



SOCIETY FOR THE
NEUROBIOLOGY OF
LANGUAGE

Newsletter

APRIL 2022



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SNL 2022 | OCTOBER 6-8, 2022

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Society's Journal

Neurobiology of Language is the open-access journal sponsored by the Society for the Neurobiology of Language and MIT Press. Launched in March 2019, the journal provides a new venue for articles across a range of disciplines addressing the neurobiological basis of speech and language. To learn more about Neurobiology of Language and how to submit articles, go to

<https://www.mitpressjournals.org/nol>.



Neurobiology
of Language



Job Postings and Announcements

If you have a job posting, general announcement, or conference that you would like to include in the SNL Newsletter, please send it to newsletter@neurolang.org





Job Postings

Research Specialist at UPenn

The Laboratory for Cognition and Neural Stimulation (LCNS) at the University of Pennsylvania, directed by Roy Hamilton, PhD, MD, is seeking to immediately fill two full-time paid research specialist positions. Each of these positions offers hands-on engagement with state-of-the-art neurobiological research. One position in LCNS will be dedicated to characterizing and testing people with acquired language impairments (e.g., primary progressive aphasia and post-stroke aphasia) as they participate in an NIH-funded clinical trial under the direction of Dr. Roy Hamilton. The second position, under the direction of Dr. Kelly Sloane, involves research on topics including cognition, executive control, and mechanisms of neuroplasticity after brain injury.

A bachelor's degree is required for these positions. Applicants should have a strong academic background in cognitive psychology/cognitive science, psycholinguistics, linguistics, speech & hearing science, neuropsychology and/or neuroscience, with coursework in statistics and research methods. Preference will be given to applicants with prior research experience and coursework in relevant areas. Other qualifications include:

- Evidence of excellent organizational and communication skills;
- Demonstration of willingness and ability to flexibly learn new techniques in a dynamic environment; and
- Prior experience in a human subjects research setting is strongly preferred

Applications will be accepted until the positions are filled. Positions are available immediately.

Interested applicants should contact Olu Faseyitan at faseyita@penmedicine.upenn.edu or apply directly to the job postings via the following links:

Dr. Roy Hamilton Job Posting Announcement
<https://wd1.myworkdaysite.com/en-US/recruiting/upenn/careers-at-penn/job/HUP/Research-Specialist-B-Neurology-JR00035132-1>

Dr. Kelly Sloane Job Posting Announcement
<https://wd1.myworkdaysite.com/recruiting/upenn/careers-at-penn/job/HUP/Research-Specialist-A-B-Neurology-JR00049209-1>



Postdoctoral Position, Vanderbilt University

Applications are invited for a postdoctoral position in the Neural Enhancement of Learning (NEL) Lab in the Department of Special Education of Peabody College, Vanderbilt University. The successful candidate will work with Dr. Katherine Aboud and an interdisciplinary research team using neuroimaging and non-invasive brain stimulation to investigate reading comprehension and text-based learning in adults. The fellow will make research contributions to an innovative collaboration of Vanderbilt faculty and Vanderbilt's interdisciplinary Soldier-Inspired Innovation Incubator to increase our understanding of reading comprehension and learning in the brain, and develop new approaches to brain-based learning enhancement via non-invasive brain stimulation. The fellow will help collect and analyze data from

several projects focused on neuroimaging, learning and stimulation, with the aim of publishing relevant manuscripts. The fellow will receive mentorship from Dr. Aboud.

Key Functions and Expected Performances

Data collection and analysis associated with multi-modal neuroimaging/neuromodulation research (fMRI, EEG, tACS)

- Substantial experience with the collection and analysis of fMRI data, with a strong preference for individuals with experience in multiple neuroimaging modalities (fMRI, EEG, DWI) and neuromodulation (tACS/tDCS, TMS).
- Proficient at overseeing research collection pipelines, including consent processes, data management, quality assurance, protocol compliance documentation and management of research assistants and mentees during data collection efforts.
- Proficiency in advanced neuroimaging analytical methodologies, which could include connectivity/dynamical connectivity analyses, multi-modal (fMRI/EEG) neuroimaging analyses, longitudinal modelling, deep learning and other advanced biostatistical models.
- Substantial training and experience in neuroimaging analytical tools (SPM, FSL, AFNI)
- Understanding and capability to accurately and compliantly perform the procedures required of each study protocol, working collaboratively with study participants, other staff and departments, in safely and accurately performing study procedures. Ability to identify and troubleshoot problems.
- Strong preference will be given to individuals with programming skills (Matlab, R, Python) and big data processing.

Publication and professional development

- Excellent communication skills and professionalism, including the ability to respectfully communicate with research participants, lab team members, and collaborators.
- Motivation to publish first-author papers in the field of neuroscience as well as regular poster presentations at conferences
- Possibility of mentorship of undergraduate and Master's students.

Qualifications

- PhD in cognitive neuroscience or a related field.
- Strong publication record that includes first-author publication in the field of neuroscience.

