

Curriculum Vitae

Ishmail Abdus-Saboor

Jerome L. Greene Center, 3227 Broadway, Quad 6C
New York, NY 10027

Email: ia2458@columbia.edu
website: <https://www.abdus-saboorlab.com/>
Last updated: Aug 2021

Education

- 2012 **University of Pennsylvania**, Ph.D. in Cell and Molecular Biology
Thesis: *EGF-Ras-Erk pathway and HMX homeodomain protein MLS-2 promote tube development in the C.elegans excretory system*. Advisor: Meera Sundaram, Ph.D.
- 2006 **North Carolina A&T State University**, B.S. in Animal Science, *summa cum laude*

Positions

Columbia University

2021– Assistant Professor of Biological Sciences (in the Zuckerman Mind Brain Behavior Institute)

University of Pennsylvania

2018–2021 Mitchell J. and Margo Krody Blutt Presidential Assistant Professor of Biology
2014–2018 Postdoctoral Fellow, Department of Neuroscience

Weill Cornell Medicine

2012–2014 Postdoctoral Fellow, Neuroscience

Honors, Prizes, and Fellowships

- 2021 Kavli Fellow of the National Academy of Sciences, Frontiers of Science Symposium
2021 Alfred P. Sloan Foundation Research Fellowship
2020 Rita Allen Foundation Scholar, Award in Pain
2018 NIH Mitchell Max Award for Excellence in Pain Research
2018 Mitchell J. and Margo Krody Blutt Presidential Endowed Professorship
2017 NIH K99/R00 Pathway to Independence Award
2017 M.I.T., Rising Stars in Biomedical
2017 BRAINS Fellowship, University of Washington/NIH
2016 Burroughs Wellcome Fund Collaborative Research Travel Grant
2016 Carl Storm Gordon Research Conference Fellowship
2015 Burroughs Wellcome Fund PDEP Postdoc Fellowship
2014 NIH IRACDA Penn-PORT Postdoc Fellowship
2012 Tom Kadesch Prize in Genetic Research
2011 Society for Developmental Biology Award
2009 NIH Predoctoral Training Grant in Genetics
2006 Gloria Twine Chisum Graduate Fellowship

Grant Support

- 9/2021 – 8/2023 Alfred P. Sloan Research Fellowship. \$75,000 direct costs. Role: PI
- 9/2020 – 8/2023 Rita Allen Foundation Scholar in Pain Award. “Discovering behavioral signatures of

pain at millisecond timescales.” \$150,000 direct costs. Role: PI

9/2017 – 8/2021 NIH K99/R00 Pathway to Independence Award (DE026807). “Determining the functions of molecularly defined populations of nociceptors in spinal and dental pain.” \$1,116,555 total costs. Role: PI

9/2015 – 8/2018 Burroughs Wellcome Fund Postdoctoral Enrichment Program. “Defining the neural mechanisms mediating crosstalk between touch and pain.” \$60,000 direct costs. Role: PI

6/2016 – 12/2017 Burroughs Wellcome Fund Collaborative Research Travel Grant. “Optogenetic and brain imaging investigation of pain neural circuitry.” \$8,000 direct costs. Role: PI; Co-I: Jin Lee, Stanford

9/2014 – 7/2017 NIH IRACDA Postdoc Fellowship (K12 GM081295). “Dissect neural mechanisms underlying the crosstalk between touch and pain.”

9/2009 – 8/2011 NIH Predoctoral Training Program in Genetics (T32 GM008216)

Pre- and Postdoctoral Fellowships Awarded to Trainees

Justin Burdge	NIH Predoctoral Training Program in Genetics (UPenn)
Juan Inclan-Rico	Life Sciences Research Foundation Postdoctoral Fellowship
Erin (Evonne) Jean	NSF Graduate Research Fellowship
Leah Middleton	NIH Predoctoral F31 Fellowship
Melanie Schaffler	NIH Predoctoral F31 Fellowship

Publications

Note: all publications have authors listed in the order as published. Authorship convention in the field: lead senior author is listed last; lead junior author is listed first (asterisks denote joint lead authorship)

Principal Investigator

In preparation

Middleton, L., Schaffler, M., Succi, I., Foster, W., Ejoh, L., Gradwell, M., G. Abaira, V., **Abdus-Saboer I.** “Touch neurons of social and sexual pleasure” [Preparing for Sept submission]

