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**PERSONAL INFORMATION**

**Business Address**

Biological Sciences / Psychology  
Rowan University  
Glassboro NJ 08027.  
Phone: 856-256-4500 x 3404  
E-mail: hough@rowan.edu

**Home Address**

3 Gemini Court  
Sewell, NJ 08080  
856-582-5299  
jerry@jerryandkerry.com

**CURRENT POSITION**

9/03 – Present Associate Professor of Biological Sciences and Psychology, Rowan University, Departments of Biological Sciences and Psychology (50% appointment in each)  
3/13 – Present Associate Professor (Secondary Appointment), Department of Biomedical Sciences, CMSRU, Camden NJ

**EDUCATION**

Ph.D. **Department of Ecology, Evolution and Organismal Biology (3/98-12/00)**  
**The Ohio State University**, Columbus, Ohio. Behavioral Neuroscience group.  
Dissertation Title: Learning, forgetting, and remembering: retention of song in the adult songbird. Advisors: Susan F Volman, Ph.D. & Douglas A Nelson, Ph.D.  
M.S. **Department of Zoology, The Ohio State University (9/93-3/98)**  
Columbus, Ohio. Behavioral Neuroscience group, non-thesis.  
Advisor: Susan F Volman, Ph.D.  
B.S. **Department of Biological Sciences, Purdue University (8/87-5/92)**  
W. Lafayette, Indiana. Animal Physiology/Neurobiology program  
Thesis Title: Summary of wolf reproductive behavior (1977-1991) as seen in a captive wolf pack. Advisor: Erich Klinghammer, Ph.D. Department of Psychology.

**PROFESSIONAL EXPERIENCE**

Post-Doctoral Fellowship **Department of Psychology, Bowling Green State University (2000-2003)**  
Bowling Green, Ohio  
Research Focus: Internal representation of spatial information in the hippocampus of homing pigeons- presence of selective neurons to location, paths, and context.  
Grant Supervisor: Verner P. Bingman, Ph.D.  
Adjunct Faculty **Department of Psychology, Heidelberg College (2002)**. Tiffin, Ohio

**COLLABORATORS**

Dr. V.P. Bingman, Bowling Green State University, Ohio  
Dr. M.C. Kahn, Indiana University Southeast, Indiana  
Dr. S.F. Volman, National Institutes of Health: NIDA  
Dr. Russell Buono, Cooper University Hospital, Camden NJ.  
Dr. Barry Waterhouse, Rowan SOM, Stratford NJ.

**TEACHING HISTORY**

2003- **Associate Professor**, Rowan University, Glassboro NJ.  
Biological Sciences & Psychology (dual appointment).  
Courses: Cognitive Neuroscience, Cellular/Molecular Neuroscience, Psychopharmacology and the Biological Bases of Behavior, Biological Bases of Behavior, Research Methods in Learning & Behavior, General Biology- Human Focus, Physiological Psychology, Comparative Vertebrate Anatomy, Psych of Scientific Thinking, Animal Behavior, Biology II, Seminar in Neurobiology, Seminar in Sensory Physiology, Seminar on Biology of Science Fiction, Seminar on Neurodegenerative diseases.  
2002 **Adjunct Faculty Instructor**, Psychology Department, Heidelberg College, Tiffin OH.  
2000-03 **Post-doctoral Fellow**, Bowling Green State University, OH  
Training of graduate students in proper laboratory and physiological techniques, assisted graduate research projects in both data analysis and writing skills

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1993-2000      **Teaching Assistant, Research Assistant**, Ohio State University, Columbus OH.  
Comparative Anatomy, Form and Function, General Biology, Introduction to Physiology,  
Neurobiology, Animal Physiology, Neuroscience

