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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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.

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)

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
<table>
<thead>
<tr>
<th>Type of Applicant</th>
<th>Fall Deadline</th>
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<tr>
<td>Domestic Applicants: US Citizens and Permanent Residents</td>
<td>1 Nov</td>
</tr>
<tr>
<td>International Applicants: F (student) or J (exchange visitor) visas, A,E,G,H,I and L visas and immigrants</td>
<td>1 Nov</td>
</tr>
</tbody>
</table>

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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>Professor, Electrical and Computer Engineering Associate Professor, Neurosciences and Cognitive Science Associate Professor, Systems Engineering Professor, Neurosciences and Cognitive Science Professor, Computer Science Affiliate Professor, Electrical and Computer Engineering</td>
</tr>
<tr>
<td>Aloimonos</td>
<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>
<td>Babadi Behtash Full Member B.S., Sharif University of Technology, 2006; Ph.D., Harvard University, 2011</td>
</tr>
<tr>
<td>Ball</td>
<td>Gregory</td>
<td>Full Member</td>
<td>B.A., Columbia University; Ph.D., Rutgers University</td>
<td></td>
</tr>
<tr>
<td>Beier</td>
<td>Jonathan</td>
<td>Full Member</td>
<td>B.S., Stanford University, 2001; Ph.D., Harvard University, 2008.</td>
<td>Assistant Professor, Electrical and Computer Engineering Assistant Professor, Neurosciences and Cognitive Science Professor, Psychology</td>
</tr>
<tr>
<td>Anderson</td>
<td>Samira</td>
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<td>B.A., Indiana University, 1979; M.A., Indiana University, 1981; Au.D., University of Florida, 2000; Ph.D., Northwestern University, 2012.</td>
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<tr>
<td>Araneda</td>
<td>Ricardo</td>
<td>Full Member</td>
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<td>Associate Professor, Biological Sciences Assistant Professor, Neurosciences and Cognitive Science</td>
</tr>
<tr>
<td>Babadi</td>
<td>Behtash</td>
<td>Full Member</td>
<td>B.S., Sharif University of Technology, 2006; Ph.D., Harvard University, 2011</td>
<td>Assistant Professor, Electrical and Computer Engineering Assistant Professor, Neurosciences and Cognitive Science</td>
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<tr>
<td>Beier</td>
<td>Jonathan</td>
<td>Full Member</td>
<td>B.S., Stanford University, 2001; Ph.D., Harvard University, 2008.</td>
<td>Assistant Professor, Electrical and Computer Engineering Assistant Professor, Neurosciences and Cognitive Science Assistant Professor, Psychology</td>
</tr>
<tr>
<td>Name</td>
<td>Full Member</td>
<td>B.A., M.A., Ph.D., Expertise</td>
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<tr>
<td>Bernat</td>
<td>Edward</td>
<td>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</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bolger</td>
<td>Donald J.</td>
<td>University of Massachusetts, 1998; M.S., University of Pittsburgh, 2002; Ph.D., 2006; Associate Professor, Human Development, Assistant Professor, Neurosciences and Cognitive Science, Professor, Psychology</td>
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<td></td>
</tr>
<tr>
<td>Brauth</td>
<td>Steven E.</td>
<td>Rensselaer Polytechnic Institute, 1967; Ph.D., New York University, 1973; Professor, Neurosciences and Cognitive Science, Professor, Psychology</td>
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<tr>
<td>Butler</td>
<td>Lucas</td>
<td>A.B., Harvard University, 2005; M.A., Stanford University, 2009; Ph.D., Stanford University, 2012; Assistant Professor, Human Development, Assistant Professor, Neurosciences and Cognitive Science, Professor</td>
<td></td>
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<tr>
<td>Butts</td>
<td>Daniel</td>
<td>Oberlin College, 1994; Ph.D., University of California Berkeley, 2000; Professor, Biophysics Associate Professor, Applied Mathematics &amp; Statistics, and Scientific Computation Associate Professor, Neurosciences and Cognitive Science, Associate Professor, Biological Sciences</td>
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</tr>
<tr>
<td>Carleton</td>
<td>Karen</td>
<td>B.S., Yale University, 1980; Ph.D., University of Colorado, 1987; Professor, Neurosciences and Cognitive Science, Professor, Biological Sciences</td>
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</tr>
<tr>
<td>Carr</td>
<td>Catherine E.</td>
<td>B.Sc, University of Capetown, 1976; M.A., State University of New York-Buffalo, 1977; Ph.D., University of California-San Diego, 1984; Professor, Neurosciences and Cognitive Science, Professor, Biological Sciences</td>
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<tr>
<td>Carruthers</td>
<td>Peter</td>
<td>B.A., University of Leeds, 1975; M.Phil., University of Leeds, 1977; D.Phil., University of Oxford, 1979; Professor, Neurosciences and Cognitive Science, Professor, Philosophy, Affiliate Professor, Second Language Acquisition</td>
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<tr>
<td>Cassidy</td>
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</tr>
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<td></td>
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</tbody>
</table>
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<table>
<thead>
<tr>
<th>Name</th>
<th>Last Name</th>
<th>Title</th>
<th>Degree(s)</th>
<th>Affiliations</th>
</tr>
</thead>
<tbody>
<tr>
<td>MacSwan</td>
<td>Jeff</td>
<td>Full Member</td>
<td>B.A., California State University, 1985; M.A., California State University, 1987; Ph.D., University of California-Los Angeles, 1997</td>
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<td>Miller</td>
<td>Ross H.</td>
<td>Full Member</td>
<td>B.S., Iowa State University, 2003; M.S., Iowa State University, 2005; M.S., Iowa State University, 2006; Ph.D., University of Massachusetts Amherst, 2010</td>
<td>Assistant Professor, Kinesiology, Professor, Neurosciences and Cognitive Science, Assistant Professor, Science, Assistant Professor, Physical Activity</td>
</tr>
<tr>
<td>Newcomb</td>
<td>Robert W.</td>
<td>Full Member</td>
<td>B.S., Purdue University, 1955; M.S., Stanford University, 1957; Ph.D., University of California-Berkeley, 1960</td>
<td>Professor, Electrical and Computer Engineering, Professor, Applied Mathematics &amp; Statistics, and Scientific Computation Professor, Neurosciences and Cognitive Science</td>
</tr>
<tr>
<td>Paley</td>
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<td>Full Member</td>
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<td>Novick</td>
<td>Jared</td>
<td>Full Member</td>
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<tr>
<td>Newman</td>
<td>Rochelle</td>
<td>Full Member</td>
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<td>Chair, Hearing and Speech Sciences, Professor, Speech, Language Pathology Associate Professor, Neurosciences and Cognitive Science, Affiliate Associate Professor, Second Language Acquisition</td>
</tr>
<tr>
<td>Paley</td>
<td>Derek</td>
<td>Full Member</td>
<td>B.S., Yale University, 1997; Ph.D., Princeton University, 2007</td>
<td>Associate Professor, Neurosciences and Cognitive Science</td>
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</tbody>
</table>
Payne Richard Full Member B.A., University of Cambridge, 1977; Ph.D., Australian National University-Canberra, 1982. Professor, Neurosciences and Cognitive Science

