

## Dr. Jens Herberholz

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Department of Psychology • Neuroscience and Cognitive Science Program

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### **Education**

1999	Dr. rer. nat. (PhD, Natural Sciences)	Technical University Munich, Germany
1995	Diplom (M.Sc., Zoology)	Albert-Ludwigs-University Freiburg, Germany
1992	Vordiplom (B.Sc., Biology)	Albert-Ludwigs-University Freiburg, Germany

### **Academic Positions**

7/2013 - present	<u>Director</u> , Neuroscience and Cognitive Science Program (NACS), University of Maryland, College Park, USA
1/2012 - 7/2012	<u>Visiting Professor</u> (sabbatical), Department of Zoology, Technical University Munich, Germany
8/2011 - present	<u>Associate Professor</u> (tenured), Department of Psychology, University of Maryland, College Park, USA
8/2005 - 8/2011	<u>Assistant Professor</u> , Department of Psychology, University of Maryland, College Park, USA
1/2002 - 7/2005	<u>Research Scientist</u> , Department of Biology, Georgia State University, Atlanta, USA
8/1999 - 12/2001	<u>Postdoctoral Research Associate</u> , Department of Biology, Georgia State University, Atlanta, USA

### **Affiliations & Memberships**

2009 - present	Affiliate Faculty Member, Department of Biology, University of Maryland, College Park
2009 - 2013	Affiliate Faculty Member, Center for Comparative and Evolutionary Biology of Hearing, University of Maryland, College Park
2005 - present	Affiliate Faculty Member, Neuroscience & Cognitive Science Graduate Program (NACS), University of Maryland, College Park
2003 - 2005	Member, Center for Behavioral Neuroscience, Atlanta
2003 - present	Member, International Society for Neuroethology
2000 - present	Member, Society for Neuroscience

## Awards & Honors

- 2012 Emerging Scholars Program Award; College of Behavioral and Social Sciences, University of Maryland, College Park
- 2008 Research Support Award; General Research Board, Graduate School, University of Maryland, College Park
- 2007 Faculty Mentor Award; Philip Merrill Presidential Scholars Program, University of Maryland, College Park
- 2006 Summer Research Award; General Research Board, Graduate School, University of Maryland, College Park

## Publications

### A) Peer-reviewed articles and book chapters

1. **Herberholz J.** (2014) Neurobiology of social status in crustaceans. In: The Natural History of the Crustacea, Vol. 3: Crustacean Nervous Systems and Their Control of Behavior, C. Derby and M. Thiel (eds). Oxford University Press, 457-483.
2. **Herberholz J.** (2013) Serotonergic modulation of aggression. In: Serotonin: Biosynthesis, Regulation and Health Implications, F.S. Hall (ed.). NOVA Science Publishers, 27-51.
3. Sullivan J.M. and **Herberholz J.** (2013) Structure of the nervous system: general design. In: The Natural History of the Crustacea, Vol. 1: Functional Morphology and Diversity, L. Watling and M. Thiel (eds). Oxford University Press, 451-484.
4. **Herberholz J.** and Marquart G. (2012) Decision making and behavioral choice during predator avoidance. *Frontiers in Neuroscience* 6:125. doi: 10.3389/fnins.2012.00125.
5. **Herberholz J.**, Mishra S.H., Uma D., Germann M.W., Edwards D.H., and Potter K. (2011) Non-invasive imaging of neuroanatomical structures and neural activation with high-resolution MRI. *Frontiers in Neuroscience* 5:16. doi: 10.3389/fnbeh.2011.00016.
6. Liden W.H., Phillips M.L. and **Herberholz J.** (2010) Neural control of behavioral choice in crayfish. *Proceedings of the Royal Society B: Biological Sciences* 277: 3493-3500.
7. Liu Y.C. and **Herberholz J.** (2010) Sensory activation and receptive field organization of the lateral giant escape neurons in crayfish. *Journal of Neurophysiology* 104: 675-684.
8. **Herberholz J.** (2009) Recordings of neural circuit activation in freely behaving animals. *Journal of Visualized Experiments* 29, doi: 10.3791/1297.
9. Graham M.E. and **Herberholz J.** (2009) Stability of dominance relationships in crayfish depends on social context. *Animal Behaviour* 77, 195-199.
10. Liden W.H. and **Herberholz J.** (2008) Behavioral and neural responses of juvenile crayfish to moving shadows. *Journal of Experimental Biology* 211, 1355-1361.
11. **Herberholz J.** (2007) The neural basis of communication in crustaceans. In: Evolutionary ecology of social and sexual systems: crustaceans as model organisms, J. E. Duffy and M. Thiel (eds). Oxford University Press, 71-89.
12. **Herberholz J.**, McCurdy C. and Edwards D.H. (2007) Direct benefits of social dominance in juvenile crayfish. *Biological Bulletin* 213, 21-27.