**MEETINGS ATTENDED**

**Research**

Eastern Psychological Association Meeting, 2010  
American Ornithologists' Union, 1999, 2007, 2008, 2009\*, 2011, 2014 (\* Local Conference Cmte)  
Society for Neuroscience, 1996, 1997, 1999, 2000, 2001, 2003, 2005, 2007, 2016  
Rowan University S.T.E.M. Symposium, 2005-2008, 2010-Current  
Rowan University Psychology Conference. 2007, 2009, 2010, 2011, 2012, 2015-Current  
Avian Brain Nomenclature Forum, Duke University NC, 2002.  
Acoustical Society of America, 1999  
Animal Behavioral Society, 1998, 1999, 2012, 2014, 2017  
Association for Research in Otolaryngology, 1995  
Midwest Regional Animal Behavior, Oct 1997  
CogFest 1997, Ohio State University, Nov 1997  
J.B. Johnston Society Annual Meeting & Karger Workshop, 1996, 1997, 2000, 2001

**Service**

American Fed. of Teachers National Convention, 2010-present (Higher Ed Cmte, Voting Delegate,  
Ranking Delegate 2016, 2018)  
AFT Higher Education Conference, Voting Delegate, 2010-present.  
AFT New Jersey Annual Convention, Seaview NJ. Voting Delegate, 2012

**INVITED PRESENTATIONS:**

Hough, G.E. (2018, April 22). Visual Illusions. Talk given to Rowan Family Science Sunday as part of Philadelphia Science Festival. [https://sites.rowan.edu/stemcenter/philly\\_sci\\_festival/science\\_sunday.html](https://sites.rowan.edu/stemcenter/philly_sci_festival/science_sunday.html)  
Hough, G.E. (2018, March 14). Where the heck did I leave my keys? Cumberland Community College, Bridges to Rowan (CB2R) Program.  
Hough, G.E. (2015, July 24). Neuroscience and Biological Psychology. STEAM Ahead presentation, Rowan University.  
Hough, G.E. (2014, February 23). Where did I leave my keys? Spatial Memory and Aging. South Jersey Brain Bee, Stratford NJ.  
Hough, G.E. (2013, April 24). Seaside sparrow science at the shore. Hollybush Institute Environment and Health Seminar Series, Glassboro NJ.  
Hough, G.E. (2013, May 23). Birds- a novel model animal for language, learning, and aging research. SOM/Rowan Basic Science Retreat.  
Hough, G.E. 2011. The neural bases of spatial learning and memory: what bird brains can tell us. Psychiatry Grand Rounds, Cooper Health System, Camden NJ. Given on 01/11/2011.  
Hough, G.E. 2010. Homing Pigeons, hippocampus, and the neural representation of our world. Invited Presentation. Neurology Grand Rounds, Cooper Health System, Camden NJ. October 29.  
Hough, G.E. 2006. Homing Pigeons and Honeycreepers- how birds help us learn about ourselves. Wild Birds Unlimited Sewell NJ. August 17.  
Hough, G.E. 2005. Different Islands, different languages: the inter-island differences in 'amakihi whisper songs. Ecol & Evolution Graduate Program Seminar, Rutgers: New Brunswick NJ. March 3.

**PRESENTATIONS:**

Gaul, K., Mikic, M., Otto, C., & Hough, G. (2018, May). Effects of age on observational learning using UV light cues in homing pigeons. STEM Conference, Rowan University.  
Richards, J. K.\*, & Hough, G. E. (2017, June 27). Regional song dialects in the Atlantic seaside sparrow (*Ammodramus maritimus*). Animal Behavior Society, Toronto, Canada.  
Richards, J. K.\*, Verticelli, R. M.\*, Corbett, C. M.\*, Elliott, C. F.\*, Juniewicz, K. J.\*, et al. (2016, April). Decreased performance of old homing pigeons (*Columba livia*) in completing a two-choice spatial task. Psychology Conference, Rowan University.  
Berke, J.\*, & Freund, J\*. (2015, April 10). Old Birds Lose it. Pennsylvania Chapter of Society for Neuroscience Conference, Philadelphia PA. [Students won Best Undergraduate Poster award]

