



BROWN

Department of Cognitive, Linguistic, and Psychological Science

Integrating the Study of Mind, Brain, Behavior, and Language

Brown University's Department of Cognitive, Linguistic, and Psychological Sciences (CLPS) is dedicated to the multidisciplinary study of mind, brain, behavior, and language. It offers three Ph.D. programs: in Cognitive Science, Linguistics, and Psychology. Entering students are accepted by the department and formally choose one of the three Ph.D. programs after completing the first year: Psychology, Cognitive Science, Linguistics. Accepted students receive five years of full financial support.



Application

Deadline: December 1. Electronic application portal: <https://www.applyweb.com/browng/>

Required: GRE General scores; TOEFL scores for non-native speakers of English. We do not require completion of specific coursework; rather, we accept students from a diverse range of training programs and with very different research backgrounds. For general application requirements, please see the Brown Graduate School web pages (<http://www.brown.edu/academics/gradschool/application-information>).

A critical element in judging applications is our assessment of the fit between the applicant's intellectual and research interests and those of one or more faculty members. We strongly recommend that, before applying, you carefully read the departmental website (<https://www.brown.edu/academics/cognitive-linguistic-psychological-sciences/>) and give particular attention to the research descriptions supplied by each faculty member. Many applicants have found it useful to correspond with individual faculty members before applying, but this is not required. Please note that we cannot estimate the probability of being admitted before you have applied. Our admission decisions are based on the complete application, which is considered by multiple members of the faculty.

Admission to the CLPS Ph.D. programs is highly selective. We welcome applications from students holding a BA, BS, or equivalent degree (for example international students) and are actively seeking applicants from historically underrepresented groups in graduate programs.

Faculty

Dima Amso (Cognitive neuroscience of attention and learning)

Scott AnderBois (Semantics, pragmatics, linguistic fieldwork, psycholinguistics)

James Anderson (Neural modeling of cognitive processes)

David Badre (Cognitive neuroscience of memory and executive function)

Kevin Bath (Animal behavior, translational models, affective development, behavioral genetics, stress biology)

Sheila Blumstein (Speech and lexical processing, cognitive neuroscience of language)

Rebecca Burwell (Neural bases of memory and attention)

Russell M. Church (Computational, cognitive, and neural basis of interval timing)

Uriel Cohen Priva (Psycholinguists, theoretical linguistics)

Ruth Colwill (Animal learning, behavior and cognition)

Fulvio Domini (Computational vision)

Roman Feiman (language acquisition, cognitive development, psycholinguistics)

Oriel FeldmanHall (Affective neuroscience of social and moral decision-making)

Elena Festa (Neuropsychology of perception, attention, and memory; cognitive aging; Alzheimer's disease)

Michael Frank (Computational cognitive neuroscience of learning, memory, and decision making)

William Heindel (Neuropsychology of memory and attention, Alzheimer's disease)

Pauline Jacobson (Syntax/semantics interface, formal semantics, syntactic theory)

Joachim Krueger (Social cognition, self-perception, social categorization, stereotyping)

Bertram F. Malle (Social cognition, theory of mind, explanations, moral judgment)

James Morgan (Language acquisition, infant speech perception, psycholinguistics)

Thomas Serre (Computational models of biological and machine vision)

Amitai Shenhav (Cognitive neuroscience of affect, decision-making, and cognitive control)
Andrea M. Simmons (Neural development, neural bases and computational models of flow sensing)
Steven Sloman (Causal reasoning, decision making, categorization)
David Sobel (Children's causal reasoning, theory of mind, cognitive development)
Joo-Hyun Song (Visually-guided action, decision making, visual attention)

Kathryn Spoehr (Human problem solving and reasoning, computer-based learning)
William H. Warren (Perception and action, visual control of locomotion, spatial navigation)
Takeo Watanabe (Vision, motion perception, attention, perceptual learning)
Leslie Welch (Visual perception, motion perception, perceptual learning)
Jack C. Wright (Personality, individual differences, developmental psychopathology)

Facilities

CLPS is housed in a newly renovated 36,000 square foot building with state-of-the art laboratories, classrooms, and meeting spaces. Research facilities include:

- ▣ Virtual Environment Navigation Lab (VENLab), one of the world's largest ambulatory virtual reality facilities
- ▣ Large suite of individual testing rooms for computer-presented experiments
- ▣ Wide-area motion capture system for full-body kinematics
- ▣ High-performance 200-node computing cluster
- ▣ 64-channel Event Related Potential (ERP) system
- ▣ Research-dedicated 3.0T MRI system
- ▣ Brain stimulation facility (TMSm, tDCS/tACS)
- ▣ Near Infrared Spectroscopy
- ▣ Multiple laboratories for animal behavior research (e.g., rats, zebra fish, canines)
- ▣ High-resolution eye trackers and mobile eye tracker
- ▣ Multiple laboratories for behavioral research with children and adults; individually, in dyads or in groups; with digital audio-video recording, processing, and production.



Research Areas

Behavioral neuroscience/Comparative. Neural bases and computational models of: interval timing, auditory perception, flow sensing, memory, and higher cognitive functions; neuro-development, plasticity, and regeneration; canid communication and social cognition. *Faculty:* Bath, Burwell, Church, Colwill, Simmons.

Cognitive neuroscience. The neural basis of cognitive functions such as attention, perception, learning, memory, executive control, decision making, language. *Faculty:* Amso, Anderson, Badre, Bath, Blumstein, Burwell, Festa, Heindel, FeldmanHall, Frank, Shenhav, Watanabe.

Development. In human and animal models, visual attention, learning and memory, causal reasoning, pretend play, language, perception. *Faculty:* Amso, Bath, Feiman, Morgan, Sobel, Simmons.

Higher-level cognition. Human memory, learning, and cognitive control; inductive inference, causal reasoning, and decision-making; moral reasoning, social cognition and theory of mind and their development. *Faculty:* Anderson, Badre, Feiman, Frank, Heindel, Krueger, Malle, Shenhav, Sloman, Sobel, Spoehr, Wright.

Neural/computational models of cognition and language. Neural and computational models of processes such as motor control, vision, categorization, learning, reasoning, and language. *Faculty:* Anderson, Blumstein, Frank, Morgan, Serre, Sloman.

Perception and action. Computational, psychophysical and ecological approaches to the study of perceiving shape and motion,

recognizing objects and scenes, processing auditory events, attention, perceptual learning, and controlling action. *Faculty:* Amso, Domini, Serre, Song, Simmons, Warren, Watanabe, Welch.

Phonetics and phonology. Acoustic properties of phonetic categories of speech; physiological basis of articulation and perception; phonetic and phonological theories, phonetic/phonological interface. *Faculty:* Blumstein, Cohen Priva, Morgan.

Psycholinguistics and language processing. The experimental study of language acquisition and language use across linguistic domains and the relationship between experimental and theoretical approaches to language. *Faculty:* AnderBois, Blumstein, Cohen Priva, Feiman.

Semantics and syntax. Formal semantics, the syntax-semantics interface, lexical semantics, the interaction of information structure, discourse, and pragmatics with semantics and syntax, categorical grammar and related theories of syntax. *Faculty:* AnderBois, Feiman, Jacobson.

Social psychology. Social cognition, social cognitive neuroscience, theory of mind, moral judgment, perception of personality, person-situation interactions, self-image, social projection, intergroup perception, strategic behavior. *Faculty:* FeldmanHall, Krueger, Malle, Wright.



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<https://www.brown.edu/academics/cognitive-linguistic-psychological-sciences/>