13. Song C.-K., **Herberholz J.** and Edwards D.H. (2006) The effects of social experience on the behavioral response to unexpected touch in crayfish. *Journal of Experimental Biology* 209, 1355-1363.
14. Antonsen B.L., **Herberholz J.** and Edwards D.H. (2005) The retrograde spread of synaptic potentials and recruitment of presynaptic inputs. *Journal of Neuroscience* 25, 3086-3094.
15. Edwards D.H. and **Herberholz J.** (2005) Crustacean models of aggression. In: The Biology of Aggression, R. J. Nelson (ed). Oxford University Press, 38-61.
16. **Herberholz J.**, Mims C.J., Zhang X., Hu X. and Edwards D.H. (2004) Anatomy of a live invertebrate revealed by manganese-enhanced Magnetic Resonance Imaging. *Journal of Experimental Biology* 207, 4543-4550.
17. **Herberholz J.**, Sen M.M. and Edwards D.H. (2004) Escape behavior and escape circuit activation in juvenile crayfish during prey-predator interactions. *Journal of Experimental Biology* 207, 1855-1863.
18. Edwards D.H., Issa F.A. and **Herberholz J.** (2003) The neural basis of dominance hierarchy formation in crayfish. *Microscopy Research and Technique* 60, 369-376.
19. **Herberholz J.**, Sen M.M. and Edwards D.H. (2003) Parallel changes in agonistic and non-agonistic behaviors during dominance hierarchy formation in crayfish. *Journal of Comparative Physiology A* 189, 321-325.
20. **Herberholz J.**, Antonsen B.L. and Edwards D.H. (2002) A lateral excitatory network in the escape circuit of crayfish. *Journal of Neuroscience* 22, 9078-9085.
21. Drummond J., Issa F.A., Song C.K., **Herberholz J.**, S.R. Yeh and D.H. Edwards (2002) Neural mechanisms of dominance hierarchies in crayfish. In: The Crustacean Nervous System, K. Wiese (ed). Springer Verlag, Berlin, 124-135.
22. **Herberholz J.**, Issa F.A. and Edwards D.H. (2001) Patterns of neural circuit activation and behavior during dominance hierarchy formation in freely behaving crayfish. *Journal of Neuroscience* 21, 2759-2767.
23. Edwards D.H., Antonsen B.L. and **Herberholz J.** (2001) Network, neuronal and biochemical computations in the escape circuit of crayfish. In: Proceedings of the Eleventh Yale Workshop on Adaptive and Learning Systems, K. S. Narendra (ed). Center for Systems Science, Yale University, New Haven, 225-232.
24. **Herberholz J.** and Schmitz B. (2001) Signaling via water currents in behavioral interactions of snapping shrimp (*Alpheus heterochaelis*). *Biological Bulletin* 201, 6-16.
25. **Herberholz J.** and Schmitz B. (1999) Flow visualisation and high speed video analysis of water jets in the snapping shrimp (*Alpheus heterochaelis*). *Journal of Comparative Physiology A* 185, 41-49.
26. **Herberholz J.** and Schmitz B. (1998) Role of mechanosensory stimuli in intraspecific agonistic encounters in the snapping shrimp (*Alpheus heterochaelis*). *Biological Bulletin* 195, 156-167.
27. Schmitz B. and **Herberholz J.** (1998) Snapping behaviour in intraspecific agonistic encounters in the snapping shrimp (*Alpheus heterochaelis*). *Journal of Biosciences* 23, 623-632.

