

PROFESSIONAL SUMMARY OF QUALIFICATIONS:

- Respected Neurobiologist, Professor & Evaluator who applies academic knowledge, research skills, professional experience and diverse strengths to create accessible pathways for current graduate students & rising undergraduates.
- Leadership Specialist who prepares and advances the following: Pedagogy in Neurobiological & Physiological research, procedures, guidelines, assessments, strategies, human behavior, and community engagement.
- Experienced Education Administrator with demonstrated history of service, training, development, shaping policy, assessment, academic reviews, change implementation & building diverse communities in higher education.
- Accomplished in program oversight, project, grants management, curriculum development & conference presentations.
- Collects & analyzes data to evaluate effectiveness of academic programs & behavioral management systems; promotes an understanding of professional, leadership & management development in relation to improving organizations.
- Dedicated to inclusive staff development, promotion, retention, affirmation of diverse cultures, health issues, community engagement & interventions; adept in public speaking, team building & a strong sense of business acumen.
- Provides consultation focused on extensive bodies of research to administrators, educators, policy makers, accreditation, business & industries in local, national & international arenas.

PROFESSIONAL - ACADEMIC RESEARCH AND INSTRUCTION:

2008 - Present	Professor Lehigh University (LU)	Dept. of Biological Sciences
2019 - 2020	Interim Director of Africana Studies	LU College of Arts & Sciences
2015 - 2019	Director of Student Success	LU College of Arts and Sciences
1996 - 2007	Associate Professor	LU Dept. of Biological Sciences
1995 - 1996	Visiting Associate Professor	LU Dept. of Biological Sciences
1994 - 1995	Director Rutgers University (RU)	Academic Foundations
1993 - 1996	Associate Professor	RU Dept. of Biological Sciences
1987 - 1993	Assistant Professor	RU Dept. of Biological Sciences

PROFESSIONAL RESEARCH - INCIVILITY; RESTORATIVE JUSTICE:

2019 - Present *Transdisciplinary Research on Incivility in STEM Contexts* – Beckman Institute for Advanced Science & Technology University of Illinois at Urbana – Champaign, Lehigh University and Scholars across the STEM fields, social sciences and critical studies convened to discuss various accounts of, and definitions of and remedies for academic workplace incivility.

Research was proposed, accepted and distributed; data collection in process, surveys focused on restorative justice solutions, the problems in workplace situations characterized by microaggressions and incivilities creating a climate which impedes productivity and community building.

PROFESSIONAL FOUNDATIONS & BOARD MEMBERSHIPS:

2020 - Present **IAWBH Member - International Association on Workplace Bullying & Harassment**
– All officers need to role model exemplary behavior regarding bullying and harassment and behave courteously to others. Working in collaboration with the Association to support and influence the future of bullying research and practice.

2020 - Present **The Academic Parity Movement - Advisory Board Member:**
Increase awareness of issues among all involved stakeholders; surveying a total of 10,000 to explore multiple options of delineating problems; offering conferences & workshops; plans to provide resources to targets of bullying with legal and psychological support.

2020 - Present **PennFuture Board of Directors – Member of HR Subcommittee** - PA focused nonprofit advancing environmental protection plans to promote a clean-energy future via policy development, legal representation, diversity, inclusion and civic engagement strategies.

2020 - Present **CCAR Founding Member** - Community Conversations on Race – Monthly discussions on articles facilitated by Lehigh University and over 100 Leaders all around the US reaffirmed the need to stand together as a community, engage in candid dialogue and fight against systemic discrimination and racial disparities in our community & country; discussions may focus on articles, videos, books or works of art.

2020 – Present **Lehigh Valley Justice Institute** – Board of Directors - An independent nonpartisan research, policy, and advocacy organization working to develop and promote a reimagined criminal justice system that is equitable and fair for all. Employs a data-driven approach focused on the criminal justice processes of the Lehigh Valley area of Pennsylvania.

2020 – Present **National Association of Community and Restorative Justice** - promotes effective forms of justice that are safe, just, equitable, sustainable, reparative and socially constructive, addressing not only crime, but conflict, incivility, injustice and all forms of harm.

2019 – Present **IOA International Ombudsman Association Member:**
DEI – Diversity, Equity & Inclusion Task Force helps IOA internally evaluate itself on aligning with anti-racism practices & racial justice and defines parameters for ensuring IOA cultivates a diverse, equitable & inclusive environment that supports membership belonging and connection within the organization.

2018 - Present **EMI: End Mass Incarceration Group**, a sub-committee to set up a bail fund with POWER LV meeting with Allentown City Council, Chief of Police & the Community Leadership.

2018 - Present **PDFG Think Tank** comprised of a diverse group of Professional Women Administrators and Tenured Faculty who have managed hybrid positions; determines strategies & best practices on behalf of various colleges and universities.

