Formal and temporal predictions in speech perception *Alexandra K. Emmendorfer^{1,2,3}, Joao Correia^{1,2,4}, Joëlle Schroën¹, Bernadette M. Jansma^{1,2}, Sonja A. Kotz³, Milene L. Bonte^{1,2}; ¹Department of Cognitive Neuroscience, Faculty of Psychology and Neuroscience, Maastricht University, Maastricht, The Netherlands, ²Maastricht Brain Imaging Center, Faculty of Psychology and Neuroscience, Maastricht University, Maastricht, The Netherlands, ³Department of Neuropsychology*

and Psychopharmacology, Faculty of Psychology and Neuroscience, Maastricht University, Maastricht, The Netherlands, ⁴Basque Center on Cognition, Brain and Language, San Sebastian, Spain

E13 Electrophysiological Evidence of Early Lexical Influences on Sub-lexical Processing: Evidence from the Ganong Paradigm Colin Noe¹, Simon Fischer-Baum¹; ¹Rice University, Department of Psychology

E14 Neurophysiological correlates of directional asymmetries in adult vowel perception: An auditory brainstem study Matthew Masapollo¹, T. Christina Zhao², Linda Polka^{3,4}, Lucie Ménard^{4,5}; ¹Boston University, ²Institute for Learning & Brain Sciences, University of Washington, ³McGill University, ⁴Center for Research on Brain, Language & Music, ⁵University of Quebec at Montreal

Perception: Auditory

E15 Human cortical encoding of a discrete temporal landmark for processing syllables in continuous speech Yulia Oganian¹, Edward F. Chang¹; ¹University of California, San Francisco

E16 Structural connectivity across stimulation-defined critical language areas Brian H. Silverstein¹, Eishi Asano^{1,2}, Yasuo Nakai^{2,3}, Jeong-won Jeong^{1,2}; ¹Wayne State University, Detroit, MI, USA, ²Children's Hospital of Michigan, Detroit, MI, USA, ³Wakayama Medical University, Wakayama, JPN

E17 Investigating non-verbal vocal communication with fNIRS Addison Niemeyer¹, Sophie Scott¹; ¹Institute of Cognitive Neuroscience, University College London

E18 Temporal voice areas exist in autism spectrum disorder but are dysfunctional for voice identity recognition Stefanie Schelinski^{1,2}, Kamila Borowiak^{1,2,3}, Katharina von Kriegstein^{1,2}; ¹Max Planck Institute for Human Cognitive and Brain Sciences, ²Technical University of Dresden, ³Berlin School of Mind and Brain, Humboldt University of Berlin

E19 Phonetic content of auditory representations Ryan Rhodes¹, Chao Han¹; ¹University of Delaware

Perception: Orthographic and Other Visual Processes

E20 The Role of left Fusiform gyrus in Chinese character recognition: an ERP study using Adaptation Paradigm Rui Zhang¹, Shujuan Liu¹, Xiangyang Zhang¹, Jianfeng Yang¹; ¹Shaanxi Normal University

E21 Priming effects between fingerspelled fonts and printed letters Zed Sevcikova Sehyr¹, Jamie Renna¹, Stephanie Osmond¹, Katherine Midgley¹, Phillip Holcomb¹, Karen Emmorey¹; ¹San Diego State University

E22 Asymmetrical connectivity underlying the right visual field advantage in lateralized lexical decision Jed Meltzer^{1,2}, Ronald Chu^{1,2}; ¹Baycrest Hospital, ²University of Toronto

E23 Statistical learning and reading: An information-theoretical perspective Noam Siegelman¹, Victor Kuperman², Ram Frost^{1,3,4}; ¹Hebrew University of Jerusalem, ²McMaster University, ³Haskins Laboratories, ⁴Basque center of Cognition, Brain and Language (BCBL)

E24 Electrophysiological evidence for a left hemisphere bias towards letters as early as 100ms Kurt Winsler^{1,2}, Stephanie Osmond¹, Katherine Midgley¹, Phillip Holcomb¹, Jonathan Grainger³; ¹San Diego State University, ²University of California, Davis, ³Aix-Marseille Université

Grammar: Syntax

E25 Interaction of morphological and long-distance dependency processing: MEG evidence Suhail Matar^{1,2}, Ryan King¹, Wesley Leong¹, Liina Pylkkänen^{1,2}; ¹New York University, ²NYU Abu Dhabi Research Institute