Research papers

- [1] Bohic M., Pattison L., Jhumka A., Rossi H., Thackray J., Ricci M., Foster W., Arnold J., Mossazghi N., Yttri E., Tischfield, M.A., Smith E.S.J., **Abdus-Saboer I.***, Abaira V*. “Behavioral and nociceptor states of inflammatory pain across timescales in 2D and 3D.” *bioRxiv* (2021)
- [2] Toussaint A., Foster W., Jones J.M., Kaufmann S., Wachira M., Hughes R., Bongiovanni A.R., Famularo S.T., Dunham B., Schwark R., Karbalaei R., Dressler C., Bavley C.C., Fried N.T., Wimmer M., **Abdus-Saboer I.** “Chronic paternal morphine exposure increases sensitivity to morphine-derived pain relief in male progeny.” *bioRxiv* (2021), *in revision at Science Advances*

- [3] Burdge J., Fried N., **Abdus-Saboer I.** “Using high-speed videography for objective and reproducible pain measurement on a mouse pain scale.” *Star Protocols* 2,100322 (2021)
- [4] Jones J.M., Foster W., Twomey C.R., Burdge J., Ahmed O.M., Pereira T.D., Wojcik J.A., Corder G., Plotkin J.B., **Abdus-Saboer I.** “A machine-vision approach for automated pain measurement at millisecond timescales.” *eLife* 9:e57258 (2020).
- [5] Rossi H.L., See L.P., Foster W., Pitake S., Gibbs J., Schmidt B., Mitchell C.H., **Abdus-Saboer I.** “Evoked and spontaneous pain assessment in a dental pulp injury model.” *Scientific Reports* 17;10(1):2759 (2020).
- [6] Pitake S., Middleton L.J., **Abdus-Saboer I.**, Mishra S.K. “Inflammation induced sensory nerve growth and pain hypersensitivity requires the N-type calcium channel Cav2.2.” *Front Neurosci.* 19;13:1009 (2019).

Book Chapters

- [7] **Abdus-Saboer I.**, Luo W. “Measuring mouse somatosensory reflexive behaviors with high-speed videography, statistical modeling, and machine learning” in “*Contemporary approaches to the study of pain: from molecules to neural networks.*” (Editor: Rebecca Seal) *Springer Nature*, 2021 (in press)

Invited Reviews

- [8] Middleton L.J., **Abdus-Saboer I.** “Bridging skin, brain, and behavior to understand pleasurable social touch.” *Current Opinion in Neurobiology* (under review)
- [9] Inclan-Rico J.M., Kim B.S.*, **Abdus-Saboer I.*** “Beyond somatosensation: Mrgprs in mucosal tissues.” *Neuroscience Letters* Feb 11;135689 (2021)
- [10] Fried N.T., Chamesian A., Zylka M.J., **Abdus-Saboer I.** “Improving pain assessment in mice and rats with advanced videography and computational approaches.” *Pain* 161(7):1420-1424 (2020).
- [11] Schaffler M.D., Middleton L.J., **Abdus-Saboer I.** “Mechanisms of tactile sensory phenotypes in autism: current understanding, and future directions for research.” *Current Psychiatry Rep.* 5;21(12):134 (2019).

Postdoctoral Fellow

- [12] **Abdus-Saboer I.**, Fried N.T., Lay M., Burdge J., Swanson K., Fischer R., Jones J., Dong P., Cai W., Guo X., Tao Y.X., Bethea J., Ma M., Dong X., Ding L., Luo W. “Development of a mouse pain scale using sub-second behavioral mapping and statistical modeling.” *Cell Reports* 6;28(6):1623-1634 (2019).
- [13] Olson W., **Abdus-Saboer I.**, Cui L., Burdge J., Raabe T., Ma M., Luo W. “Sparse genetic tracing reveals regionally specific functional organization of mammalian nociceptors.” *eLife* 12;6:e29507 (2017).
- [14] Cui L., Miao X., Liang L., **Abdus-Saboer I.**, Olson W., Fleming M.S., Ma M., Tao Y.X., Luo W. “Identification of early RET+ deep dorsal spinal cord interneurons in gating pain.” *Neuron* 91, 1–17 (2016).