Preferred Education, Skills, and Experiences:

- Experience administering and scoring standardized tests preferred
- Expertise in reading comprehension and/or learning disabilities preferred.
- Experience in open science practices (e.g. open data, preregistration, BIDS formatting)

Applications should include: a current curriculum vitae, a letter describing clinical and research interests and experience, and the contact information for at least two references. Review of applications will begin immediately and continue until position is filled. Vanderbilt University is an equal opportunity, affirmative action employer with a strong institutional commitment to diversity in all areas.

Contact: Send materials by email to Dr. Aboud (Katherine.aboud@vanderbilt.edu). Informal questions and inquiries may also be directed to Dr. Aboud by email.



Postdoctoral Researcher: Connectivity of the Temporal Lobe Language System (Junior) at the Donders Centre for Cognition

- Employment: 1.0 FTE
- Faculty of Social Sciences
- Required background: PhD
- Application deadline: 6 April 2022

A two-year postdoctoral position on individual differences in the organisation of the brain's language network is available at the Donders Institute for Brain, Cognition and Behaviour at Radboud University Nijmegen. We seek a postdoctoral researcher who is interested in using advanced statistical analysis tools to study how differences in the anatomical organisation of the brain are related to differences in brain function and language behaviour.

You will be responsible for studying individual differences in temporal lobe organisation and language behaviour across a large neuroimaging dataset obtained within the context of the Language in Interaction consortium. You will also be responsible for quality control, pre-processing, and statistical analysis of large neuroimaging datasets including diffusion MRI, resting state fMRI, and task-based fMRI data.

You will adapt and further develop advanced analysis methods to study so-called connectivity gradients, use these to characterise individual variance in brain anatomy, and relate observed variance to functional and behavioural data.

You will communicate with a diverse team of researchers who have designed the study and collected and pre-processed the data thus far. You will translate advanced analysis pipelines developed within the consortium to this dataset and communicate the results to the diverse group of researchers forming the consortium and the larger international scientific community.

You will be expected to become a full member of the Language in Interaction consortium and of the Cognitive Neuroecology Lab and the Sound Learning group at the Donders Centre for Cognition and as such to contribute to lab meetings and consortium meetings, and to perform such scientific citizenship duties that can normally be expected of a postdoctoral researcher.

Profile

- You have a PhD in a field with direct relevance for studying connectivity of the brain's language network in large-scale datasets.
- You have previous training and experience in either neuroimage analysis, neurobiology of language, or (ideally) both.
- You are proficient in coding (preference Matlab, Python, and/or shell) and advanced statistical analyses for neuroimaging data.
- Preferably, you have experience working with large datasets, such as the Human Connectome Project or UK Biobank.
- Preferably you also have affinity with brain anatomy and biology.
- You have a critical and careful approach to science, and strive for robustness and reproducibility of results.
- You are highly organised and adept in communicating project plans and outcomes to others, in both spoken and written form.
- You are interested in working together with researchers from a wide range of backgrounds, including working within a larger consortium where some communication may be partly virtual.

We are

The Netherlands has an outstanding track record in the language sciences. The research consortium 'Language in Interaction', sponsored by a large grant from the Dutch Research Council (NWO), brings together many of the excellent research groups in the Netherlands with a research programme on the foundations of language.

In addition to excellence in the domain of language and related relevant fields of cognition, our consortium provides state-of-the-art research facilities and a research team with ample experience in the complex research methods that will be invoked to address the scientific questions at the highest level of methodological sophistication. These include methods from genetics, neuroimaging, computational modelling, and patient-related research. This consortium realises both quality and critical mass for studying human language at a scale not easily found anywhere else.

You will be appointed at the Donders Institute for Brain, Cognition and Behaviour. The Donders Institute is a world-class interfaculty research centre, that houses more than

700 researchers devoted to understanding the mechanistic underpinnings of the human mind. Research at the Donders Institute is focused around four themes: 1. Language and communication, 2. Perception, action and decision-making, 3. Development and lifelong plasticity, 4. Natural computing & neurotechnology. Excellent, state-of-the-art research facilities are available for the broad range of neuroscience research that is being conducted at the Donders Institute. The Donders Institute has been assessed by an international evaluation committee as 'excellent' and recognised as a 'very stimulating environment for top researchers, as well as for young talent'. The Donders Institute fosters a collaborative, multi-disciplinary, supportive research environment with a diverse international staff. English is the lingua franca at the Institute.

Radboud University

We want to get the best out of science, others and ourselves. Why? Because this is what the world around us desperately needs. Leading research and education make an indispensable contribution to a healthy, free world with equal opportunities for all. This is what unites the more than 24,000 students and 5,600 employees at Radboud University. And this requires even more talent, collaboration and lifelong learning. You have a part to play!