- Shiple, F.\* , Berke, J.\* , Gartenberg, G.\* , Freund, J.\* , Achee, S.\* , & Hough, G.E. (2014, June). Old Birds Lose it: the impact of aging and deterioration of working memory on homing pigeon spatial cognition. Animal Behavior Society, Princeton NJ.
- Shiple, F.\* , Berke, J.\* , Gartenberg, G.\* , Freund, J.\* , Achee, S.\* . (2014, April 25). The effects of age on working memory and spatial strategies in homing pigeons. STEM Conference, Rowan University.
- Waldburger, L.\* , Castro, B.\* , Coppola, V.J., & Hough, G.E. 2013. Song dialects in the south New Jersey Atlantic Seaside Sparrow. Animal Behavior Society, Boulder CO.
- Castro, B.\* , Waldburger, L.C.\* , Saffer, A.E.\* , & Hough, G.E. 2013. The effects of age on working memory in homing pigeons. STEM Conference, Rowan University, 4/26.
- Waldburger, L.\* , Castro, B.\* , Coppola, V.J., & Hough, G.E. 2013. Song dialects in the south New Jersey Atlantic Seaside Sparrow. Psych Research Conference, Rowan University, 4/19.
- Coppola, V.J.\*<sup>a</sup>, Waldburger, L.\* , & Hough, G.E. The effects of age and goal characteristics in a homing pigeon match-to-location task. July 2012. Animal Behavior Society, Albuquerque NM. (<sup>a</sup>Student nominated for Undergraduate Poster Award)
- Coppola, V.J., Waldburger, L.\* , & Hough, G.E. The effects of age and goal characteristics in a homing pigeon match-to-location task. April 2012. Rowan University S.T.E.M. Symposium.
- Coppola, V.J., Waldburger, L.\* , & Hough, G.E. The effects of age and goal characteristics in a homing pigeon match-to-location task. April 2012. Psychology Research Conference, Rowan University, Glassboro NJ.
- Nankoo, V.P.\* , Baumann, K.M.\* , Brzostowski, M.R.\* , & Hough, G.E. Do old pigeons need maps? The effects of aging on pigeon hippocampus spatial responses. April 2011. S.T.E.M. Symposium, Rowan University, Glassboro NJ.
- Baumann, K.M.\* , Nankoo, V.P.\* , Brzostowski, M.R.\* , & Hough, G.E. The effects of aging on pigeon hippocampal spatial responses. April 2011. Psychology Research Conference, Rowan University, Glassboro NJ.
- Goodman, J.\* , Nankoo, V.\* , Chaiken, K.\* , White, A.\* , DiPasquale, A.\* , Pascale, M.\* , & Hough, G.E. The inability to use a time-dependent light cue as a directional reference to plan small-scale food-directed movements in homing pigeons (*Columba livia*). April 2010. S.T.E.M. Symposium, Rowan University, Glassboro NJ.
- Goodman, J.\* , Nankoo, V.\* , Chaiken, K.\* , White, A.\* , DiPasquale, A.\* , Pascale, M.\* , & Hough, G.E. The inability to use a time-dependent light cue as a directional reference to plan small-scale food-directed movements in homing pigeons (*Columba livia*). March 2010. Eastern Psychological Association, New York NY.
