

MARGUERITE MATTHEWS, PH.D.

(Updated January 2022)

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EDUCATION

University of Pittsburgh

Ph.D. in Neuroscience, 2012

Spelman College

B.S. in Biochemistry, 2005

Cum Laude, Academic Honors, Departmental Honors, Phi Beta Kappa

PROFESSIONAL EXPERIENCE

National Institute of Neurological Disorders and Stroke (NINDS) | Office of Programs to Enhance Neuroscience Workforce Diversity

Program Director, 2021–present

Scientific Program Manager, 2020–2021

Health Program Specialist, 2019–2020

- Provide support in program planning, solicitation, and evaluation to perform administrative functions related to diversity-focused research and training grants in neuroscience
- Provide support to extramural researchers regarding NINDS policies, procedures, and funding options within the NINDS mission and assist with application preparation
- Manage the Research Supplements to Promote Diversity and Re-entry in Biomedical Research to support high school students through junior faculty
- Review and evaluate scientific merit and relevance to the NINDS mission of grant applications received by OPEN, including the Research Supplements to Promote Diversity and Re-entry in Biomedical Research, NRSA Individual Predoctoral Fellowships to Promote Diversity in Health-Related Research (F31), the NIH Neuroscience Development for Advancing the Careers of a Diverse Research Workforce (R25), and the NIH Blueprint Program for Enhancing Neuroscience Diversity through Undergraduate Research Education Experiences (BP-ENDURE, R25)
- Develop resources and professional development workshops for NINDS and NIH Blueprint-funded trainees and early-stage investigators
- Lead NINDS outreach efforts, in collaboration with Young Women in Bio, to provide neuroscience activities for high school girls attending Prince George's County Public Schools
- Serve as a member of the NINDS Diversity Working Group, NINDS Health Equity Working Group, NINDS Strategic Plan Training and Diversity Task Force, NIH BRAIN Initiative Diversity Working Group, NIH Special Populations Research Forum
- Co-host the NINDS "Building Up the Nerve" Podcast, to discuss the life cycle of a grant, from idea to award, featuring NINDS staff and grantees.

Ripple Effect | Client: National Institutes of Health (NIH)

Science Policy Analyst, 2018–2019

- Provided analytic and policy support to the NIH Division of Biomedical Research Workforce
- Reviewed, assessed, and analyzed outcomes for recipients of the NIH Fellowship awards, with a focus on women and individuals from underrepresented racial/ethnic groups
- Assisted in management, review, and assessment of the process for researchers to apply for extensions to their NIH Early-Stage Investigator status; conducted data cleaning and analysis for extension requests; staffed the Early Stage Investigator Extension Committee

- Generated the annual data report for Research Supplements to Promote Diversity in Health-Related Research; present data to relevant NIH stakeholders

National Institutes of Health (NIH) | Office of the Director, Office of Extramural Research

Health Scientist/AAAS Science & Technology Policy Fellow, 2016–2018

- Provided scientific, analytical, and policy support to the Division of Biomedical Research Workforce and the Division of Loan Repayment
- Reviewed, assessed, and analyzed outcomes for recipients of the NIH Loan Repayment Program awards and Career Development awards, with a focus on women and individuals from underrepresented racial/ethnic groups; presented data to internal and external NIH stakeholders
- Expanded the marketing and recruitment of the NIH Loan Repayment Programs to increase early career researcher applicants each year
- Generated the annual data report for Research Supplements to Promote Diversity in Health-Related Research; present data to relevant NIH stakeholders
- Created an NIH-focused grant writing guide for individual and institutional applicants on the NIH Research Training and Career Development website

Oregon Health and Science University | Department of Behavioral Neuroscience

Postdoctoral Fellow, 2012–2016

- Used resting state functional connectivity MRI (rs-fcMRI) to compare brain connectivity of children with and without ADHD and identify endophenotypes of ADHD within sibling pairs
- Used rs-fcMRI to examine socioeconomic factors of infant brain organization, in collaboration with researchers at UC Irvine on data collection and analysis
- Trained student interns in project development and rs-fcMRI data analyses, taught and facilitated lab-wide intern didactic courses

ADDITIONAL EXPERIENCE

Portland State University | BUILD EXITO

Research Learning Community Coordinator, 2015–2016

- Recruited OHSU research labs to serve as Research Learning Communities (RLCs) and primary research mentors; facilitated scholars' RLC placements and mentor/scholar match process
- Implemented and led ongoing mentor training for RLC faculty and related personnel
- Served as liaison to scholars and RLCs to monitor progress
- Assisted in applicant review and scholar selection
- Taught workshops in resilience and self-advocacy

OHSU Fellowship for Diversity and Inclusion in Research (OFDIR)