2017 - Present **Environmental Advisory Council** – Allentown PA - Advises city government on environmental matters affecting the city. Provides opportunities for Allentown residents with environmental knowledge and a strong desire to conserve and protect our local natural

resources to influence government policies and community practices that impact the environment.

- 2017- 2020 **Faculty Senator** (Lehigh University)- Served on 2 subcommittees, meeting with Professors of Practice (Faculty Affairs Subcommittee) to align R&P with their role on campus & general counsel (Inclusive Community Subcommittee) to develop the faculty Code Of Ethics.
- 2016 - Present **Dr. Martin Luther King, Jr. Lunch** - Plans, organizes & facilitates annual forums in tribute to the Civil Rights Leader. Collaborates with the Psychology department and open as a community-based forum addressing issues of injustice, discrimination and small group conversations regarding race.
- 2014 - Present **Commission on Higher Education of the Middle States Association of Colleges and Schools (MSCHE) Board of Appeals and Evaluation Team Member** - Priority expertise & focus on HBCUs. **Review Committee Member** - 2014 - Medgar Evers; 2015 - Touro College; 2016 - University of Maryland Eastern Shore, 2017 - University of Virgin Islands; 2015 - **Hearing Panel** to consider appeal by Sojourner-Douglas College.
- 2010 - Present **BALANCE** - Black & Latinx Alumni Network for Community and Equity: Committee goals align elements of the LU's Path to Prominence plan to increase diversity, intellectual vibrancy, build an equitable & inclusive community.
- 1999 - 2010 **Allentown School District STEM Grant** – Successfully completed the STEM curriculum for 4 Middle Schools in partnership with Lehigh University.

PROFESSIONAL SERVICE & PEER REVIEW:

2020 Ford Review Panels

- 2017 **AWIS - "STEM & Gender – How to advocate for legislators to diversify the STEM workforce?"** Presented by: Dr. Marci Levine and Dr. Jennifer Swann. Reviewed basic principles of science advocacy, talking points about under-representation of women & minorities in STEM, and suggest ways to be an advocate to your legislative decision makers at the local, state or national level no matter your experience or role.
- 2017 **Research Competitiveness Program at the American Association for the Advancement of Science (AAAS) Peer-Review** -Assessment of Mississippi's NIH-funded Idea Network for Biomedical Research Excellence (MS -INBRE) program. MS-INBRE is a statewide network of collaborative partnerships among the University of Southern Mississippi (USM) 3 research institutions & 6 partners (Including 4 HBCUs) higher education institutions, designed to build sustainable biomedical research and training capacity in Mississippi.
- 2011 - 2015 **Howard University Capstone Institute - Mentor To HBCU Faculty** - In an NSF sponsored grant writing program.
- 2011 **HBCU-UP Implementation, ACE Implementation, and Planning Grant Panel Member** - Reviewed approximately 30 proposals designed to develop, implement and study innovative models and approaches for making dramatic improvements in the preparation and success of underrepresented minority students to booster graduate programs and the workforce.

- 2006 - 2013 **Integrative Organismal Systems – NSF Panel Member** - Participated in annual review of approx. 100 grants for the subdivision that supports research in the study of the structure & function of the brain & its role in behavior.
- 2003 - 2008 **Center for Behavioral Neuroscience (CBN) Panel Member** - For the annual review of one of the National Science Foundation's Science & Technology Centers. The CBN consists of 7 institutions in Atlanta which includes 3 HBCUs: Clark Atlanta University, Morehouse College & Spelman College & community partner organizations.
- 1995 **NIH Panel Member** - Study section that is now Neuroendocrinology, Neuroimmunology & Behavior. The panel reviewed approx. 100 applications on neurobiological basis of behavior with focus on neuroendocrine, neuroimmune, circadian rhythms & sleep systems.

PROFESSIONAL SERVICE – EXTERNAL ADVISORY BOARD:

- 2017 - Present ASCEND Grant - Morgan State.** The board oversees the progress of grant which is designed to increase minority participation in STEM. My work with Morgan State Prior to this award brought 9 students to Lehigh over 3 summers – one has been recruited and retained as a graduate student in our Neuroscience program
- 2006 - Present Delaware Center for Neuroscience Research.** The Center is a partnership between Delaware State and the University of Delaware and includes several young investigators supported by an NSF COBRE grant (obtained 2012). The board meets twice a year and has contributed significantly to the creation of an animal facility at Delaware State. Currently the majority of the faculty supported have obtained NIH or NSF support.

