Core faculty

Colin Allen  History and Philosophy of Science
Sasha Barab  Learning Sciences, Education
Randall Beer  Computer Science
John Beggs  Physics
Bennett Bertenthal  Psychological and Brain Sciences
Geoffrey Bingham  Psychological and Brain Sciences
Katy Bomer  Library and Information Science
Joshua Brown  Psychological and Brain Sciences
Katy Bomer  Psychological and Brain Sciences
Jerome Buschman  Psychological and Brain Sciences
Thomas Busey  Psychological and Brain Sciences
Rowan Catty  Speech and Hearing Sciences
Phil Connell  Optometry
Donald Cunningham  Education
Kenneth de Jong  Linguistics
Daniel Dinnin  Linguistics
Thomas Duffy  Learning Sciences, Education
Michael Dunn  Informatics
William Estes  Psychological and Brain Sciences
Julie Fox  Telecommunications
Steven Franks  Linguistics
Michael Gasser  Computer Science
Lisa Gershoff-Stowe  Speech and Hearing Sciences
Judith Geruit  Speech and Hearing Sciences
Jason Gold  Psychological and Brain Sciences
Robert Goldstone  Psychological and Brain Sciences
Melissa Gresalaffi  Learning Sciences, Education
Amit Hagar  History and Philosophy of Science
Andrew Hanson  Computer Science
Douglas Hofstadter  Computer Science
Thomas James  Psychological and Brain Sciences
Michael Jones  Psychological and Brain Sciences
Ellen Kettersson  Biology
Diwakar Kewley-Port  Speech and Hearing Sciences
John Kuscheke  Psychological and Brain Sciences
Sandra Kuebler  Linguistics
Annie Lang  Telecommunications
David Leake  Computer Science
Richard Lesh  Learning Sciences, Education
Jonathan Mills  Computer Science

Core faculty continued

Lawrence Moss  Mathematics
Javed Mostafa  Library and Information Science
Sharlene Newman  Psychological and Brain Sciences
Robert Nosofsky  Psychological and Brain Sciences
Timothy O’Connor  Philosophy
John Paulino  Library and Information Science
Luis Perea  Psychological and Brain Sciences
David Placido  Psychological and Brain Sciences
Jonathan Plucker  Psychological and Brain Sciences
Nicholas Port  Optometry
Robert Port  Linguistics
Robert Poter  Telecommunications
Luis Rocha  Informatics
Yvonne Rogers  Library and Information Science
Kathy Schick  Anthropology
Steven J Sherman  Psychological and Brain Sciences
Richard Shiffrin  Psychological and Brain Sciences
Martin Siegel  Informatics
Elliot Smith  Psychological and Brain Sciences
Linda Smith  Psychological and Brain Sciences
Olaf Sporns  Psychological and Brain Sciences
Erik Stotlman  Psychological and Brain Sciences
Julie Stout  Psychological and Brain Sciences
William Timbertake  Informatics
Peter Todd  Anthropology
Nicholas Toth  Psychological and Brain Sciences
James Townsend  Informatics
Michael Troset  Psychological and Brain Sciences
Stanley Wasserman  Statistics and Sociology
Jonathan Weinberg  Psychology
Larry Yager  Informatics
Chen Yu  Psychological and Brain Sciences

Indiana University Cognitive Science Program
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Cognitive Science at Indiana University Bloomington is an interdisciplinary program dedicated to understanding the nature of minds and other intelligent systems.

Our curriculum fosters skills in computation, neuroscience, research design, philosophical analysis, and statistics while delving into core topics in artificial intelligence, cognitive architecture, communication, consciousness, creativity, culture, expertise, information theory, language, learning, memory, perception, philosophy of mind, reasoning, representation, and social cognition.
Undergraduate Program:
We offer stand-alone B.A. and B.S. degrees in Cognitive Science, as well as double degrees and minors. We offer positions for one-year visiting undergraduate students interested in pursuing cognitive science. We also offer summer research fellowships, and year-round research and laboratory opportunities.

Graduate Program: Our program has over 90 graduate students pursuing either stand-alone or joint Ph.D. degrees, or Ph.D. minors. Fellowships are available to both entering and continuing students. Applications are available from www.cogs.indiana.edu/academic/admissions.html

Facilities: Indiana University has many research resources available to the local cognitive science community. These include: a 3-Tesla fMRI neuro-imaging center, a state-of-the-art robotics laboratory, immersive virtual reality and visualization laboratories, advanced computer laboratories for studying large-scale social interaction, and a world-class supercomputer.

Faculty: Our internationally renowned faculty includes 71 core and 75 affiliated members, from 8 departments in the College of Arts and Sciences, and the Schools of Informatics, Library and Information Science, Business, Music, Optometry, and Education. We believe that large-scale applications of cognitive science to educational reform, automatic object recognition, user interface design, the treatment of neurologically impaired patients, machine translation, computerized speech production and recognition, real-world robotics, and information storage, search, and retrieval will depend on cross-fertilization, communication and collaboration among the fields that comprise cognitive science.

For more information, visit http://www.cogs.indiana.edu or contact cogsci@indiana.edu

Fields
Anthropology  Mathematics
Biology  Neuroscience
Computer science  Philosophy
Communications  Political science
Education  Psychology
Information science  Speech & hearing
Linguistics

Tools and Methods
Computer simulation  Neural networks
Cross-cultural analysis  Neuro-imaging
Evolutionary computation  Psychophysiology
Behavioral experiments  Robotics
Logic  Statistics and data mining
Mathematical models  Symbolic artificial intelligence

Specialties
Agent-environment interaction  Embodied cognition
Analogy  Evolution and adaptation
Animal behavior  Judgment, reasoning, and decision making
Artificial life  Learning science
Concepts and categorization  Machine learning
Cognitive development  Mathematical and computational models of thought
Cognitive neuroscience  Robotics
Complex systems  Social networks
Language computation  Vision science
Dynamical systems

Cover: Slice of human cortex mounted on a 60-channel electrode array, courtesy of Jon Hobbs and John Beggs; structural brain image from the new Siemens 3 Tesla MRI, courtesy of the IU Imaging Research Facility.

Above, left to right: ROBONOA-1, manufactured by Hitec Robotics and used in Prof. Randall Beer’s course on embodied cognition; eye tracking and position sensing equipment used in a multisensory experiment, courtesy of Chen Yu; the Siemens 3 Tesla MRI.