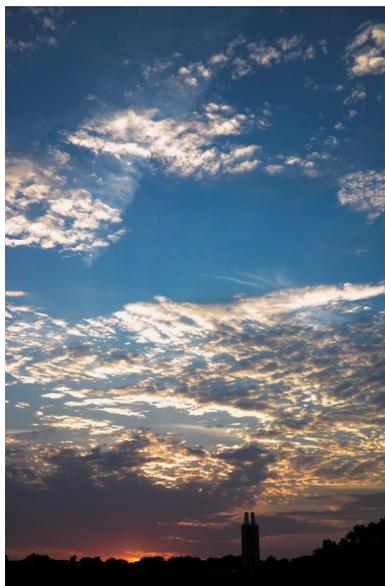


Brain, Behavior, and Quantitative Science Graduate Program

A new interdisciplinary graduate program in KU's Department of Psychology



Mission Statement

Faculty and students in the Brain, Behavior, and Quantitative Science program seek a better understanding of human behavior through interdisciplinary approaches and translate that basic understanding to improve the development and well-being of individuals in society. We work toward this goal by developing better models of behavior, cognition, and brain function through translational research and the creation of new computational and statistical tools that allow us to extract meaningful and useful conclusion from complex data.

Curriculum

The program provides instruction and research training for students pursuing careers in the academic, public, and private sectors that draw on the research and scholarly interests of the group. A key aspect of the program is that each student's training plan is individually tailored and fit to each student's personal goals. In general, though, a strong emphasis is placed on students developing a fundamental understanding of psychological theory, acquiring advanced statistical and computational skills and expertise, and learning how to apply this science to improve the development and/or well-being of individuals in society. Toward this end, the program requires both coursework and constant involvement in the research endeavor, whether in the laboratory or in the field, and (where appropriate) active engagement in opportunities to translate basic science into practice or application.

Affiliated Research Centers

- Center for Research Methods and Data Analysis
- Center for Teaching Excellence
- Cofrin Logan Center for Addiction Research and Treatment
- Kansas Intellectual and Developmental Disorders Research Center

Program Research Interests

- Behavioral economics
- Cognitive neuroscience
- Cognitive science
- Developmental science
- Learning
- Quantitative and computational methods

For more information, please contact:

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Brain, Behavior, and Quantitative Science Graduate Faculty

Our distinguished and award-winning faculty boast notable research publications and a diverse range of research interests.

Core Faculty



Holger Brandt
(Ph.D., Goethe University-Frankfurt, 2013).

Research Interests:

Nonlinear latent variable models, Bayesian shrinkage methods, and modeling of dynamic processes.



John Colombo
(Ph.D., Buffalo, 1981).

Research Interests:

Developmental cognitive neuroscience of attention and learning, typical and atypical development of cognitive and intellectual function. Effects on early nutrition on cognitive development.



Andrea Follmer Greenhoot (Ph.D., North Carolina, 1997).

Research Interests:

Cognitive development and learning. How children and adults come to remember both good and bad experiences in their lives; How to help students achieve a high level of success in learning in higher education.



Tim Pleskac (Ph.D. University of Maryland-College Park, 2004).

Research Interests:

Computational models of judgment and decision making, with a specific focus on using the models to identify and treat problematic decision making.



Mike Vitevitch (Ph.D., SUNY-Buffalo, 1997).

Research Interests:

Perception and production of spoken language; auditory illusions; Network Science.



Richard Yi (Ph.D., Stony Brook University, 2002).

Research Interests:

Decision making associated with addiction and other health-compromising behaviors, behavioral economics.

Affiliated Faculty



Jenna Cambria (Ph.D., University of Maryland, 2014).

Research Interests:

Students' motivation; achievement and choices, especially gender differences in STEM career aspirations.

Our Department

The Brain, Behavior, and Quantitative Science Graduate Program is part of the Department of Psychology, which is made up of 19 full-time faculty, 11 teaching professors and lecturers, nearly 70 graduate students, and over 1200 undergraduate majors. The Department—which makes its home on top of the hill in Fraser Hall overlooking the rest of the campus and the city of Lawrence—has had a long and successful history with many psychologists contributing to its success since its beginnings in 1930. Besides the interests of the Program's faculty, the faculty of the Department also have expertise in Social and Clinical Psychology. Finally, the Department has strong connections to other parts of KU including the Departments of Applied Behavioral Science, Communications, Linguistics, and Speech-Language-Hearing, as well as the Schools of Business, Education, Engineering and Music.

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For more information, please contact:

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