**B) Published conference contributions**

1. **Herberholz J.**, Swierzbinski M.E., and Lazarchik A.R. (2014) Interactions between social status and alcohol intoxication in crayfish. *Society for Neuroscience 44<sup>th</sup> Annual Meeting*; 181.16
2. Hu R., Murphy M. and **Herberholz J.** (2014) Monoaminergic modulation of sensory inputs to the crayfish medial giant escape neurons. *Society for Neuroscience 44<sup>th</sup> Annual Meeting*; 181.17
3. Swierzbinski M.E. and **Herberholz J.** (2014) Inhibitory properties of the medial giant escape circuit in crayfish. *Society for Neuroscience 44<sup>th</sup> Annual Meeting*; 181.18
4. Venuti L.S., Swierzbinski M.E. and **Herberholz J.** (2014) Investigation of fast autoinhibition in the lateral giant circuit of crayfish. *Society for Neuroscience 44<sup>th</sup> Annual Meeting*; 181.19
5. **Herberholz J.**, Swierzbinski M.E., and Hu R. (2014) Modulation of neural thresholds in a decision-making circuit. *Conference Abstract: Eleventh International Congress of Neuroethology*; PO2194
6. Swierzbinski M.E. and **Herberholz J.** (2012) Interactions between alcohol and GABAergic inhibition in the escape circuit of crayfish. *Front. Behav. Neurosci. Conference Abstract: Tenth International Congress of Neuroethology*. doi: 10.3389/conf.fnbeh.2012.27.00327
7. Uma D. and **Herberholz J.** (2012) Are juvenile crayfish attracted to their natural predators? *Front. Behav. Neurosci. Conference Abstract: Tenth International Congress of Neuroethology*. doi: 10.3389/conf.fnbeh.2012.27.00196
8. Swierzbinski M.E. and **Herberholz J.** (2011) Effects of alcohol on escape behavior and underlying neural circuitry in crayfish. *Society for Neuroscience 41<sup>th</sup> Annual Meeting*; 944.09.
9. Richards J.M., Leonard J.R., Meshera N., **Herberholz J.**, Lejeuz C.W. and Daughters S.B. (2011) HPA axis response to stress predicts distress tolerance in a sample of cocaine users. *The College on Problems of Drug Dependence Annual Meeting*; 585.
10. **Herberholz J.**, Phillips M.L., Sichler, K. and Medley V.A. (2010) Crayfish select escape strategies based on external conditions and internal states. *Proceedings of the 9<sup>th</sup> International Congress of Neuroethology*, Salamanca, Spain; P150.
11. **Herberholz J.** and Liden W. H. (2009) Escape circuit activation and behavioral choice in juvenile crayfish. *Society for Neuroscience 39<sup>th</sup> Annual Meeting*; 287.
12. Medley V.A. and **Herberholz J.** (2009) Mechanisms underlying visual activation of the medial giant escape circuit in crayfish. *Society for Neuroscience 39<sup>th</sup> Annual Meeting*; 288.
13. **Herberholz J.** and Liu Y.-C. (2008) Receptive field organization of the giant escape neurons in crayfish. *Society for Neuroscience 38<sup>th</sup> Annual Meeting*; 198.4.
14. **Herberholz J.** (2007) Manganese-enhanced Magnetic Resonance Imaging in crayfish. *Proceedings of the 8<sup>th</sup> International Congress of Neuroethology*, Vancouver, Canada; SY45.
15. **Herberholz J.** and Liden W. H. (2007) Behavioral and neural responses of juvenile crayfish to visual threat stimuli. *Proceedings of the 8<sup>th</sup> International Congress of Neuroethology*, Vancouver, Canada; PO219.
16. **Herberholz J.** and Edwards D.H. (2005) The control of escape in crayfish through interactions of command neurons. *Society for Neuroscience 35<sup>th</sup> Annual Meeting*; 754.7.