We offer

- Employment for 1.0 FTE.
- The gross monthly starting salary is €3,807 and will be €3,964 (salary scale 11.1) in your second year based on a 38-hour working week.
- You will receive 8% holiday allowance and 8.3% end-of-year bonus.
- It concerns a temporary employment for 2 years.
- You will be able to use our Dual Career and Family Care Services. Our Dual Career and Family Care Officer can assist you with family-related support, help your partner or spouse prepare for the local labour market, provide customized support in their search for employment and help your family settle in Nijmegen.
- Working for us means getting extra days off. In case of full-time employment, you can choose between 29 or 41 days of annual leave instead of the legally allotted 20.
- *Additional employment conditions*

Work and science require good employment practices. This is reflected in Radboud University's primary and secondary employment conditions. You can make arrangements for the best possible work-life balance with flexible working hours, various leave arrangements and working from home. You are also able to compose part of your employment conditions yourself, for example, exchange income for extra leave days and receive a reimbursement for your sports subscription. And of course, we offer a good pension plan. You are given plenty of room and responsibility to develop your talents and realise your ambitions. Therefore, we provide various training and development schemes.

Would you like more information?

For questions about the position, please contact Rogier Mars, Principal Investigator at rogier.mars@donders.ru.nl. Alternatively, you can contact James McQueen, Professor/Director at james.mcqueen@donders.ru.nl.

Practical information and applications

You can apply until 6 April 2022, exclusively using the button below. Kindly address your application to Rogier Mars. Please fill in the application form and attach the following documents:

- A letter of motivation.
- Your CV including the names of at least two persons who can provide references.
- The first interviews will take place on Tuesday 26 April. You would preferably begin employment on 1 July 2022 or as soon as possible thereafter.

We can imagine you're curious about our application procedure. It offers a rough outline of what you can expect during the application process, how we handle your personal data and how we deal with internal and external candidates.

We drafted this vacancy to find and hire our new colleague ourselves. Recruitment agencies are kindly requested to refrain from responding.



Postdoctoral Research Position, University of South Carolina

Postdoctoral Fellow: Cognitive Neuroscience of Semantics. A post-doctoral research position is available in the laboratory of Dr. Rutvik Desai at the University of South Carolina, Department of Psychology. The lab focuses on cognitive neuroscience of language and neural representation of concepts using neuroimaging, brain stimulation, patient studies, lesion-symptom mapping, and computational modeling. Excellent facilities for fMRI, TMS, tDCS, EEG, and eye tracking are available. The Fellow will have an exciting opportunity to pursue collaborative and self-directed projects at the Institute for Mind and Brain (<http://mindandbrain.sc.edu/>).

Candidates with a PhD in any of the cognitive sciences (e.g., Psychology, Neuroscience, Computer Science) are welcome to apply. A research background in cognitive neuroscience/cognitive science, relevant to semantic or language processing, is required. Expertise with fMRI (including MVPA), or brain stimulation (TMS or tDCS) is required. Experience in one or more of lesion-symptom mapping, behavioral testing or imaging of patient populations, EEG, connectionist modeling, or machine learning is also a positive, along with skills in programming and statistics (e.g., Python, Matlab, R). A promising publication record is a plus. Salary will be commensurate with experience. Applications should include a CV, brief statement of research experience and interests, and names of three referees (who will be asked for a reference letter if necessary; actual letters are not required initially). Expected starting date is Fall 2022, but is flexible. Applications should be sent to rutvik@sc.edu and will be assessed as they arrive.

The University of South Carolina is an affirmative action, equal opportunity employer. Women and minorities are encouraged to apply. The University of South Carolina does not discriminate in educational or employment opportunities or decisions for qualified persons on the basis of race, color, religion, sex, national origin, age, disability, sexual orientation or veteran status.



Full-Time Post-doctoral Research Fellow, University of Michigan

We are seeking a full-time post-doctoral research fellow to study computational and neuroscientific models of auditory-visual speech perception. The research fellow will be jointly supervised by Drs. David Brang (<https://sites.lsa.umich.edu/brang-lab/>) and Zhongming Liu (<https://libi.engin.umich.edu>). The goal of this collaboration is to build computational models of perceptual processes using data from intracranial recordings in patients with epilepsy or a brain tumor (iEEG/ECoG). In addition to answering basic scientific questions, this research seeks to improve our understanding of brain tumor physiology to develop novel treatments and neural prostheses in collaboration with Dr. Shawn Hervey-Jumper at UC San Francisco Medical Center (<https://herveyjumperlab.ucsf.edu>).

The successful applicant will also have freedom to conduct additional research based on their interests, using a variety of methods -- iEEG, fMRI, DTI, lesion mapping, and EEG. The ideal start date is from spring to fall 2022 and the position is expected to last for at least two years, with the possibility of extension for subsequent years.

Required qualifications:

A Ph.D. in psychology, neuroscience, biomedical engineering, computer science, or a related field

Experience analyzing neurophysiological signals (EEG, ECoG, MEG, or neurophysiological recordings in animals)

Computational abilities (e.g., machine learning or other advanced oscillatory

analyses)
Demonstrated programming skills
Publication record, written communication abilities, and interpersonal skills

Please contact Dr. David Brang (djbrang@umich.edu) with questions or to apply. Interested applicants should email their CV, a cover letter describing their research interests and career goals, and contact information for 2-3 references.