E26 Predicting what, when, and how in the course of Japanese classifier-noun comprehension Hiromu Sakai¹, Yohei Oseki¹, Naho Orita²; ¹Waseda University, ²Tokyo University of Science

E27 Producing sentences in the MRI scanner: Effects of lexicality and verb arguments Atsuko Takashima¹, Antje Meyer¹, Peter Hagoort^{1,2}, Kirsten Weber^{1,2}; ¹Max Planck Institute for Psycholinguistics, Nijmegen, the Netherlands, ²Donders Institute for Brain, Cognition and Behaviour, Nijmegen, the Netherlands

Meaning: Lexical Semantics

E28 Dissociating the Role of Repetition and Semantic Association Neus Ramos Escobar^{1,2}, Clement Francois^{1,2}, Mtti Laine³, Antoni Rodriguez-Fronells^{1,2,4}; ¹Cognition and Brain Plasticity Group, Bellvitge Biomedical Research Institute (IDIBELL), L'Hospitalet de Llobregat, Barcelona, Spain, ²Department of Basic Psychology, Campus Bellvitge, University of Barcelona, L'Hospitalet de Llobregat, Barcelona 08097, Spain, ³Department of Psychology, Abo Akademi University, Turku, Finland, ⁴Catalan Institution for Research and Advanced Studies, ICREA, Barcelona, Spain

E29 Network Analysis of Concreteness within Association Modules Dominick DiMercurio¹, Chaleece Sandberg¹; ¹Pennsylvania State University

E30 Learning Novel Words with Meanings: The Role of Consolidation in Word Learning and Memory Retention Yushuang Liu¹, Janet G. van Hell¹; ¹The Pennsylvania State University

E31 Anterior temporal lobe in identification of specific entities Nicholas Riccardi¹, Rutvik Desai¹; ¹University of South Carolina

E32 Frequency, orthographic neighborhood, and concreteness effects in deaf readers of English: An ERP study Stephanie Osmond¹, Kurt Winsler², Gabriela Meade^{1,3}, Phillip J Holcomb¹, Katherine J Midgley¹, Karen Emmorey¹; ¹San Diego State University, ²University of California, Davis, ³University of California, San Diego

E33 Temporal and spatial differences in the lexical and morphosyntactic incongruence processing María Francisca Alonso-Sánchez^{1,2}, Lucía Zepeda^{1,3}, Pavel Prado³, Pedro Alfaro-Faccio⁴, Debra von Christmar⁴; ¹Escuela de Fonoaudiología, Facultad Salud, Universidad Santo Tomás, ²Centro de investigación del desarrollo en cognición y lenguaje (CIDCL), Universidad de Valparaíso, ³Advanced Center for Electrical and Electronic Engineering (AC3E), Universidad Federico Santa María, ⁴Instituto de Literatura y Ciencias del Lenguaje (ILCL), Pontificia Universidad Católica de Valparaíso

E34 Rapid meaning access to newly learned words: Evidence from an ERP study Xiaoping Fang^{1,2}, Charles Perfetti^{1,2}; ¹University of Pittsburgh, ²Center for Neural Basis of Cognition

Meaning: Combinatorial Semantics

E35 The influence of word imageability on the N400 effect: Preliminary results Marilyne Joyal¹, Sonja A. Kotz², Christophe Lenglos¹, Emmanuelle Renaud¹, Maximiliano A. Wilson¹, Shirley Fecteau¹; ¹Université Laval, ²Maastricht University

E36 Catecholaminergic modulation of the semantic processing in sentence comprehension Yingying Tan¹, Peter Hagoort^{1,2}; ¹Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, ²Donders Institute for Brain, Cognition and Behaviour Centre for Cognitive Neuroimaging, Radboud University, Nijmegen, The Netherlands

Meaning: Discourse and Pragmatics

E37 Pragmatic language comprehension in the adolescent brain Salomi S. Asaridou¹, Özlem Ece Demir-Lira², Julia Uddén³, Susan Goldin-Meadow², Steven L. Small¹; ¹Department of Neurology, University of California, Irvine, ²Department of Psychology, The University of Chicago, ³Department of Psychology, Stockholm University

E38 In search of association patterns between perisylvian white matter tracts and different speech genres Georgia Angelopoulou^{1,2}, Dimitrios Kasselimis^{1,3}, Erin Meier³, Sofia Karanassou⁴, Yue Pan², Dimitrios Tsolakopoulos¹, Zoi Nikitopoulou⁴, Ioannis Evdokimidis¹, Swathi Kiran³, Constantin Potagas¹; ¹Eginition University Hospital - National and Kapodistrian University of Athens, ²College of Health & Rehabilitation, Boston University, ³University of Crete, ⁴Panteion University of Athens

