



Ph.D. in

Brain & Cognitive Sciences

Areas of Research Focus

- Cognitive Neuroscience
- Computation, Cognition & the Brain
- Language Processing & Acquisition
- Learning, Development & Neural Plasticity
- Perception and Action

Program

Our program trains outstanding young scientists in the interdisciplinary field of brain and cognitive sciences. Faculty and graduate students in our department study how we see and hear, move, learn and remember, reason, produce and understand spoken and signed languages, and how these remarkable capabilities depend upon the workings of the brain. We also study how these capabilities develop during infancy and childhood, and how the brain matures and becomes organized to perform complex behavior. Our graduate training program provides early involvement in research and a strong mentoring environment, enabling our students to build highly successful research careers of their own.

Financial Support

All students admitted to the program are offered graduate fellowships that provide a competitive 12-month stipend and cover the costs of tuition and other fees.

The closing date for applications for admission is January 1.

Contact

Dept. of Brain & Cognitive Sciences
University of Rochester
358 Meliora Hall
Rochester, New York 14627-0268
(585) 275-1844

Primary Faculty

Richard N. Aslin

Perceptual language development, vision, speech recognition

Daphne Bavelier

Brain plasticity, visual cognition, perceptual learning, deafness

Jessica Cantlon

Developmental cognitive neuroscience, concepts of number

Greg DeAngelis

Neurophysiology of 3D vision, neural basis of multi-sensory integration, neural coding

T. Florian Jaeger

Language production & comprehension, optimal processing, language fieldwork

Robert A. Jacobs

Perceptual & cognitive learning, visual perception, computational modeling

David C. Knill

Visual perception, visuo-motor control, psychophysics, computational vision

Elissa L. Newport

Language acquisition, mechanisms of learning & development

Ernest J. Nordeen

Modulation of neural plasticity & learning

Kathy W. Nordeen

Neural plasticity, learning, memory

Raphael Pinaud

Audition, vision, neural plasticity, sensory learning

Alexandre Pouget

Theories of coding, representation & computation in the brain

Ted Supalla

Sign language structure & evolution, psycholinguistics

Duje Tadin

Visual perception & attention, perceptual learning, perceptual awareness

Michael K. Tanenhaus

Psycholinguistics, language & reading comprehension

Michael Weliky

Visual cortical development, function & plasticity

David R. Williams

Limits of human vision, options & structure of the eye, spatial & color vision

Associated Programs

Optics • Linguistics • Music Theory • Neuroscience
Computer Science • Biomedical Engineering