- Beddia, K.R.\*+, & Hough, G.E.. Inter-Island Whisper Song Divergence In A Species Of Hawaiian Honeycreeper, The 'Amakihi. June 2008. American Ornithologists Union conference. Portland OR. (+Recipient of AOU Student Travel Award)
- Hough, G.E. Different Islands, Different Bird Languages: The Inter-island differences in 'Amakihi (*Hemignathus* spp.) whisper songs. August 2007. American Ornithologists Union conference. Laramie WY.
- Sloan, J.\* , Hough, G.E. Effects of rotating proximal vs. distal cues on small-scale navigation in the homing pigeon. April 2007. Rowan University Psychology Research Conference.
- Chawla, M.\* , Hough, G.E. Effects Of Rotating Proximal Cues On Small-scale Navigation In The Homing Pigeon. April 2007. Department of Biological Sciences Summer Seminar Series Presentation, Rowan University.
- LaPergola, J.\* , Kabis, K.\* , Guito, J.\* , Hough, G.E. Navigational strategies of homing pigeons in a small-scale experimental arena. April 2006. S.T.E.M. Symposium, Rowan University, Glassboro NJ.
- Breyer, K.\* , Hough, G.E. Different Islands, Different Bird Languages: The Inter-island differences in 'Amakihi (*Hemignathus* spp.) whisper songs. April 2005. S.T.E.M. Symposium, Rowan University, Glassboro NJ.
- Hough, G.E., Bingman, V.P. Effects of light cue rotation on spatial response profiles of individual neurons in the homing pigeon hippocampus. April 2005. Society for Neuroscience, Washington D.C.
- Hough II, G.E. and Bingman, V.P. Spatial response properties of homing pigeon hippocampal neurons: goals and paths. November 2003. Society for Neuroscience, New Orleans, LA.
- Siegel, J.J., Hough II, G.E., Nitz, D. & Bingman, V.P. Space-specific single-unit activity in the homing pigeon hippocampus: a first order analysis. October 2002. Society for Neuroscience, Orlando, FL.
- Kahn, M.C., Hough II, G.E., GR Ten Eyck, Bingman, V.P. Radial glia and neurogenesis-like labeling in the hippocampus of adult homing pigeons. November 2001. Society for Neuroscience, San Diego, CA.
- Ten Eyck, G.R., Kahn, M.C., Hough II, G.E., & Bingman, V.P. Intrinsic connections of the homing pigeon hippocampus: an anterograde pathway tracing study. November 2001. Society for Neuroscience, San Diego, CA.
- Hough II, G.E., Bingman, V.P., & Pang, K.C.H. How to build an avian hippocampus: subdivisions, connectivity, and comparisons with mammals. July 2001. Ohio University Neuroscience Program Retreat, Burr Oak State Park, OH.