Polinsky Maria Full Member Professor, Neurosciences and Cognitive Science

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Quinlan Elizabeth Full Member Ph.D., University of Illinois at Chicago, 1993. Professor, Neurosciences and Cognitive Science

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Reggia James A. Full Member B.S., University of Maryland-College Park, 1971; M.D., University of Maryland at Baltimore, 1975; Ph.D., University of Maryland-College Park, 1981. Professor, Applied Mathematics & Statistics Professor, Computational Linguistics Professor, Neurosciences and Cognitive Science
<table>
<thead>
<tr>
<th>Name</th>
<th>Academic and Professional Information</th>
</tr>
</thead>
</table>
| Resnik Philip S. | Full Member  
Professor, Linguistics  
Professor, Neurosciences and Cognitive Science  
Affiliate Professor, Computer Science  
Professor, Neurosciences and Cognitive Science  
Professor, Philosophy |
| Rey Georges | Full Member  
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| Riggins Tracy | Full Member  
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Assistant Professor, Psychology |
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Associate Professor, Neurosciences and Cognitive Science |
| Rubin Kenneth H. | Full Member  
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Professor, Neurosciences and Cognitive Science |
| Shackman Alexander | Full Member  
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Professor, Professor, Neurosciences and Cognitive Science  
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Associate Professor, Professor, Neurosciences and Cognitive Science |
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| Simon Jonathan | Full Member  
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Professor, Professor, Neurosciences and Cognitive Science  
Professor, Biological Sciences |
| Name            | First Name | Title | Membership Year | University, 2000. | Full Member | University, 1986; M.S., Nanjing Agricultural University, 1984; M.S., Nanjing Agricultural University, 1988; Ph.D., Shanghai Institute of Entomology, Chinese Academy of Sciences, 1998. | Associate Professor, Linguistics | Professor, Neurosciences and Cognitive Science |
|-----------------|------------|-------|-----------------|-------------------|-------------|----------------------------------------------------------------------------------|-------------------------------------------------|
| Smith           | Carson J.  | Full Member | B.S., Arizona State University, 1993; Ph.D., University of Georgia, 2000 | Assistant Professor, Psychology | Associate Professor, Neurosciences and Cognitive Science | Associate Professor, Psychology | Professor, Neurosciences and Cognitive Science |
| Solway          | Alec       | Full Member | B.S., Computer Science, 2007; M.S. Eng., University of Pennsylvania, 2009; Ph.D., Princeton University, 2014 | Assistant Professor, Neurosciences and Cognitive Science | Wang Jian Full Member | B.S., Nanjing Agricultural University, 1984; M.S., Nanjing Agricultural University, 1988; Ph.D., Shanghai Institute of Entomology, Chinese Academy of Sciences, 1998. | Professor, Neurosciences and Cognitive Science |
| Speer           | Colenso M. | Full Member | B.S., Arizona State University, 2004; Ph.D., University of California-Davis, 2010 | Assistant Professor, Neurosciences and Cognitive Science | Yager David D. Full Member | B.A., Wesleyan University, 1972; Ph.D., Cornell University, 1989. | Associate Professor, Psychology |
| Stricklin       | William R. | Full Member | B.S., University of Tennessee-Knoxville, 1968; M.S., 1972; Ph.D., Pennsylvania State University-Pennsylvania State University, 1969 | Assistant Professor, Animal Sciences | Associate Professor, Psychology | Associate Professor, Psychology | Professor, Neurosciences and Cognitive Science |
| Taneyhill       | Lisa       | Full Member | B.A., Western Maryland College McDaniel College 1995; M.S., Princeton University, 1997; Ph.D., Princeton University, 2000 | Associate Professor, Animal Sciences | Yager David D. Full Member | B.A., Wesleyan University, 1972; Ph.D., Cornell University, 1989. | Associate Professor, Psychology |