17. **Herberholz J.**, Sen M.M. and Edwards D.H. (2004) Patterns of neural activity during escape from predators. *Society for Neuroscience 34<sup>th</sup> Annual Meeting*; 870.4.
18. Mims C.J., **Herberholz J.**, Zhang X., Hu X. and Edwards D.H. (2004) Anatomical and functional studies in the crayfish brain by means of manganese-enhanced Magnetic Resonance Imaging. *Proceedings of the 7<sup>th</sup> International Congress of Neuroethology*, Nyborg, Denmark; 251.
19. **Herberholz J.**, Sen M.M. and Edwards D.H. (2004) Behavioral and neural responses in crayfish to attacks from a natural predator. *Proceedings of the 7<sup>th</sup> International Congress of Neuroethology*, Nyborg, Denmark; 233.
20. Zhang X., **Herberholz J.**, Mims C. J., Edwards D.H. and Hu X. (2004) Observation of neural activity in crayfish with Mn-enhanced MRI. *Proceedings of the International Society of Magnetic Resonance in Medicine* 11: 1115.
21. **Herberholz J.**, Mims C.J., Zhang X. , Hu X. and Edwards D.H. (2003) Manganese-enhanced MRI of the crayfish brain. *Society for Neuroscience 33<sup>rd</sup> Annual Meeting*; 270.5.
22. Versteeg S., Antonsen B.L., Agran J., **Herberholz J.** and Edwards D.H. (2003) Simulation of the lateral excitatory network in crayfish based on anatomical and physiological data. *Society for Neuroscience 33<sup>rd</sup> Annual Meeting*; 270.8.
23. **Herberholz J.**, Antonsen B.L. and Edwards D.H. (2002) Lateral and retrograde amplification of sensory inputs to the lateral giant escape circuit of crayfish. *Society for Neuroscience 32<sup>nd</sup> Annual Meeting*; 60.9.
24. Antonsen B.L., **Herberholz J.** and Edwards D.H. (2002) Interactions between primary afferent neurons mediated through the dendrites of the lateral giant interneuron in crayfish. *Society for Neuroscience 32<sup>nd</sup> Annual Meeting*; 60.10.
25. **Herberholz J.**, Antonsen B.L. and Edwards D.H. (2001) Coupled sensory afferents form a presynaptic excitatory network in the terminal ganglion of crayfish. *Society for Neuroscience 31<sup>st</sup> Annual Meeting*; 307.8.
26. Antonsen B.L., **Herberholz J.** and Edwards D.H. (2001) The organization of sensory input to the lateral giant escape command neuron of crayfish. *Proceedings of the 6<sup>th</sup> International Congress of Neuroethology*, Bonn, Germany; 196.
27. Issa F.A., **Herberholz J.** and Edwards D.H. (2001) Patterns of tailflip escape behavior in crayfish during agonistic interactions. *Proceedings of the 6<sup>th</sup> International Congress of Neuroethology*, Bonn, Germany; 249.
28. Song C.K., **Herberholz J.**, Drummond J. and Edwards D.H. (2001) The behavioral response to unexpected touch depends on the agonistic condition in socially experienced crayfish. *Proceedings of the 6<sup>th</sup> International Congress of Neuroethology*, Bonn, Germany; 195.
29. **Herberholz J.**, Issa F.A., and Edwards D.H. (2000) The role of tailflip behavior in crayfish during dominance hierarchy formation. *American Zoologist* 40: 1053.
30. **Herberholz J.**, Issa F.A., and Edwards D.H. (2000) Hands-off-electrophysiology reveals a new offensive type of tail flip in fighting juvenile crayfish. *Society for Neuroscience 30<sup>th</sup> Annual Meeting*; 1725.