- Hough II, G.E., Bingman, V.P., & Pang, K.C.H. Connectivity among homing pigeon hippocampal subregions as determined by electrophysiological stimulation/recording techniques. November 2001. Society for Neuroscience, San Diego CA.
- Hough II, G.E., Nelson, D.A., & Volman, S.F. Re-expression of songs deleted during development in a closed-ended songbird, the white-crowned sparrow. October 1999. Society for Neuroscience 26: 723.
- Nelson, D.A., Gaunt, S.L.L., Beeman, K., Burnett, S.C. & Hough II, G.E. 1999. The digital archiving project at the Borror Laboratory of Bioacoustics. American Ornithologists' Union 117th Meeting, Ithaca NY.
- Hough II, G.E. 1999. Re-expression of songs deleted during development in white-crowned sparrows. Animal Behavior Society, Bucknell PA.
- Hough II, G.E. and Volman, S.F. 1997. Auditory responses in nucleus HVc to songs deleted during development. Society for Neuroscience 23: 245.
- Hough II, G.E. and Volman, S.F. 1996. Long-term effects of song perturbation on song production in zebra finches. Society for Neuroscience 22: 963.
- \* Indicates undergraduate student author.

### **PEER REVIEWED PUBLICATIONS**

- Coppola, V.J., Hough, G.E. & Bingman, V.P. (2014). Age-related spatial working memory deficits in homing pigeons (*Columba livia*). *Behavioral Neuroscience*, 128(6), 666-675. [Impact factor: 2.7]
- Winker, K, Reed, J.M., Escalante, P., Askins, R.A., Cicero, C., Hough, G.E., & Bates, J. (2010). The Importance, Impacts, and Ethics of Bird Collecting. *The Auk*, 127(3), 690-695. [Impact factor: 1.8]
- Hough G.E., & Bingman, V.P. (2008). Rotation of Visual Landmark Cues Influences the Spatial Response Profile of Hippocampal Neurons in Freely-moving Homing Pigeons. *Behavioral Brain Research*, 187(2), 473-477. [Impact factor: 3.4]
- Jarvis, E.D., Güntürkün, O., Bruce, L., Csillag, A., Karten, H., Kuenzel, W., Medina, L., Paxinos, G., Perkel, D.J., Shimizu, T., Striedter, G.F., Wild, M., Ball, G.F., Dugas-Ford, J., Durand, S., Hough, G., Husband, S., Kubikova, L., Lee, D.W., Mello, C.V., Powers, A., Siang, C., Smulders, T.V., Wada, K., White, S.A., Yamamoto, K., Yu, J., Reiner, A., Butler, A.B. 2005. Avian brains and a new understanding of vertebrate brain evolution. *Nature Reviews: Neuroscience*, 6, 151-159. [Impact factor 14.8]
- Bingman, V.P., Gagliardo, A., Hough II, G.E., Ioalé, P., Kahn, M.C., & Siegel, J.J. 2005. The avian hippocampus, homing in pigeons and the memory representation of large-scale space. *Journal of Integrative and Comparative Biology*, 45, 555-564. [Impact factor: 2.6]
- Hough G.E. & Bingman V.P. 2004. Spatial response properties of homing pigeon hippocampal neurons: correlations with goal locations, movement between goals, and environmental context in a radial-arm arena. *Journal of Comparative Physiology A: Sensory, Neural, and Behavioral Physiology* 190: 1047-1062. [Impact factor: 2.0]
- Reiner, A., Perkel, D.J., Bruce, L., Butler, A.B., Csillag, A., Kuenzel, W., Medina, L., Paxinos, G., Shimizu, T., Striedter, G.F., Wild, M., Ball, G.F., Durand, S., Güntürkün, O., Lee, D.W., Mello, C.V., Powers, A., White, S.A., Hough, G., Kubikova, L., Smulders, T.V., Wada, K., Dugas-Ford, J., Husband, S., Yamamoto, K., Yu, J., Siang C., & Jarvis, E.D. (2004). Revised nomenclature for avian telencephalon and some related brainstem nuclei. *Journal of Comparative Neurology*, 473, 377-414. [Impact factor: 3.8]
- Bingman, V.P., Hough II, G.E., Kahn, M.C., & Siegel, J.J. (2003). The homing pigeon hippocampus and space: in search of adaptive specialization. *Brain, Behavior, and Evolution*, 62, 117-127. [Impact factor: 1.4]
- Kahn, M.C., Hough II, G.E., TenEyck, G.R., & Bingman, V.P. (2003). Internal connectivity of the homing pigeon (*Columba livia*) hippocampal formation: An anterograde and retrograde tracer study. *Journal of Comparative Neurology*, 459, 127-141. [Impact factor: 3.8]
- Hough II, G.E., Pang, K.C.H., & Bingman, V.P. (2002). Intrahippocampal connections in the pigeon (*Columba livia*) as revealed by stimulation evoked field potentials. *Journal of Comparative Neurology*, 452, 297-309. [Impact factor: 3.8]
- Hough II, G.E., & Volman, S.F. (2002). Short- and long-term effects of vocal distortion on song maintenance in zebra finches. *Journal of Neuroscience*, 22, 1177-1186. [Impact factor: 7.4]
- Hough II, G.E., Nelson, D.A., & Volman, S.F. (2000). Re-expression of songs deleted during vocal development in white-crowned sparrows, *Zonotrichia leucophrys*. *Animal Behaviour*, 60, 279-287. [Impact factor: 3.4].