Job Opportunities at the Hearing Institute in Paris

We seek to hire 2 post-docs and 1 PhD student to join the team Neural Coding and Neuroengineering of Human Speech Functions (dir. Anne-Lise Giraud).

Each job description can be found at the following links:

[post-doc in neurodevelopment](#)

[post-doc in neuroengineering](#)

[PhD student in neurodevelopment](#)



Postdoctoral Researcher: Neural Oscillations and Replay for Generalisation and Novel Inference

- Employment: 1.0 FTE
- Gross monthly salary: € 3,821 - € 5,230
- Donders Centre for Cognitive Neuroimaging
- Required background: PhD
- Application deadline: 14 April 2022

The ability to generate novel, compositional solutions is fundamental to adaptive behaviour in our uncertain world. This generative capacity is commonly studied in domains of action planning, reasoning and vision, but its computational efficiency is also exemplified by our unique ability to create new meaning on the fly, using words, phrases and sentences. MEG provides a unique window onto the temporal evolution of the neural computations underlying novel inference. Are you passionate about integrating insights across domains of action planning, vision and language to unravel the mechanisms of novel inference? As a postdoctoral researcher with MEG/EEG expertise you will be part of a team of researchers studying the computations of novel inference.

As a postdoctoral researcher, you will study the role of neural oscillatory signals and neural replay in the learning and inference of novel meaning for language. Compositionality is fundamental to adaptive behaviour in different cognitive domains (e.g. language, vision, memory and action planning). The human ability to compose complex representations from basic building blocks depends critically on abstract, generalisable knowledge, and implicates the hippocampus and medial prefrontal cortex. What are the neurocomputational mechanisms that underlie inference and generation of the meaning of new words? Are they shared across cognitive domains? If yes, how? The project aims to advance our knowledge of the brain mechanisms of flexible and efficient behaviour, as well as of shared inferential mechanisms across cognitive domains.

To this end, you will design, conduct, analyse and disseminate MEG experiments with a novel paradigm of artificial language learning to probe the neural underpinnings of inference with a focus on theta oscillations, commonly associated with medial prefrontal-hippocampal circuitry. You will also apply representational similarity and sequential decoding analyses to explore the role of computational mechanisms,

commonly associated with the hippocampus, like neural replay.

You will be embedded in Prof. Roshan Cools' Motivational and Cognitive Control group at the Donders Centre for Cognitive Neuroimaging. Moreover, you will be part of the Big Question 5 team of the Language in Interaction research consortium and collaborate closely with Dr Xiaochen Zheng, coordinating postdoctoral researcher of the Big Question 5 team. Finally, you will collaborate with Dr Vitoria Piai at the Donders Centre for Cognition.

Profile

- You are a highly motivated candidate with expertise in electrophysiology (e.g., MEG, EEG), an interest in novel inference for adaptive behaviour, and a collaborative team spirit.
- You hold a PhD in cognitive neuroscience, psychology, or a related field.
- You have demonstrable experience with research using electrophysiological methods.
- You have experience with advanced computational/statistical modelling of cognitive neuroscience data.
- You have a strong interest in the neural computations of human cognition.
- You have a team science mindset.
- You have an excellent command of written and spoken English. A good command of spoken Dutch is desirable but not mandatory.

We are

The Donders Institute for Brain, Cognition and Behavior is a world-class interfaculty research Centre that houses more than 700 researchers devoted to understanding the mechanistic underpinnings of the human mind. Research at the Donders Institute is focused around four themes: 1. Language and communication, 2. Perception, action and control, 3. Plasticity and memory, 4. Neural computation and neurotechnology. Excellent, state-of-the-art research facilities are available for the broad range of neuroscience research that is being conducted at the Donders Institute. The Donders Institute has been assessed by an international evaluation committee as excellent and recognized as a 'very stimulating environment for top researchers, as well as for young talent'. The Donders Institute fosters a collaborative, multidisciplinary, supportive research environment with a diverse international staff. English is the lingua franca at the Institute.

The mission of the Donders Centre for Cognitive Neuroimaging (DCCN) is to conduct cutting-edge fundamental research in cognitive neuroscience. Much of the rapid progress in this field is being driven by the development of complex neuroimaging techniques for measuring activity in the human brain - an area in which the Centre plays a leading role. The research themes cover central cognitive functions, such as perception, action, control, emotion, decision-making, attention, memory, language, learning and plasticity. The Centre also aims to establish how the different brain areas coordinate their activity with very high temporal precision to enable human and animal cognition. Our internationally renowned Centre currently hosts more than 100 PhD candidates and postdoctoral researchers from more than 25 countries, offering a stimulating and multidisciplinary research environment. The Centre is equipped with four MRI scanners (7T, 3x 3T), a 275-channel MEG system, an EEG-TMS laboratory, several (MR-compatible) EEG systems, and high-performance computational facilities.