PROFESSIONAL – AWARDS & FELLOWSHIPS:

- March, 2016 Recipient “25 Women Who Are Changing Lehigh” Award
- March, 2013 Recipient Lehigh University - Martin Luther King Faculty Award
- June, 2006 Recipient Lehigh University Office of Multicultural Affairs Faculty Staff Award
“For Outstanding Contributions To Improving The Quality Of Student Life.”
- 1988 - 1989 Ford Foundation Postdoctoral Fellowship, National Research Council
Institute for Animal Behavior, Rutgers University (Newark)
- 1984 - 1987 Postdoctoral Fellowship, Reproductive Endocrinology Program University of Michigan
- 1980 - 1984 Reproductive Endocrinology, Pre-Doctoral Fellowship,
Department of Neurobiology and Physiology, Northwestern University
- 1979 - 1980 Northwestern University Graduate Fellowship, Department of Biological Sciences,
Northwestern University
- 1978 - 1979 Florida State University Graduate Fellowship, Psychology Department, Florida State

SERVICE – PROFESSIONAL ASSOCIATIONS:

- 2016 - Present **Chair Internal Advisory Board - Lehigh ADVANCE** - Program in the Provost's office, supports plans for chairs and broader faculty training; supports women in STEM, conducts recruitment trainings, and embarks on other bias-busting programs work in alignment with faculty track.
- 2014 - Present **Commission on Higher Education of the Middle States Association of Colleges and Schools (MSCHE):** Board of Appeals and Evaluation Team Member focused on HBCUs.
- 2010 - Present **National Biotech and Pharmaceutical Association (NBPA)** - An organization devoted to issues of minorities in the Life Sciences. Member of research team that developed & administered a survey of black professionals. Results were presented in a white paper.
- 2011 - 2015 **Society for Behavioral Neuroendocrinology (SBN):** Professional Development (Education Committee), Public Communication Committee, Diversity Committee, Board member, Program Committee. In the capacity of Chair of Professional Development, instituted a series of workshops that broadened the focus to include high schools and new members during our preconference workshops. Pre-Doctoral Students and new professors in professional development workshops and speed mentoring.
- 2011 - 2015 **The Society for College and University Planning (SCUP);** As Academy Council Chair, organized the Annual conference and compose the environmental scan; as a member of the Board of Directors, I assisted in the reorganization of the organization as they left the University of Michigan and hired a new Director; and supported the organization's first fellows as a member of the Annual Fund Committee.
- 2005 - 2012 **Society for Neuroscience (SFN)** - Active Member of the Committee on Professional Development and Diversity; advocated for more diverse membership and key note speakers; as a member of the Committee on Literacy/Public Education Committee, supported the educational initiatives that produced Brain Facts.
- 2006 - 2009 **Sigma Xi - Treasurer Lehigh Chapter** - helped organize and support the annual meeting.

RESEARCH GRANTS:

- 2007 - 2012 NSF - "Steroidal Regulation of Synaptic Input in the MPN mag"
Role PI; Total Award: \$446,000
- 2007 - 2008 PA-Department of Community & Economic Development - PITA X - Building Robots that Smell: A Summer Research Experience for Undergraduates in Engineering Role PI; Total Award: \$35,155
- 2005 - 2008 NIH- Sex Steroids Program Gender Identity; Program project Grant-University of Michigan Role: Subcontract; Total Award: \$130,360.00
- 2005 - 2007 PA-Department of Community & Economic Development - PITA IX: Enhancing Eight Grade Science and Math at Harrison Morton Middle School in Allentown
Role PI; Total Award: \$49,961.00
- 2004 - 2007 NSF - "REU-Site: Animal-like, Sensor-based Robot Motions: Learning from Nature"
Role PI; Total Award: \$402,286.00

- 2004 - 2006 PA-Department of Community & Economic Development - PITA VIII - Building Robots that Smell: A Summer Research Experience for Undergraduates in Engineering
Role: PI; Total Award: \$31,877.00
- 2001 - 2005 NSF -Exploring the Neuroanatomical Basis of Sexual Differentiation of Behavior
Role: PI; Total Award: \$684,933
- 1997 - 1998 NSF POWRE Award: Pheromonal Stimulation of Multi-Unit Activity in the MPN mag
Role: PI; Total Award: \$116,139
- 1996 - 1999 NIGMS Bridges to the Future Grant: Northern New Jersey Bridges Network: Essex County Community College, Union County Community College, Passaic County Community College and Rutgers the State University of New Jersey, Newark.
Role: Pi; Total Award: \$487,191
- 1991 - 1997 NIH FIRST Award: Neuroanatomy of Peptides Regulating Male Mating Behavior
Role: PI; Total Award: \$350,000
- 1989 - 1995 Supplemental to NIMH Training Grant; MBRS Program at Newark: PI Barry Komissaruk:
Role: Subproject PI: My share of Total Award: \$113,852
- 1989 - 1990 NSF Planning Grant "Location of Tachykinins in the Mating Behavior Pathway of the Hamster
- 1988 - 1989 Research Council, Rutgers Univ. Location of Tachykinins in the Mating Behavior Pathway
- 1988 - 1989 Biomedical Research Council Award, Rutgers University
Location of Tachykinins in the Mating Behavior Pathway
- 1987 - 1988 Research Council, Rutgers University Neuroanatomy of Substance P Neurons in the Limbic System
- 1984 Dissertation Year Grant, Graduate School Northwestern University
- 1981 - 1982 Grant in Aid of Research, Sigma XI Scientific Research Society