### **OTHER ACTIVITIES AND NON-PEER REVIEWED PUBLICATIONS**

- Scott, J. & Hough II, G.E. February 2005. Should faculty agree to background checks? They protect the safety of all. *AFT On Campus* 24(5): p. 4.

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Scott, J. & Hough II, G.E. December 2004. Background checks with fingerprinting not outrageous. *New Jersey Voice of Higher Education Labor* (Dec): p. 2.  
Graphic Artist: shirt.woot.com, www.teefury.com, www.redbubble.com, Rowan AFT local #2373.

**BOOKS AUTHORED OR EDITED**

Garrett, B. & Hough, G.E. 2017. *Brain & Behavior* (5<sup>th</sup> Edition). Sage Press: Thousand Oaks, CA.  
Garrett, B. 2014. *Brain & Behavior* (4<sup>th</sup> Edition). Sage Press. Major Contributor to Fourth Edition and sole author of all ancillary resources and Student Study Guide.  
Garrett, B. 2011. *Brain & Behavior* (3<sup>rd</sup> Edition). Sage Press. Major Contributor to Third Edition and sole author of Instructor's Resources for text.

**SERVICE (Includes Mentorship items)**

Department of Psychology:

- Tenure and Recontracting Committee, 2009-2013, 2015-2017, 2018-current [Chair 2009-2012, 2015, 2016-2017, 2018-2019]
- Psychology Open Houses and New Student Orientations, 2009-current.
- Doctoral Program Committee, 2011- 2013
- Curriculum Committee, 2003-2008, 2010-2016
- Promotional Standards Committee 2006-2013 [Chair]
- Faculty Search Committee, 2004-2006, 2008, 2011-2015, 2018-2019
- Promotion Committee 2009-2012, 2014
- Undergraduate Advising Coordinator, 2010-2011
- C.A.R.B.B.S (Current Areas of Research Brown Bag Series), 2005- 2013
- Career Development Committee, 2008-2013 [Chair 2008-2009]
- University Senate Representative, 2008-2010 (leadership roles listed below)

Department of Biological Sciences:

- Curriculum Chair (2017-2018)
- Open House representative for Biological Sciences, 2005-current
- Sabbatical Committee (2013-2015)
- Professional Development Committee (A328; 2013-2015)
- University Senate Representative, 2010-2012 (leadership roles listed below)
- Department Hiring Committee for Full-Time Instructors, 2012-2013
- S.O.A.R Summer Orientation, 2006-2007, 2008-2010
- Transfer Orientation Advisor, 2006-2012
- Evaluator, Biology Core I, II, IV. 2006-2007.
- AFT Representative, 2005-Current (leadership roles listed under Community and University)
- Departmental Chair Elections Committee, Rowan University, 2003-2010 (Chair: 2005-2006.)
- Representative to Rowan Sciences Day Cmte, 2007-2011, 2013-2015 [Co-chair: 2009-2011]
- Tenure and Recontracting Committee: 2008-2009, 2011, 2012-2013 [Chair 2012-2013]
- Promotion Committee: 2009-2011, 2013-2015.

Rowan University Community:

- AFT Local #2373 Negotiator (2014-Current)
- Member of 3-person Rowan Negotiation Team, CNJSCL with State of New Jersey, 2011-current.
- Institutional Animal Care and Use Committee, Rowan University, 2005-2012; 2013-2015 [Vice-chair: 2005-2009; Chair: 2009-2012; 2013-2015].
- Senate Research Committee (2014-2015)
- College of Sciences & Mathematics faculty mentoring program (2013-2015)
- University Tenure & Recontracting Committee (2013-2015)
- AFT Local #2373 Vice President II (2013-2015)
- Learning Management System Committee (2013-2015)
- Faculty Advisor- Adrienne Bush: Bantivoglio Honors Research Assistantship (2013-2014).
- Faculty Advisor- Rowan University Equestrian Team (2013-2015)
- At-Large Member, Rowan University Senate (2012-2015)
- Senate Technological Resources Committee, 2005-2013 [Chair 2010-2011, 2012-2013]