31. Song C.-K., **Herberholz J.**, Drummond J. and Edwards D.H. (2000) Social experience changes the behavioral response to unexpected touch in crayfish. *Society for Neuroscience 30<sup>th</sup> Annual Meeting*; 174.
32. **Herberholz J.** and Schmitz B. (1998) The visible water jet: flow visualisation in snapping shrimp (*Alpheus heterochaelis*). N. Elsner and R. Wehner (eds). Thieme, Stuttgart. *Proceedings of the 26<sup>th</sup> Göttingen Neurobiology Conference*; 242.
33. Schmitz B. and **Herberholz J.** (1998) Snapping movements and laser Doppler anemometry analysis of water jets in the snapping shrimp *Alpheus heterochaelis*. N. Elsner and R. Wehner (eds). Thieme, Stuttgart. *Proceedings of the 26<sup>th</sup> Göttingen Neurobiology Conference*; 241.
34. Schmitz B., **Herberholz J.**, Schultz S. and Wuppermann K. (1998) Behavioral and biophysical analysis of rapid waterjets in the snapping shrimp *Alpheus heterochaelis*. *Proceedings of the 5<sup>th</sup> International Congress of Neuroethology, San Diego, USA*; 183.
35. **Herberholz J.** and Schmitz B. (1997a) The role of visual and mechanosensory input during intraspecific agonistic encounters in the snapping shrimp (*Alpheus heterochaelis*). N. Elsner and H. Wässle (eds). Thieme, Stuttgart. *Proceedings of the 25<sup>th</sup> Göttingen Neurobiology Conference*; 251.
36. **Herberholz J.** and Schmitz B. (1997b) Sex-specific behaviour in intraspecific agonistic encounters in the snapping shrimp (*Alpheus heterochaelis*). *Verhandlungen der Deutschen Zoologischen Gesellschaft* 90: 355.

### **Research Grant Support (current)**

1. "Investigation of a novel glia-mediated inhibitory mechanism". PI: Jens Herberholz. Agency: College of Behavioral and Social Sciences, University of Maryland. Grant type: Research Initiative Award. Total costs: \$6,500. Funding period: 7/1/2014 – 6/30/2015.

### **Research Grant Support (past)**

2. "Identification of underlying mechanisms for decision-making and behavioral choice in crayfish". PI: Jens Herberholz. Agency: National Science Foundation. Grant type and number: Standard grant; IOS-0919845. Total costs: \$509,882. Funding period: 9/1/2009 – 8/31/2014.
3. "Can crayfish learn to associate specific visual features with an involuntary escape behavior?" PI: Jens Herberholz. Agency: University of Maryland, College of Behavioral and Social Sciences. Grant type: BSOS Emerging Scholars Program. Total costs: \$1,000. Funding period: 8/29/2012 - 12/11/2012.
4. "Integrative study of reward processes". Co-PIs: Jens Herberholz, Carl Lejuez, Laura MacPherson, Matthew Roesch, Richard Yi, Catalina Kopetz. Agency: University of Maryland, Division of Research. Grant type: DRIF support request; Tier 2 Incentive Program. Total costs (Herberholz): \$28,470. Funding period: 1/11/2011- 12/31/2011.
5. "Development of a new model system to study the effects of alcohol on neural circuitry that is modified by social experience". PI: Jens Herberholz. Agency: University of Maryland, Division of Research. Grant type: DRIF support request; Seed grant Type A. Total costs: \$49,985. Funding period: 4/1/2009-3/31/2011.

