NEUROSCIENCES AND COGNITIVE SCIENCE (NACS)
Graduate Degree Program
College: Behavioral and Social Sciences

Abstract
The NACS program offers a wide range of research and training opportunities for students who are interested in pursuing doctoral-level research in a variety of areas within neuroscience and cognitive science. Faculty research interests center around seven main areas: Cellular & Molecular, Sensory & Motor Systems, Computational Modeling & Theory, Language & Speech, Cognition & Emotion, Development & Aging, and Disorders & Treatment. Research approaches include both the theoretical and experimental, with several laboratories doing both. Research and training activities of NACS take place within the laboratories of faculty in 23 participating departments and units: Aerospace Engineering, Animal and Avian Sciences, Behavioral and Community Health, Bioengineering, Biology, Computer Science, Electrical and Computer Engineering, English, Entomology, Epidemiology & Biostatistics, Hearing and Speech Sciences, Human Development, Kinesiology, Linguistics, Nutrition and Food Science, Philosophy, Psychology, and Teaching and Learning, Policy and Leadership, as well as the Center for Advanced Study of Language, the Institute for Advanced Computer Studies, the Institute for Systems Research, the Maryland Neuroimaging Center, and the Second Language Acquisition program. The NACS program requires the completion of two required core courses and three out of five core courses, including introduction to neurosciences, cognitive neuroscience, computational neuroscience, cellular and molecular neuroscience, and cognitive science. The goal of the Program is to bring together the diverse perspectives and strengths of all the included disciplines in order to understand the working of the nervous system, the mind, and behavior. For more information, please visit our website: http://www.nacs.umd.edu.

Financial Assistance
Fellowships are available on a competitive basis to both entering and continuing students, while qualified students may also receive teaching assistantships. In addition, some faculty have research assistantships for their students.

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Courses:
NACS

Keywords: Interdisciplinary program combining Neuroscience, Cognitive Science, Computational Science and other disciplines related to studies of brain function.

Admissions
General Requirements
• Statement of Purpose: The statement of purpose and three letters of recommendation will be required to be uploaded in the Supplementary Application (Acceptd), not the Graduate School’s application.
• Transcript(s)
• TOEFL/IELTS/PTE (international graduate students (https://gradschool.umd.edu/admissions/english-language-proficiency-requirements))

Program-Specific Requirements
• Letters of Recommendation (3)
• Graduate Record Examination (GRE)
• CV/Resume

For more admissions information or to apply to the program, please visit our Graduate School website: www.gradschool.umd.edu/admissions

Application Deadlines
Type of Applicant	Fall Deadline
Domestic Applicants
US Citizens and Permanent Residents
1 Nov
International Applicants
F (student) or J (exchange visitor) visas; A,E,G,HJ and L visas and immigrants
1 Nov
Other Deadlines: Please visit the program website at http://www.nacs.umd.edu

Requirements


Facilities and Special Resources

The Program, by virtue of its breadth, has access to the facilities of all the departments, institutes, and centers of its faculty members. These include the Institute for Systems Research, the Institute for Advanced Computer Studies, the Center for Advanced Study of Language, the Maryland Neuroimaging Center, and the various well-equipped research laboratories and department facilities of the faculty. Animal facilities are available where necessary. NACS has developed close collaborations with the National Institutes of Health (NIH), Children's National Medical Center (CNMC), and Walter Reed National Military Medical Center (WRNMMC). NACS students can conduct research in laboratories with NACS adjunct faculty at these institutions. Thus, these relationships extend research and training opportunities for students while they get their degrees from the NACS program.

Faculty

<table>
<thead>
<tr>
<th>Last Name</th>
<th>First/Middle Name</th>
<th>Graduate Faculty Status</th>
<th>Academic Credentials</th>
<th>Positions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abshire</td>
<td>Pamela</td>
<td>Full Member</td>
<td>B.S., California Institute of Technology, 1992; M.S., The Johns Hopkins University, 1997; Ph.D., The Johns Hopkins University, 2001.</td>
<td>Associate Professor, Electrical and Computer Engineering Associate Professor, Neurosciences and Cognitive Science Associate Professor, Systems Engineering Professor, Neurosciences and Cognitive Science Associate Professor, Computer Science Affiliate Professor, Electrical and Computer Engineering</td>
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<tr>
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<td>John</td>
<td>Full Member</td>
<td>B.S., University of Athens, Greece, 1981; M.S., University of Rochester, 1984; Ph.D., 1987.</td>
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<td>Anderson</td>
<td>Samira</td>
<td>Full Member</td>
<td>B.A., Indiana University, 1979; M.A., Indiana University, 1981; Au.D., University of Florida, 2000; Ph.D., Northwestern University, 2012.</td>
<td>Assistant Professor, Hearing and Speech Sciences Assistant Professor, Neurosciences and Cognitive Science Assistant Professor, Clinical Audiology</td>
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<td>Aranda-Espinoza</td>
<td>Jose Helim</td>
<td>Full Member</td>
<td>B.S., University of Zacatecas, Mexico 1990; M.S., University of San Luis Potosi, Mexico 1993; Ph.D., University of San Luis Potosi, Mexico 1998.</td>
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<tr>
<td>Ball</td>
<td>Gregory</td>
<td>Full Member</td>
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</tbody>
</table>
Beier Jonathan Full Member B.S., Stanford University, 2001; Ph.D., Harvard University, 2008. Assistant Professor, Neurosciences and Cognitive Science Assistant Professor, Psychology

Bernat Edward Full Member B.A., University of Arizona, 1989; M.A., University of Michigan, 1993; Ph.D., University of Michigan, 1997. Assistant Professor, Neurosciences and Cognitive Science Assistant Professor, Psychology Carleton Karen Full Member B.S., Yale University, 1980; Ph.D., University of Colorado, 1987

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Professor, Psychology
Affiliate Professor, Biological Sciences
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<tr>
<td>Fisher</td>
<td>Heidi</td>
<td>Assistant Professor, Neurosciences and Cognitive Science</td>
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<td>Assistant Professor, Neurosciences and Cognitive Science</td>
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<td>Fox</td>
<td>Nathan A.</td>
<td>Distinguished University Professor, Human Development Professor</td>
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<td>Neurosciences and Cognitive Science Affiliate Professor, Jewish Studies</td>
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<td>Gaudry</td>
<td>Quentin</td>
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<td>Assistant Professor, Psychology and Behavioral Neuroscience, Ohio State University</td>
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<table>
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<tr>
<th>Name</th>
<th>Degree</th>
<th>Institution</th>
<th>Position</th>
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<tbody>
<tr>
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<td>Thomas S</td>
<td>Full Member</td>
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<td>Yager</td>
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<td>Professor, Neurosciences and Cognitive Science</td>
</tr>
<tr>
<td>Yeni-Komshian</td>
<td>Grace H.</td>
<td>Full Member</td>
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