- AFT Local #2373 Delegate to Council of NJ State College Locals (CNJSCL: 2009-2013)
- CNJSCL Elections Committee (2011-2013).
- CLAS Summer Grants Program, Proposal Review, 2011, 2013
- Senate Ad-Hoc Committee on Computer and Information Literacy, 2010-2011
- Senate Representative to the Board of Trustees Audit Committee, 2011-2015
- Cooper Medical School of Rowan University (CMSRU) Curriculum Committee, Co-chair of Doctoring subcommittee, Neuro-Psychology curriculum content development, 2009-2011.
- CMSRU Research Committee, 2010-2013
- CMSRU Hiring Committee for Founding Basic Sciences Faculty Lines: 2011-2012
- CLAS Math/Science Curriculum Committee, 2008-2013
- Ad-Hoc Committee on On-Line and Hybrid courses, 2008-2010.
- Ad-Hoc Committee on Criminal Background Checks and Fingerprinting, 2005-2006.

Wider and Professional Community:

- Courier-Post, April 14, 2018, page 1A. "Can we learn about aging from homing pigeons?"
- Elected Fellow, American Ornithologists Union, Spring 2017.
- Member and Secretary, Conservation Committee, American Ornithologists' Union, 2008-2016.
- Cooper Research Week, Discussant and Evaluator of posters (2010-2012)
- C.R.E.A.T.E. Faculty Development Workshop, New York City NY, 2007; Official Implementer 2008.
- Local Steering Committee, American Ornithologists Union Conference, Philadelphia PA, 2009. Introduced keynote speaker (Dr. Erich Jarvis), and coordinating day-to-day activities.
- Rowan Magazine, Summer 2006, page 7 "Prof homes in on pigeons for clues to human diseases".
- Pigeonbasics.com "Pigeons may offer insight into human diseases", May 9, 2006
- Philadelphia Inquirer, April 23, 2006, page L14, "Alzheimer's key sought in study of homing pigeons"
- The Whit, Rowan University Paper, April 20, 2006, "Homing pigeons help preserve memory"
- Coriell Science Fair: Judge (2004, 2005, 2008-current) and Team Leader (2007, 2010, 2011)
- Volunteer- Philadelphia Chapter of the Society for Neuroscience Brain Awareness Week, Franklin Institute, Philadelphia PA. 2010-current.
- Numerous presentations at local schools on pigeons, homing, memory, and birdsong
- ACT curriculum-based test reviewer for Biological Sciences core courses, 2006
- Manuscript review: Journal of Avian Biology, The Auk, Behavioural Brain Research, European Journal of Neuroscience.

**GRANTS AND AWARDS (submitted and received)**

Purdue University:

- School of Science Scholarship, 1987-1988

Ohio State University:

- Osborne Research Fellowship, 1995, 1996, 1997; Darwin Award, Department of Zoology Outstanding Poster Presentation, 1996; Darwin Award, Department of Zoology Outstanding Poster Presentation, 1997; Nomination, OSU Graduate School Presidential Fellowship, 1998

Rowan University:

- Principle Investigator. "Homing pigeons as an innovative model for age-related spatial deficits." National Institutes of Health: R15. \$366,525. 4/1/18 – 3/31/21. Not scored.
- Research Mentor. "Bridges to the Baccalaureate: Cumberland County College Bridge to Rowan University". NIH Biomedical Research and Research Training Grant (PI: Alison Krufka). \$1,342,212. 7/1/2016 – 6/30/2021.
- Principle Investigator, "Distribution and geographic variation of song in Atlantic seaside sparrows as indicators of saltmarsh quality". Blake-Nuttall Fund Grant, Nuttall Ornithological Club. \$1250. 3/1/15 – 2/28/2016. Completed.
- Principle Investigator, "Geographic variation of song and abundance of Atlantic seaside sparrows (*Ammodramus maritimus maritimus*)". Rowan College of Liberal Arts and Sciences Summer Grant Program. \$5000. 5/1/2012-8/31/2012.
- Principle Investigator, "Homing Pigeons as an innovative model for age-related spatial deficits". U.S. National Institutes of Health: National Institute on Aging/National Institute of Mental Health. \$370,137.