Radboud University

We want to get the best out of science, others and ourselves. Why? Because this is what the world around us desperately needs. Leading research and education make an indispensable contribution to a healthy, free world with equal opportunities for all. This is what unites the more than 24,000 students and 5,600 employees at Radboud University. And this requires even more talent, collaboration and lifelong learning. You have a part to play!

We offer

- Employment for 1.0 FTE.
- The gross monthly salary amounts to a minimum of €3,821 and a maximum of €5,230 based on a 38-hour working week, depending on previous education and number of years of relevant work experience (salary scale 11).
- You will receive 8% holiday allowance and 8.3% end-of-year bonus.
- This is a temporary position on a fixed-term contract for the maximum duration of 2 years.

- You will be able to use our Dual Career and Family Care Services. Our Dual Career and Family Care Officer can assist you with family-related support, help your partner or spouse prepare for the local labour market, provide customized support in their search for employment and help your family settle in Nijmegen.
- Working for us means getting extra days off. In case of full-time employment, you can choose between 29 or 41 days of annual leave instead of the legally allotted 20.
- *Additional employment conditions*

Work and science require good employment practices. This is reflected in Radboud University's primary and secondary employment conditions. You can make arrangements for the best possible work-life balance with flexible working hours, various leave arrangements and working from home. You are also able to compose part of your employment conditions yourself, for example, exchange income for extra leave days and receive a reimbursement for your sports subscription. And of course, we offer a good pension plan. You are given plenty of room and responsibility to develop your talents and realise your ambitions. Therefore, we provide various training and development schemes.

Would you like more information?

For questions about the position, please contact Roshan Cools, Principal Investigator at roshan.cools@donders.ru.nl. Alternatively, you can contact Vitoria Piai, Principal Investigator at vitoria.piai@donders.ru.nl.

Practical information and applications

You can apply until 14 April 2022, exclusively using the button below. Kindly address your application to Roshan Cools. Please fill in the application form and attach the following documents:

- A letter of motivation.
- Your CV including the contact details of two references.
- Your top 2 outputs (e.g. publications).

The first round of interviews will be held on Wednesday 20 April. You would preferably begin employment on 1 June 2022 or as soon as possible.

We can imagine you're curious about our application procedure. It offers a rough outline of what you can expect during the application process, how we handle your personal data and how we deal with internal and external candidates.

We drafted this vacancy to find and hire our new colleague ourselves. Recruitment agencies are kindly requested to refrain from responding.



Open Post-doctoral Positions in Auditory Cognitive Neuroscience Carnegie Mellon University

We are seeking a creative, energetic postdoctoral auditory cognitive (neuro)scientist to join our research team. We have several opportunities for postdoctoral research among a vibrant, international mentoring team that weds the joint expertise of Lori Holt and Barbara Shinn-Cunningham (Carnegie Mellon University), Taylor Abel (University of Pittsburgh) and Frederic Dick and Adam Tierney (UCL and Birkbeck College, University of London).

Our ongoing research projects span MRI/fMRI, scalp electrophysiology, intracerebral cortical recordings in human neurosurgical contexts and behavioral learning paradigms including incidental training embedded in videogames. We welcome applications from energetic early career researchers with an ambition to think hard about how auditory perception intersects with attention, learning and memory across environmental sounds, speech, and voice. Among our funded projects from NIH, NSF, and ESRC, we have ongoing work investigating the impact of learning on selective attention to acoustic dimensions, the role of statistical learning in voice and speech perception and production, general learning mechanisms in dyslexia, learning across continuous second language speech input, and the cortical representation of speech and auditory categories.

The position also will involve many opportunities for professional development and

cross-lab international training. Based in London or Pittsburgh (with many opportunities for research stays in both locations) candidates will join some of the most vibrant and interactive auditory and language research communities in the world. In Pittsburgh, there is a growing and highly interactive Pittsburgh Cognitive Auditory Neuroscience (PCAN) collective committed to understanding the behavioral, psychological and biological bases of human audition. The Center for the Neural Basis of Cognition is also a major hub of interdisciplinary neuroscience research that joins Carnegie Mellon and the immediately adjacent University of Pittsburgh. In London, there is a flourishing auditory cognitive neuroscience community at Birkbeck and UCL, with a wide range of weekly talks, seminars, and a highly collaborative atmosphere. There are also dynamic links with researchers across London universities, and in nearby Oxford and Cambridge. The psychology and neurosciences community in London is one of the world's largest; it is also a major international center for MRI, EEG, and MEG methods development.

Together, these institutions boast research strengths in human, nonhuman animal, and clinical approaches to understanding auditory behavior. The successful candidate will be welcomed into a thriving, interdisciplinary intellectual community. Researchers in this highly supportive environment seek to span disciplines and employ multiple methodologies in their research. Facilities in both locations include state-of-the-art MRI facilities, EEG, NIRS, and MEG systems, and large-scale, high-performance computing clusters situated in a highly collaborative environment.