E39 Integrating speaker and meaning in individuals with and without Autism Spectrum Disorder: evidence from eye-tracking and ERPs Mahsa Mirza Hossein Barzy¹, Jo S Black¹, David M Williams¹, Heather J Ferguson¹; ¹University of Kent

E40 Effect of functional style incongruency on language comprehension: an ERP study in Russian Anna Yurchenko¹, Mira Bergelson¹, Olga Dragoy¹; ¹National Research University Higher School of Economics, Russian Federation

Language Therapy

E41 Classification of fMRI Data in Aphasia Based on Task, Time Point, and Subject E. Susan Duncan¹, Steven L. Small²; ¹Louisiana State University, ²University of California, Irvine

E42 The effects of different exercise intensities on word learning in ageing: a randomised controlled trial. Marie-Pier Mc Sween^{1,2,3,4}, Katie L. McMahon³, Jeff S. Coombes⁴, Kylie Maguire⁴, Amy D. Rodriguez^{1,5}, Kirk I. Erickson⁶, David A. Copland^{1,2}; ¹School of Health and Rehabilitation Sciences, The University of Queensland, Brisbane, Australia, ²UQ-CCR, The University of Queensland, Brisbane, Australia, ³Centre for Advanced Imaging, The University of Queensland, Brisbane, Australia, ⁴School of Human Movement and Nutrition Sciences, The University of Queensland, Brisbane, Australia, ⁵Centre for Visual and Neurocognitive Rehabilitation, Department of Veterans Affairs, Atlanta, USA, ⁶The Department of Psychology, The University of Pittsburgh, Pittsburgh, USA.

Language Disorders

E43 Aphasia therapy results in differential changes in functional connectivity depending on treatment response Jeffrey P. Johnson¹, Erin L. Meier¹, Yue Pan¹, Swathi Kiran¹; ¹Boston University

E44 Continuous theta burst stimulation over right pars triangularis facilitates naming abilities in chronic post-stroke aphasia by enhancing phonological access Denise Y. Harvey^{1,2}, Joely A Mass¹, Priyanka P Shah-Basak¹, Rachel Wurzman¹, Olufunsho Faseyitan¹, Daniela L Sacchetti¹, Laura DeLoretta¹, Roy H Hamilton¹; ¹Department of Neurology, University of Pennsylvania, ²Research Department, Moss Rehabilitation Research Institute

E45 Neural Correlates of Impaired Emotional Prosody Recognition in Acute Right Hemisphere Stroke Shannon M. Sheppard¹, Lynsey M. Keator¹, Bonnie L. Breining¹, Kevin Kim¹, Sadhvi Saxena¹, Donna Tippet^{1,2,3}, Amy Wright¹, Argye E. Hillis^{1,2,3}; ¹Department of Neurology, Johns Hopkins University School of Medicine, Baltimore, MD 21287, ²Department of Physical Medicine and Rehabilitation, Johns Hopkins University School of Medicine, Baltimore, MD 21287, ³Department of Cognitive Science, Krieger School of Arts and Sciences, Johns Hopkins University, Baltimore, MD 21218

E46 Bilingualism delays age of symptom onset in the language variant but not the amnesic variant of Alzheimer's dementia Jessica de Leon;¹

E47 Explicit synchrony of speech and gestures in autism spectrum disorder Inge-Marie Eigsti¹, Wim T. J. L. Pouw¹; ¹University of Connecticut

E48 Bimodal language in post-ictal aphasia: a descriptive study Alexia Fasola^{1,2}, Marion Tellier³, François-Xavier Alario², Carlo Alberto Tassinari⁴, Agnès Trebuchon¹; ¹Aix Marseille Univ, INSERM, INS, Inst Neurosci Syst, Marseille, France, ²Aix Marseille Univ, CNRS, LPC, Marseille, France, ³Aix Marseille Univ, CNRS, LPL, Aix-en-Provence, France, ⁴Department of Neurological Sciences, University of Bologna, Bologna, Italy

E49 Speech compensation behavior for unexpected errors is related to language performance beyond repetition skill in aphasia Lorelei Phillip¹, Roozbeh Behroozmand¹, Julius Fridriksson¹; ¹University of South Carolina, Columbia, South Carolina