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Unfunded but positively received (Overall Priority Score: 53; Individual reviewer scores: 36, 26, 50).  
10/25/2010.

- Principle Investigator, “Effects of rotating colored landmarks on the spatial selectivity of homing pigeon hippocampal neurons,” Rowan University Non-Salary Financial Support Grant, \$3960, 2009-2010.
- Principle Investigator, “Effects of rotating colored landmarks on the spatial selectivity of homing pigeon hippocampal neurons,” Rowan University Non-Salary Financial Support Grant, \$4914, 2007-2008.
- Principle Investigator, “Comparison of avian vocalizations between two species of Hawaiian ‘amakihi: the effect of isolation on communication,” Rowan University Non-Salary Financial Support Grant, \$4650, 2006-2007.
- Principle Investigator, “Responses of hippocampal neurons to changes in spatial orientation in landmarks,” Rowan University, SBR Grant #275554, \$4360, 2004-2005.
- Awarded Adjusted Faculty Workload for research (25% effort), 2005-Present.

### **CURRENT AND PREVIOUS UNDERGRADUATE RESEARCH STUDENTS**

Department of Biological Sciences:

- Kate Breyer, Kristin Kabis, Joshua LaPergola, Alexander Habib, Jonathan Guito, Manmohit Chawla, Christine Germanio, Allison L White, Venita P Nankoo, Amanda DiPasquale, Kelli Chaiken, Kimberly Beddia, Michael Brztowski, Francis Accardo, Morgan Kerr, Sydney Achee, Kathryn Juniewicz, Claire Corbett, Caroline Otto\*.
  - Caroline Otto is currently a veterinary technician at Garden State Animal Hospital, and will be applying to veterinary schools in the fall.
  - Joshua LaPergola is currently a graduate student in the labs of Walter Koenig and Paul Sherman at Cornell University, Ithaca NY.
  - Manmohit Chawla is a research technician at Thomas Jefferson University and is applying to medical schools.
  - Alexander Habib is currently the Director for External Corporate Communications at L’Oreal USA.
  - Jonathan Guito is former graduate student at University of Medicine and Dentistry of New Jersey studying microbiology and molecular genetics.
  - Kate Breyer received her D.V.M. from University of Illinois Veterinary School in 2010 and is a Resident Veterinarian for Cornell University, Ithaca NY.

Department of Psychology:

- Jason Sloan, Jarid Goodman, Michael Pascale, Kimberly Baumann, Shannon Robinson, Vincent Coppola, Brais Castro, Lucas Waldburger, Ariele Monzo, Greer Gartenberg, Frank Shipley, Jenna Freund, Jason Burke, Kristin Snyder, Jonathan Wille, Victoria Livesey, Michael Pinter, Jared Richards\*, Camille Elliot, Richard Verticelli,
  - Lucas Waldburger worked in the Mood and Cognition Lab of Dr. Lauren Alloy at Temple University in Summer 2013 and is seeking a continued position there, Philadelphia PA.
  - Vincent Coppola is a graduate student in the Psychology Ph.D. program at Bowling Green State University, Bowling Green OH, working with Dr. Verner Bingman.
  - Jarid Goodman is an assistant professor of psychology at Delaware State University.
  - Jason Sloan is a Child/Adolescent Psychiatric Nurse at Bergen Regional Medical Center, NJ.

\* Indicates current student (as of Spring 2018).