Pittsburgh, home to Carnegie Mellon University, is consistently rated among the most livable cities in America. With low cost-of-living, a thriving restaurant scene, a wealth of outdoor activities, and an accessible cultural district, there are ample opportunities to cultivate good work-life balance while advancing your scientific goals. The Bloomsbury campus of Birkbeck and UCL in central London has long been a hub of European intellectual life, and is within a few minutes' walking distance to cultural centers and landmarks in London's West End, Soho, Southbank, and many other areas.

We believe that equity and diversity make for better science.

We especially encourage candidates from diverse backgrounds to apply.

Qualifications:

- A passion for thinking big about the auditory system
- A fundamental curiosity about how the brain coordinates auditory behavior, and a willingness to engage in collaborative research in a workplace that values intellectual playfulness
- A PhD in neuroscience, psychology, engineering, or related
- Broad experience with neuroscience or cognitive science literature; previous expertise with auditory cognitive neuroscience research is advantageous
- A computational mindset is highly desirable. Statistical and programming skills (e.g., Matlab, Python, R); One or more years of experience with coding, data analysis, or computational modeling
- Enjoyment of working with and teaching others; willingness to play a role in mentoring more junior researchers in the group
- Fluency in speaking and writing in English
- Demonstrated ability to write results for publication in the scientific literature
- Flexibility, ability to learn quickly
- The ability to work independently as well as part of a scientific team

In the US, compensation will be aligned to the National Institutes of Health salary pay scale, according to experience. In the UK, salaries will be set by the UKRI pay scale. Initial appointments will be for one year, with further funding possible for additional years upon satisfactory performance.

Please apply with a cover letter expressing your research expertise, qualifications, interests, long-term research/career goals and short-term goals for the postdoctoral period. Please also include a CV and the names of at least two references in an email to Christi Gomez (cladams@andrew.cmu.edu). You may direct questions and/or applications to Lori Holt (loriholt@cmu.edu) and Fred Dick (f.dick@ucl.ac.uk). The positions are open immediately and candidates will be sought until the positions are filled.

All institutions do not discriminate in admission, employment, or administration of its programs or activities on the basis of race, color, national origin, sex, handicap or disability, age, sexual orientation, gender identity, religion, creed, ancestry, belief, veteran status, or genetic information. Furthermore, Carnegie Mellon University does not discriminate and is required not to discriminate in violation of federal, state, or local laws or executive orders.



Post-doctoral Research Associate

Summary and Responsibilities: The Language Acquisition and Brain Laboratory (PI: Dr. Zhenghan Qi; <https://qlab.sites.northeastern.edu/>) at Northeastern University is inviting applications for a postdoctoral position to support ongoing projects in the lab. The lab uses a variety of behavioral and neuroimaging techniques such as eye-tracking, EEG, and fMRI to investigate how the neural organization for language processing changes from childhood through adulthood and how differently language networks function in neurodevelopmental disorders, such as autism spectrum disorder, dyslexia, language impairment, and schizophrenia. We also ask how knowledge of our brain might enhance language learning and language intervention. We have several ongoing projects that investigate the contribution of statistical learning, predictive learning, and social cognition in language acquisition in both children and **adults**. **Opportunities** will include leading and participating in ongoing research projects, analyzing rich neuroimaging datasets for publications, developing and writing research proposals, participating in academic mentorship of research assistants and graduate students, dissemination of research findings at professional conferences, and career development resources through Northeastern University and the Greater Boston area.

Qualifications:

Applicants must hold a PhD degree in psychology, neuroscience, communication sciences and disorders, cognitive science, biomedical engineering, or related fields. Applicants should have strong analytical skills with neuroimaging data (EEG, fMRI, MRI, or DTI) and proficient programming skills. Previous experiences working with pediatric population, strong collaboration and organizational skills are highly desirable.

Applicant

Instructions:

Please submit a CV, cover letter, unofficial transcript, and contact information of three references sent to Dr. Zhenghan Qi, at z.qi@northeastern.edu.

Category: Post-doctoral Student

Name of the lab: The Language Acquisition and Brain Laboratory (<https://qlab.sites.northeastern.edu/>)

Name of supervisor: Dr. Zhenghan Qi

Closing date:

Application will be reviewed immediately until the position is filled. The appointment can be renewed annually subject to funding and progress. The expected start date for the position can be negotiable, but ideally summer or early fall 2022.

Job post link: https://northeastern.wd1.myworkdayjobs.com/careers/job/Boston-MA-Main-Campus/Postdoctoral-Research-Associate_R104399



Visiting Assistant Professor, University of Kansas

The Department of Linguistics at the University of Kansas invites applications for a non-tenure track, limited term appointment for two academic years for a Visiting Assistant Professor position to begin as early as August 18, 2022. Applicants should have a Ph.D. in Linguistics or a closely related field with a specialization in Psycholinguistics (expected by the start date of the appointment). Expertise in psycholinguistic research on sound structure is preferred, but the position is also open to candidates who focus on psycholinguistic research in other areas such as morphology and syntax. Expertise in an additional area such as neurolinguistics, language acquisition, or sociolinguistics is also preferred. The successful candidate should demonstrate excellence in teaching as well as a strong record of research in psycholinguistics. The teaching load is three courses in the fall and three courses in the spring, including introductory courses in linguistics and more specialized courses in Psycholinguistics at the undergraduate and graduate levels.