E50 Cortical entrainment of continuous speech envelope is preserved in non-fluent variant PPA Heather Dial¹, Benjamin Zinszer¹, Bharath Chandrasekaran¹, Maya Henry¹; ¹University of Texas at Austin

E51 Production and Perception of Sentence Focus in Individuals with Parkinson's Disease Who Speak Mandarin Xi Chen^{1,2}, Diana Van Lancker Sidits^{1,2}; ¹New York University, ²Brain and Behavior Laboratory, Geriatrics, The Nathan Kline Institute

Language Development

E52 The Relationship Between Socioeconomic Status and White Matter Coherence in Pre-Reading Children: A Longitudinal Investigation Ola Ozernov-Palchik^{1,4}, Elizabeth S Norton², Yingying Wang³, Sara D. Beach¹, Jennifer Zuk⁴, John D. E. Gabrieli¹, Nadine Gaab⁴; ¹Department of Brain and Cognitive Sciences and McGovern Institute for Brain Research, Massachusetts Institute of Technology, Cambridge, MA, ²Department of Communication Sciences and Disorders, Department of Medical Social Sciences, and Institute for Innovations in Developmental Sciences, Northwestern University, Evanston, IL, ³College of Education and Human Sciences, University of Nebraska, Lincoln, NE, ⁴Harvard Medical School, Boston, Massachusetts Boston Children's Hospital, Boston, MA, ⁵Laboratories of Cognitive Neuroscience, Division of Developmental Medicine, Department of Medicine, Boston Children's Hospital, Boston, MA

E53 Ortho-semantic learning of novel words in English-speaking Grade 3 students Alena Galilee¹, Lisa Beck¹, Catherine Mimeau², S. Hélène Deacon¹, Aaron J Newman¹; ¹Dalhousie University, Halifax, Nova Scotia, Canada, ²Université Laval, Quebec City, Canada

E54 Early interactive acoustic experience with non-speech modulates phase synchronization of evoked gamma to speech at 18-months-of-age Silvia Ortiz-Mantilla¹, Teresa Realpe-Bonilla¹, April A Benasich¹; ¹Center for Molecular and Behavioral Neuroscience, Rutgers University Newark, NJ, USA

E55 Developmental changes in neural connectivity of semantic processing in youths with autism and typically developing youths Min Liu¹, Susan Shur-Fen Gau^{1,2,3,4}, Tai-Li Chou^{1,3,4}; ¹Department of Psychology, National Taiwan University, Taipei, Taiwan, ²Department of Psychiatry, National Taiwan University Hospital and College of Medicine, Taipei, Taiwan, ³Neurobiology and Cognitive Science Center, National Taiwan University, Taipei, Taiwan, ⁴Graduate Institute of Brain and Mind Sciences, National Taiwan University, Taipei, Taiwan

Multilingualism

E57 Learning to Read a Second Orthography Recruits the Visual Word Form Area and a Broader Reading Network Lea Martin^{1,2}, Corrine Durisko^{1,3}, Michelle W. Moore⁴, Julie A. Fiez^{1,2,3}; ¹University of Pittsburgh, PA, ²Center for the Neural Basis of Cognition, University of Pittsburgh, PA, ³Learning Research and Development Center, University of Pittsburgh, PA, ⁴West Virginia University, Morgantown, WV

E58 Model of weighted phonological similarity for predicting bilingual lexical retrieval Danielle Fahey¹; ¹University of South Carolina

E59 Using the EAR to Track Bilingual Language Use Alessandra Macbeth¹, Michelle Bruni¹, Emily N. Mech¹, Justin T. Sarkis¹, Alexander Karan¹, Megan L. Robbins¹, Christine Chiarello¹; ¹University of California, Riverside

E60 Electrophysiological correlates of first and second language: A within-subjects view of semantics and grammar Sarah Grey¹; ¹Fordham University

E61 Neurobiological signatures of L2 proficiency Henry Brice¹, W. Einar Mencl², Stephen J. Frost², Atira S. Bick^{1,4}, Jay G. Rueckl^{2,3}, Kenneth R. Pugh^{2,3}, Ram Frost^{1,2}; ¹The Hebrew University of Jerusalem, ²Haskins Laboratories, ³University of Connecticut, ⁴Hadassah Hebrew University Medical Center