Program Director, 2014–2016

- Developed program to recruit eligible racially and ethnically underrepresented postdoctoral fellows to OHSU
- Managed all major aspects of the program, including all program correspondence, recruitment of potential fellows and eligible OHSU faculty to serve as research mentors and facilitation of mentor/fellow matching
- Coordinated and led Oversight Committee meetings and candidate application reviews
- Provided relocation and transition assistance for new fellows

YES! Youth Engaged in Science Outreach Program

Program Director, 2012–2016

- Co-created this K-12 educational outreach program and coordinated outreach activities to expose local underrepresented youth and their families to science, research & STEM-related careers (including “Brain-in-a-Box” presentations, mental health workshops, lab tours)
- Taught “Brain-in-a-Box” curriculum on the nervous system and brain health to middle school science students; recruited and trained volunteers to teach Brain-in-a-Box curriculum
- Mentor local high school and college students in research, education, and career preparation
- Coordinated training projects and learning modules for all student interns in the Fair Lab
- Wrote grant applications for private foundation funding

PUBLICATIONS | Scientific

Lowden MR, **Matthews M**, Rivers RC, Hubbard LLN, Boone E, Muhammad T, Billingslea EN, Phillips Rohan J, Simmons J, Jackson S. (In press). Grassroots efforts to end structural racism throughout the United States National Institutes of Health. *Nature Medicine*.

Nikaj S, Roychowdhury D, Lund PK, **Matthews M**, Pearson K. 2018. Examining Trends in the Diversity of the NIH Participating and Funded Workforce. *FASEB J*, 32: 6410-22.

Matthews M, Fair DA. 2014. Resting state functional connectivity in developmental disorders. *The Journal of Child Psychology and Psychiatry*, 56(4):400-14.

Matthews M, Nigg JT, Fair DA. 2014. Attention Deficit Hyperactivity Disorder. In S. Andersen & D. Pine (Eds.), *The Neurobiology of Childhood*, 16:235-66.

Matthews M, Bondi B, Torres G, Moghaddam B. 2013. Hypoactive dopamine neurotransmission in dorsal striatum of adolescent rats. *Neuropsychopharmacology*, 38(7):1344-51.

Bondi C, **Matthews M**, Moghaddam B. 2012. Glutamatergic models of schizophrenia. *Current Pharmaceutical Design*, 18(12): 1593-1604.

Kim YB, **Matthews M**, Moghaddam B. 2010. Putative γ -aminobutyric acid neurons in the ventral tegmental area have a similar pattern of plasticity as dopamine neurons during appetitive and aversive learning. *Eur J Neuroscience*, 32(9):1564-72.

PUBLICATIONS | Opinion

Matthews, M. 2018. "Science is for everyone." *Science Not Silence: Voices from the March for Science Movement*. Ed. SF Sasse and L Tran. Cambridge: MIT Press, p. 99.

Matthews, M. 2018. “Belonging in STEM” March for Science Blog. <https://medium.com/marchforscience-blog/belonging-in-stem-dr-marguerite-matthews-story-c273d39210a3>

Matthews, M. 2017. “How to be a superstar with no instructions.” *Stories in Science*. <https://storiesinscience.org/2017/07/07/superstar-with-no-instructions/>

Matthews, M. 2016. “Recruiting a new generation in S.T.E.M.” *Abernathy Magazine*. <https://abernathymagazine.com/recruiting-stem/>

PRESENTATIONS

“How Can We Better Support Black and Other Under-Represented Scientists?” Study Group Session, American College of Neuropsychopharmacology Annual Meeting, 2021

“Black Lives Matter and Neuroscience: Maintaining the Movement.” Society for Neuroscience Webinar, 2021. (Panelist)

“How Can Knowledge about Racism’s Impact on Mental Health Inform Anti-Racist Efforts?” Symposium on Racism and Mental Health, Harvard McLean Hospital, 2021. (Speaker and panelist)

“Black Professionals in STEM Panel Discussion.” MRIGlobal Black History Month Event, 2021. (Panelist)

“Mentor-Mentee Spotlight: A Conversation with Dr. Bitu Moghaddam and Dr. Marguerite Matthews.” BlackIn Neuro Virtual Conference, 2020. (Panelist)

“Navigating a Career in the Biomedical Sciences.” University of Kansas Medical Center, Department of Anatomy and Cell Biology, 2020. (Invited speaker)

“Black Women Managing Wellness During COVID and Beyond.” Black Women in STEM 2.0 Webinar, 2020. (Panelist)

“Black Lives Matter and Neuroscience: Why This Moment Matters.” Society for Neuroscience Webinar, 2020. (Panelist)

“An OPEN Conversation About Diversity and Inclusion in Neuroscience,” Princeton University Neuroscience Institute, 2019. (Invited speaker)

“Cultivating Professionalism and Excellence in the Research Landscape.” Society for Neuroscience, Scientific Rigor Short Course, 2019. (Course faculty)

“Leveraging Leadership to Enhance Your Scientific Career.” Society for Neuroscience, Preparing the Next Generation of Neuroscience Leaders Conference, 2019. (Panelist)