In a continuing effort to enrich the academic environment and provide equal educational and employment opportunities, KU actively encourages applications from members of underrepresented groups in higher education. The successful candidate must be eligible to work in the U.S. by the time of appointment.

The University of Kansas is located in the beautiful, historic, and culturally vibrant city of Lawrence, a thriving community 40 minutes from the Kansas City metropolitan area and 30 minutes from the state capital, Topeka. Lawrence, a progressive college town of 95,000, boasts a lively downtown with many music venues, award-winning restaurants, and a nationally celebrated independent bookstore among its many independently owned small businesses. The College of Liberal Arts and Sciences is the largest school within the campus and plays a central role within the University. Founded in 1865, KU is a designated Carnegie comprehensive doctoral and research university and is one of only 34 public members of the prestigious Association of American Universities (AAU). The University enrolls more than 28,000 students and offers students and faculty opportunities to collaborate in its graduate and professional programs, which include education, public health, medicine, law, and a number of allied social science and humanities disciplines.

Job Duties:

Teaching/Advising: (60%): Advise and mentor graduate students in the Linguistics Department and serve on undergraduate and graduate committees, as appropriate. Teach three courses in the fall and three courses in the spring at the undergraduate and graduate levels, including introductory courses in linguistics, undergraduate and graduate courses in psycholinguistics, and advanced seminars or other courses in research areas appropriate to the candidate's qualifications. Teaching duties include developing syllabi, preparing and teaching lectures, creating, administering, and grading homework assignments and exams, holding regular office hours, and supervising Graduate Teaching Assistants when appropriate.

Research: (20%): Establish and maintain an active and productive program of research within area of specialization.

Service: (20%): Visiting faculty members are expected to participate in departmental events and actively contribute to the workings of the University community. They are expected to perform service to the Department, College, University, and the profession at large.

Required Qualifications:

- Ph.D. in Linguistics or closely related field (expected by the start date of the appointment), with a specialization in Psycholinguistics.
- Potential for high quality teaching and a commitment to teaching excellence at the undergraduate and graduate levels.
- A strong record of research in psycholinguistics.

Additional Candidate Instructions

For a complete announcement and application instructions, go to <http://employment.ku.edu/academic/21653BR>. A complete application will include the following documents with your on-line application profile:

1. letter of application outlining interest in and qualifications for the position
2. curriculum vitae
3. teaching statement
4. evidence of teaching effectiveness such as student teaching evaluations if available
5. research statement
6. representative research publications
7. contact information for three references

In addition to the materials above, learning about each applicant's contribution and engagement in areas of diversity is an important part of KU's mission. As a result, applicants will be presented the following question at the time of application. The response must be within 4,000 characters or less.

- Describe your experiences working with people from diverse backgrounds, and explain how those experiences reflect your commitments to diversity, equity, and inclusion.

Initial review of applications will begin April 25, 2022 and will continue until a pool of applicants has been accepted. Salary is commensurate with experience. If you have questions about the position, please contact Professor Annie Tremblay, Department of Linguistics, atrembla@ku.edu.

The University of Kansas prohibits discrimination on the basis of race, color, ethnicity, religion, sex, national origin, age, ancestry, disability status as a veteran, sexual orientation, marital status, parental status, gender identity, gender expression, and genetic information in the university's programs and activities. Retaliation is also prohibited by university policy. The following persons have been designated to handle inquiries regarding the nondiscrimination policies and are the Title IX coordinators for their respective campuses: Director of the Office of Civil Rights & Title IX, civilrights@ku.edu, Room 1082, Dole Human Development Center, 1000 Sunnyside Avenue, Lawrence, KS 66045, 785-864-6414, 711 TTY (for the Lawrence, Edwards, Parsons, Yoder, and Topeka campuses); Director, Equal Opportunity Office, Mail Stop 7004, 4330 Shawnee Mission Parkway, Fairway, KS 66205, 913-588-8011, 711 TTY (for the Wichita, Salina, and Kansas City, Kansas medical center campuses).



Postdoctoral and Graduate Student Positions at Georgetown University in Auditory Cognitive Neuroscience

Postdoctoral Position at Georgetown University in Auditory Cognitive Neuroscience

The Laboratory of Integrative Neuroscience and Cognition at Georgetown University, directed by Josef Rauschecker, is looking to hire a postdoctoral fellow for a period of two years or longer.

We are seeking a highly talented, innovative and enthusiastic postdoc to begin immediately or in summer 2022. This postdoctoral position will involve single- and multi-unit recordings from auditory and premotor cortex as well as the basal ganglia on an NIH-funded grant involving nonhuman primates. Strong candidates will also have skills in advanced functional brain imaging.