SELECT PUBLICATIONS (68+)– REFEREED JOURNALS:

- Ashkarran, A. A., Swann, J., Hollis, L., & Mahmoudi, M. (2021). The File Drawer Problem in Nanomedicine. *Trends in Biotechnology*, 39(5), 425–427. <https://doi.org/10.1016/j.tibtech.2021.01.009>
- Sharifi, S., Caracciolo, G., Pozzi, D., Digiacomio, L., Swann, J., Daldrup-Link, H. E., & Mahmoudi, M. (2021). The role of sex as a biological variable in the efficacy and toxicity of therapeutic nanomedicine. *Advanced Drug Delivery Reviews*, 174, 337–347. <https://doi.org/10.1016/j.addr.2021.04.028>
- Swann, Jennifer, Gael Boucka, and Sarah Stanlick. 2020. "Border Crossing for Universities: Creating a Culture of Diversity, Equity, and Inclusion." *The International Journal of Community Diversity* 20 (1): 1-9. doi:10.18848/2327-0004/CGP/v20i01/1-9.
- Baldwin-SoRelle, Carrie and Swann, Jennifer M. "Scholarly Bridges: SciComm Skill-Building with Student-Created Open Educational Resources," in *Open Pedagogy Approaches: Faculty, Library and Student Collaborations*, ed. Alexis Clifton & Kimberly Hoffman, Milne Library Publishing at SUNY Geneseo, 2020.

Brague, J. C., Lenchur, C. N., Hayden, J. M., Davidson, R. H., Corrigan, K., Santini, G. T., & Swann, J. M. (2018). BDNF infusion into the MPN mag is sufficient to restore copulatory behavior in the castrated Syrian hamster. *Hormones and Behavior*, *102*, 69–75. <https://doi.org/10.1016/j.yhbeh.2018.05.006>

Fiber, J.M., Adames, P. and Swann, J. (1993) Pheromones induce c-fos in limbic areas regulating male hamster mating behavior. *NeuroReport* 4,871-874

Swann, J.M. and Turek, F.W. (1985) Multiple oscillators regulate the timing of behavioral and endocrine rhythms in female golden hamsters. *Science* 228, 898-900.

Stephan, F.K., Swann, J.M. and Sisk, C.L. (1979) Anticipation of 24-hour feeding schedules in rats with lesions of the suprachiasmatic nuclei. *Behav. Neurol. Biol.* 25: 346-363.

PROFESSIONAL PRESENTATIONS (selected from 100+)

"Publishing: STEM" 2021 Ford Fellows' Virtual Conference

“Nuts & Bolts of Going on the Job Market-STEM.” Annual Ford Fellows conference, San Juan October, 2019.

“Border Crossing for Universities: Creating a Culture of Diversity, Equity, and Inclusion. 19th Annual Conference on Diversity in Organizations Communities & Nations – June, 2019 University of Patras, Greece.

“How to Thrive as a Woman in Neuroscience” Society for Neuroscience Annual Meeting, November, 2018, San Diego Convention Center

“When Paths Collide – Managing Conflict in the Workplace” Mentor-Mentee Professional Development Workshop (Panel member), Society for Neuroscience Annual Meeting, November 2016 San Diego Convention Center

“Deconstructing Affirmative Action” Lehigh Speaks: Challenging Global Concepts April 4th 2014

"Animal-like sensor-based robot motions: learning from nature. An interdisciplinary project for rising sophomores at Lehigh Univ. Proceedings of IMECE2007 2007 ASME International Mechanical Engineering Congress & Exposition November 11-15, 2007, Seattle, Washington, USA

"Hormonal regulation of behavior: a tale of two sexes" 2nd International Meeting on Steroids and the Nervous System Torino (Italy) February 2003

“Sex Differences in Brain and Behavior or This is Your Brain on Steroids” Keynote address – Woman’s and Black History Month, Middle Tennessee State University, March, 2002

“Sexual Differentiation of the Chemosensory Pathway” Binational Mexico-U.S. Workshop on Reproductive and Behavioral Neuroendocrinology, August, 1999 Queretaro, Mexico