E62 Neural plasticity of language production networks associated with language learning Kshipra Gurunandan¹, Manuel Carreiras^{1,2}, Pedro M. Paz-Alonso¹; ¹BCBL - Basque Center on Cognition, Brain and Language, San Sebastián, Spain, ²Ikerbasque - Basque Foundation for Science, Bilbao, Spain

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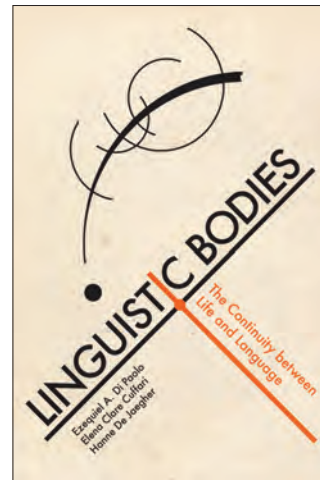
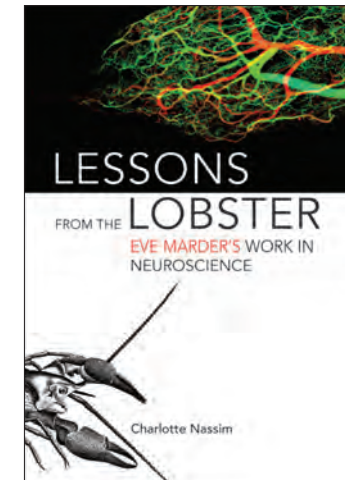
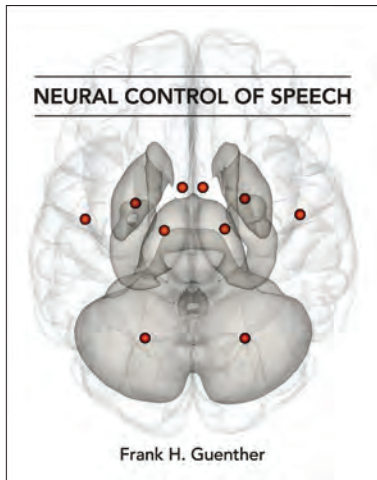
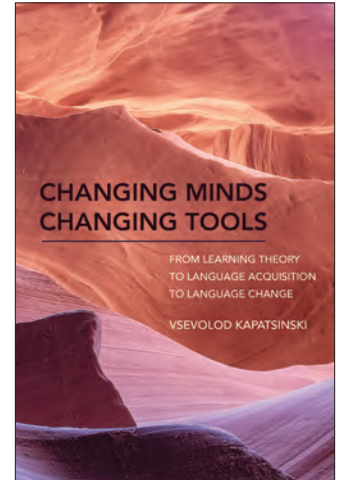
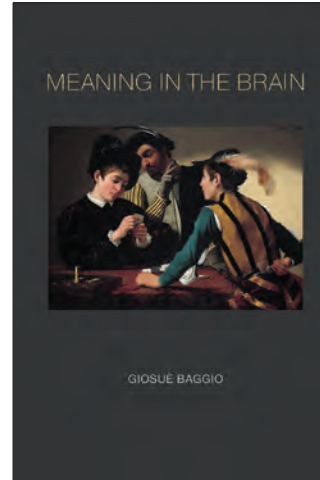
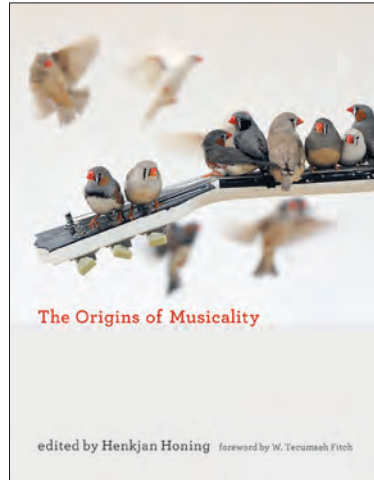
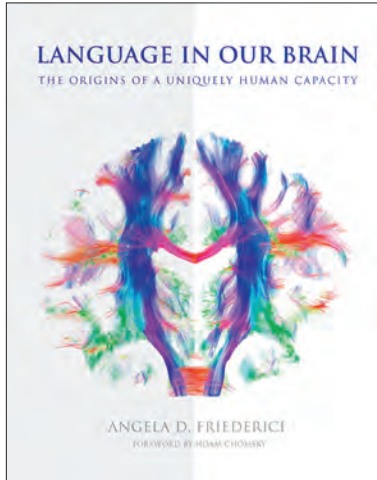
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