“Becoming a Successful Woman in STEM.” University of the District of Columbia STEM Luncheon, 2019. (Invited speaker)

“Effective Mentoring Strategies: Reflections from Program Administrators and Participants.” National Academies of Sciences, Engineering, and Medicine Fellowship Roundtable, 2018. (Panelist)

“Overview of Trends in Research Supplements to Promote Diversity.” National Institutes of Health Trainee Advisory Committee, 2017. (Presenter)

“The fate of the furious PhD.” Center for Neuroscience at the University of Pittsburgh Annual Retreat, 2017. (Invited alumni speaker)

“Developing and communicating your public image.” Society for Neuroscience, Preparing the Next Generation of Neuroscience Leaders Conference, 2017. (Panelist)

“Small group training: Entering Mentoring curriculum and implementation plans.” National Institute on Neurological Disorders and Stroke, R25/T32 Diversity Workshop, 2017. (Facilitator)

“Building My Success, Block by Block.” Building Blocks to Success Luncheon, 2016. (Keynote speaker)

“Defining the expertise needed for the 21st century neuroscience workforce: A workshop.” Institute of Medicine, Forum on Neuroscience and Nervous System Disorders, 2014. (Panelist)

SERVICE & LEADERSHIP

- Nvolve Inc, Mentor (2021– present)
- ABCD Study Justice, Equity, Diversity, and Inclusion (JEDI) Advisory Council, Consultant (2021– present)
- DST Potomac Valley Alumnae Chapter Policies & Procedures Committee, Chair (2021–present)
- NIH Anti-Harassment Steering Committee (2020–present)
- NIH UNITE Committee on Internal Workforce & Workplace Culture (2020–present)
- Supporters of the 8 Changes for Racial Equity at NIH Steering Committee (2020–present)
- NINDS Health Equity Workgroup (2020–present)
- NINDS Diversity Working Group (2019–present)
- World Women in Neuroscience Executive Committee (2019–present)
- L'Oréal USA For Women in Science Fellowships Review Panel (2017, 2018, 2019, 2020, 2021)
- Society for Neuroscience's Neuroscience Scholars Program Mentor (2017–2020)
- NINDS Strategic Planning Training and Diversity Task Force (2020)
- Society for Neuroscience Virtual Conference on Power Dynamics, Co-Organizer (2019)
- Student Spaceflight Experiments Program Mission 13 Step 2 Review Panel (2018, 2019)
- Society for Neuroscience Scientific Rigor Short Course Working Group (2017–2019)
- DC STEM Fair, Grand Prize Award Judge (2018)
- AAAS Federal Innovation and Research Evaluation Affinity Group, Co-Chair (2017–2018)
- Society for Neuroscience Professional Development Committee (2016–2018)
- Presidential Early Career Awards for Scientists & Engineers Review Committee (2016, 2017)
- OHSU creativeIDEAS Committee on Doctoral Education (2016)
- Society for Neuroscience's Neuroscience Scholars Program Class Advisor (2015–2016)
- Urban League of Portland Young Professionals, Membership Chair (2015–2016)
- Raphael House of Portland Board of Directors (2014–2016)
- Society for Neuroscience Trainee Advisory Committee (2013–2015)
- Urban League of Portland Young Professionals, Policies & Procedures Chair (2012–2015)
- Society for Neuroscience Advocacy Working Group (2013–2014)
- OHSU Women in Academic Medicine Committee (2013–2014)
- Urban League of Portland Young Professionals Civic Engagement Committee (2012–2014)

PROFESSIONAL TRAINING

- NINDS Executive Level Project Management Course (2021)
- NIH Mid-level Leadership Program (2020-2021)
- Introduction to Program Evaluation for Planning, Improvement, and Measurement Course (2017)
- National Research Mentoring Networking Facilitating Mentor and Mentee Training (2015)

AWARDS & HONORS

- NIH Director Award, Office of the Director Group Recipient (2021)
- NINDS Director Award for Scientific Collaboration (2021)
- NINDS Director Awards (x2) for Diversity Achievement (2021)
- NINDS Director Award (2020)
- NINDS Director Award for Diversity Achievement (2020)
- NIH Performance Management Appraisal Program Award (2017, 2018, 2019, 2020)
- NINDS Director Award for Innovation (2019)
- Paul Shin Memorial Award for Communicating Science to the Public (2018)
- NIH Director Award, Team Honor (2017)

AFFILIATIONS & MEMBERSHIPS

- Coalition for the Public Understanding of Science
- DC Area Phi Beta Kappa Association
- Delta Sigma Theta Sorority, Inc., Potomac Valley Alumnae Chapter
- National Alumnae Association of Spelman College
- Society for Neuroscience
- Supporters of the 8 Changes for Racial Equity at NIH
- World Women in Neuroscience