6. "Non-invasive imaging of escape circuitry in crayfish". PI: Jens Herberholz. Agency: University of Maryland, General Research Board. Grant type: Research Support Award. Total costs: \$3,500. Funding period: 7/1/08-6/30/09.
7. "Micro-imaging of brain activity in socially experienced crayfish". PI: Jens Herberholz. Agency: University of Maryland, General Research Board. Grant type: Summer Research Award. Total costs: \$8,750. Funding period: 6/1/06-8/31/06.
8. "The effects of conspecific odor on behavior of socially experienced crayfish". Co-PIs: Jens Herberholz, Charles Derby, Donald Edwards. Agency: National Science Foundation (Science & Technology Center Program). Grant type and number: Venture Grant; IBN-9876754. Total costs (Herberholz): \$26,600. Funding period: 11/30/2004-8/22/2005.
9. "Magnetic Resonance Imaging of the crayfish brain". Co-PIs: Jens Herberholz, Donald Edwards. Agency: National Science Foundation (Science & Technology Center Program). Grant type and number: Center for Behavioral Neuroscience Venture Grant; IBN-9876754. Total costs (Herberholz): \$30,000. Funding period: 5/31/2003-5/30/2004.

### **Editorial boards**

#### ***Journals***

- Behaviour (*Associate Editor*)
- Frontiers in Invertebrate Physiology (*Review Editor*)

#### **Ad hoc reviews**

##### ***A) Journals***

- Acta Ethologica
- Animal Behaviour
- Behavioral Ecology
- Behaviour
- Biological Bulletin
- Brain Research Bulletin
- Canadian Journal of Zoology
- Frontiers in Decision Neuroscience
- Frontiers in Invertebrate Physiology
- Hormones and Behavior
- Fundamental and Applied Limnology
- Journal of Comparative Neurology
- Journal of Comparative Physiology A
- Journal of Experimental Biology
- Journal of Neurophysiology
- Journal of Neuroscience
- Journal of Neuroscience Methods
- Journal of Physiology
- Journal of the Acoustical Society of America
- Journal of Visualized Experiments
- Marine and Freshwater Physiology and Behavior
- Physiology & Behavior
- PLoS
- Science

**B) Funding agencies**

National Science Foundation (NSF)

Natural Science and Engineering Research Council of Canada (NSERC)

**C) Others**

External review: UC Berkeley, Promotion & Tenure Committee.

Book chapter reviews:

- a. Chemical Communication in Crustaceans (Springer; T. Breithaupt & M. Thiel, eds.)
- b. Crustacean Nervous Systems and their Control of Behavior (Oxford University Press; C.D. Derby & M. Thiel, eds.)

Grants review: Tübingen-Maryland Bioscience, Neuroscience, and Cognitive Science Graduate Education Partnership.

**Recent Invited Talks**

- 2014 Unites States Institute of Peace, Washington, DC (*forthcoming*)
- 2014 Summer Neuroscience Conference, University of Maryland, College Park, MD
- 2014 National Institute of Child Health and Human Development, Bethesda, MD
- 2013 Maryland Neuroimaging Retreat, University of Maryland, College Park, MD
- 2013 Gordon Research Conference (Neuroethology), West Dover, VT (*cancelled*)
- 2013 Howard Hughes Medical Institute, Janelia Farm, Ashburn, VA
- 2012 College of Charleston, Dept. of Biology, Charleston, SC
- 2011 Johns Hopkins University, Dept. of Psychological & Brain Sciences, Baltimore, MD
- 2010 University of Maryland Baltimore County, Dept. of Biology, Baltimore, MD
- 2010 9<sup>th</sup> International Congress of Neuroethology, Salamanca, Spain
- 2010 St. Mary's College of Maryland, Dept. of Psychology, St. Mary's City, MD
- 2009 University of California, Dept. of Behavioral Ecology and Evolution, Los Angeles, CA

**Mentorship (current and past)**

*University of Maryland, College Park:*

- Postdoctoral Associates [1]
- Faculty research assistants [6]
- Graduate students [4] (*NACS, Psychology*)
- Honors Students [4] (*Biology, Psychology*)
- Undergraduate students [40] (*Animal Sciences, Biology, Economics, Psychology*)
- High School students [22]