Postdoc Candidate Qualifications:

- PhD in Neuroscience, or another related discipline
- Interest in neural mechanisms of perception, auditory processing, development, speech and language

- Experience with neuroimaging data, basic and advanced analysis of brain activation and connectivity (fMRI) and prior experience with electrophysiology would be desirable

- Strong programming and statistical skills (Matlab or Python)

The postdoc position is open immediately until filled, with a flexible start date (June 1, if possible).

Follow the links below to learn more:

Neuroscience department: neuro.georgetown.edu

Rauschecker lab: linc.georgetown.edu

Georgetown University: www.georgetown.edu

To apply please send a cover letter, your CV, and names of 2-3 references to Josef Rauschecker (rauschej@georgetown.edu).

Graduate Student Position at Georgetown University in Auditory Cognitive Neuroscience

The Rauschecker Lab also has a position open for a Graduate Student (PhD). The student will work with the postdoc on the above project, training macaques in auditory sequence learning and will acquire advanced electrophysiological recording techniques. Post-bac experience and programming skills are highly desirable.

Other

International Symposium on Bilingualism 14 - Diversity Now -

We are currently inviting proposals for symposia

Symposia are 120-minute blocks that allow for extended, interactive discussion on a specific topic, focusing on a cluster of independent yet related papers. Each symposium consists of four slots, and should consist either of four presentations, or of three presentations and a discussion.

Proposals must include a general abstract describing the symposium as a whole (max. 1 page), as well as abstracts for all individual presentations (each no longer than 1 page, plus up to 1 extra page for figures and references). Sufficient detail should be provided to allow peer reviewers to judge the merit of the proposal. The person submitting the symposium proposal is responsible for securing the permission and co-operation of all participants before the proposal is submitted.

All proposals should be **anonymous**. Please delete from your submission any details that might identify you (including those in the metadata).

For details on formatting requirements, download the proposal template from <https://www.isb14.com/call-for-papers/call-for-symposia>.

Proposals should be uploaded to the ISB14 submission portal (<https://app.oxfordabstracts.com/stages/3999/submitter>) by 1 September 2022.



Call for Abstracts

The *Crosslinguistic Perspectives on Processing and Learning Workshop* (X-PPL) brings together the growing community of researchers working to expand the diversity of languages in the scope of experimental or corpus research on adults or language acquisition. This research is driven by the recognition that structural/typological and socio-cultural diversity represents different opportunities to see processing and

learning mechanisms at work. The bulk of processing and acquisition research represents only a small fraction of linguistic diversity, and this risks skewing both our theories and research questions.

The *Crosslinguistic Perspectives on Processing and Learning Workshop* (X-PPL) aims to fill this gap and provide a platform for cross-linguistic research on language processing and learning. X-PPL 2022 will be hosted by the Center for the Interdisciplinary Study of Language Evolution and the Department of Comparative Language Science at the University of Zurich, and will take place on September 12-13, 2022.

Keynote speakers:

- Shanley Allen (Technical University Kaiserslautern)
- Matthew Wagers (University of California, Santa Cruz)

The first day of the workshop (September 12) will be held online to allow everyone to present and participate in X-PPL irrespective of where they are located. The second day (September 13) will be held onsite in Zurich to facilitate in-person discussions and conversations. Talks will still be streamed to make it possible to watch from anywhere in the world.

We invite contributions for 20-minute talks on the interface of linguistic diversity and language processing (encompassing production and comprehension), and language learning with the goal of understanding linguistic ontogeny (first language acquisition) and phylogeny (typological diversification, structural evolution). We also invite abstracts on (a) issues that research on language processing and learning outside of the lab might encounter or (b) plans for cross-linguistic work (see below).

Specifically, we invite contributions presenting new evidence on:

- Whether and how grammars are shaped by (cognitive and neurobiological) constraints on processing and learning, and by external pressures
- Whether and how the different grammatical properties of linguistic systems shape processing and learning strategies

We welcome in particular:

- Experimental studies on under-researched languages providing implications for processing and acquisition theories
- Studies examining production, comprehension, or (L1) developmental phenomena in one or more language(s) chosen for differences in their grammatical characteristics
- Studies providing processing-based or learning-based explanations of language change and typological distributions

In addition, we understand that the COVID-19 pandemic has made and is continuing to make cross-linguistic and fieldwork-based research particularly difficult. Therefore, we also welcome abstracts which address:

- Methodological issues which may be specific to cross-linguistic processing (small to non-existent corpora resources, varying literacy levels among speakers, participants who aren't familiar with experiments/technology, etc.) and the solutions which researchers have found to address these issues
- Plans for experimental cross-linguistic work that the presenters would like to get feedback on, such as from researchers new to experimental cross-linguistic work that may particularly benefit from the expertise of the community.
- Methods for processing corpus data for psycholinguistic goals in low-resource languages

Abstracts should be submitted as PDFs to <https://easychair.org/conferences/?conf=xppl2022>, no later than May 12, 2022. Abstracts should not exceed one A4 page (one additional page for interlinear-glossed examples, references, and figures is allowed).



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