**Awards/fellowships/prizes received by supervised students:**

- APA Summer Science Fellowship
- APA/NIGMS Program for Minority Undergraduates Award
- APA Special Award ("Best project related to Psychology")
- BSOS Emerging Scholar Semester Award
- NIH Postbaccalaureate IRTA Program Fellowship



- NIH Program in Biomedical Research Summer Internship
- NIH/NCMHD Minority International Research Training Award
- Philip Merrill Presidential Scholar Award
- Ronald E. McNair Post Baccalaureate Achievement Program
- UMD Senior Summer Scholar Award
- Virginia State Science and Engineering Fair, 1<sup>st</sup> Place

## **Teaching Experience**

*University of Maryland, College Park:*

### **A) Undergraduate Courses**

*Animal Behavior (PSYC403)*

2006 – 2012, 2014; Lecture course; Average enrollment: 36; Average evaluation score: 3.57 (out of 4.0)

*Neuroethology (PSYC406)*

2007 - 2012, 2014. Lecture course; Average enrollment: 36; Average evaluation score: 3.60 (out of 4.0).

*Topics in Neurosciences Undergraduate Seminar (PSYC409)*

2008-2009. Seminar course. Average enrollment: 6; Average evaluation score: 3.60 (out of 4.0).

*Biopsychology of Aggression (PSYC489M)*

2013. Seminar course. Enrollment: 4.

### **B) Graduate Courses**

*Topics in Neurosciences Graduate Seminar (PSYC789C)*

2005-2007. Seminar course. Average enrollment: 6; Average evaluation score: 3.69 (out of 4.0).

*Research Methods in Psychology (PSYC889)*

2008. Seminar course. Enrollment: 12; Evaluation score: 2.57 (out of 4.0).

*Biopsychology of Aggression (PSYC798L)*

2008-2013. Seminar course. Average enrollment: 5; Average evaluation score: 3.84 (out of 4.0).

*Introduction to Neuroscience (NACS641)*

2013-2014. Lecture course; Average enrollment: 12; Average evaluation score: 3.47 (out of 4.0).

## **Academic Service**

*University of Maryland, College Park:*

### **A) University**

- Member of the Review Committee for the Dean, College of BSOS (2013)
- Member of the Biological and Chemical Hygiene Committee (2008-2010)

### **B) Psychology Department**

- Member of the Graduate Committee (2012)
- Member of the Executive Committee (2011 - 2014)
- Member of the Vision Committee (2010 - 2011)

- Member of the Space Committee (2009)
- Member of the Faculty Salary Committee (2008-2009)
- Member of the Faculty Recruiting Committee (2007-2009)
- Member of the Graduate Studies Committee (2006-2007)
- Member of the Promotion & Tenure Committee (2005-2006 & 2007-2008)

### **C) Neuroscience & Cognitive Science (NACS) Program**

- Director (since 2013)
- Member of the Executive Committee (2011-2013)
- Chair of the NACS-Fest Organizational Committee (2006-2011)
- Member of the Graduate Admissions Committee (2005-2009)

### **D) Student Committees**

#### Thesis Defense Examination committees:

- Ph.D. students [4] (NACS)
- Masters Students [3] (Psychology)
- Honors Students [4] (Biology, Psychology)

#### Advisory committees:

- Masters Students [1] (NACS)
- Ph.D. students [20] (Bioengineering, Biology, NACS, Psychology)

### **E) Other Services**

- Served on local organizing committee for the 10<sup>th</sup> International Congress of Neuroethology, Maryland, USA
- Served as faculty advisor for Psychology majors enrolled in the “Minor in Neuroscience Program”, University of Maryland (2008-2009)
- Serving as research advisor and student mentor to the Neuroscience Research Laboratory, Thomas Jefferson High School for Science and Technology, Alexandria, VA (since 2007).