- [15] **Abdus-Saboer I.**, Al Nufal M.J., Agha M.V., Ruinart de Brimont M., Fleischmann A., Shykind B.M. “An expression refinement process ensures singular odorant receptor gene choice.” ***Current Biology*** 26, 1083–90 (2016).
- [16] **Abdus-Saboer I.**, Fleischmann A., Shykind B. “Setting limits: maintaining order in a large gene family.” ***Transcription*** 5:e28978 (2014).
- [17] Fleischmann A., **Abdus-Saboer I.**, Sayed A., Shykind B. “Functional interrogation of an odorant receptor locus reveals multiple axes of transcriptional regulation.” ***PLoS Biology*** 11(5):e1001568 (2013).

Graduate Student

- [18] **Abdus-Saboer I.**, Stone C.E., Murray J.I., Sundaram M.V. “The Nkx5/Hmx homeodomain protein MLS-2 is required for proper tube cell shape in the *C.elegans* excretory system.” ***Developmental Biology*** 366, 298–307 (2012).
- [19] **Abdus-Saboer I.**, Mancuso V.P., Murray J.I., Palozola K., Norris C., Hall D.H., Howell K., Huang K., Sundaram M.V. “Notch and Ras promote sequential steps of excretory tube development in *C.elegans*.” ***Development*** 138, 3545–3555(2011).

Courses Taught (percentage denotes portion of the course)

University of Pennsylvania

BIOL 221: Molecular Biology and Genetics. 50%, 140 students. Spring 2021

BIOL 221: Molecular Biology and Genetics. 50%, 150 students. Spring 2020

BIOL 221: Molecular Biology and Genetics. 50%, 130 students. Spring 2019

Lectures in various courses

NGG 588: Topics in Translational Neuroscience, Spring 2020

Penn Summer Academies: Neuroscience Research Academy, 2019

Penn Summer Academies: Biomedical Research Academy, 2019

Research Advising: (*denotes underrepresented minority, which includes 15 of 25 trainees)

Postdoctoral Fellows (3)

2021–present *Anissa Jhumka

2020–present *Juan Inclan-Rico (co-mentored with Debroski Herbert at Penn)

2018–2021 Heather Rossi

Current: Research Associate in Debroski Herbert lab at Penn

Doctoral Students (5)

2020–present Ryan Schwark, Neuroscience

2020–present Justin Burdge, Biology

2020–present *Erin (Evonne) Jean, Immunology (co-mentored with Debroski Herbert at Penn)

2018–present Leah Middleton, Neuroscience

2018–present *Melanie Schaffler, Neuroscience

Graduate Rotation Students (7)

Rachel Frazer, Neurobiology and Behavior (Fall 2021)

*Lindsay Ejoh, Neuroscience (Fall 2020)
*Erin (Evonne) Jean, Immunology (Summer 2020)
Ryan Schwark, Neuroscience (Spring 2020)
Justin Burdge, Biology (Fall 2019)
Leah Middleton, Neuroscience (Fall 2018)
*Melanie Schaffler Neuroscience (Summer 2018)

Post-Bac Technicians (4)

2021–present *Jared Boyce
2020–present Isabella Succi
2018–2021 William Foster
Current: Technician in Bianca Marlin lab at Columbia’s Zuckerman Institute
2018–2020 *Jessica Jones
Current: PhD student in John Tuthill lab at University of Washington

Undergraduates (6)

2019–2021 *Justin Arnold, Biological Basis of Behavior
2019–2021 Lucie Pham, Biology
2019–2020 Samuel Kaufmann, Biology
2015–2019 Justin Burdge, Health and Societies
Current: PhD student in Abdus-Saboer lab
2019 Emma Lu, Biology
2018–2019 *Migyana Thomas

Summer Interns (7)

2020 *Kayla Dennis
2020 *Camille Harrison
2020 *Meghan Wachira
2019 Isabella Succi
Current: Technician in Abdus-Saboer lab
2019 *Syphane Gibbs
Current: PhD student in Ukpong Eyo lab at University of Virginia
2019 *Racquel Amadi
2019 *Mariatu Fayia

Graduate Student Qualifying Exam and/or Thesis Advisory Committees

Columbia University

Eliza Jaeger (Maria Tosches lab), Biological Sciences Graduate Group, 2021
Yasmin Ramadan (Oliver Hobert lab), Biological Sciences Graduate Group, 2021

University of Pennsylvania

Brandon Bastien (Michael Hart lab), Neuroscience Graduate Group. 2020 – present
Jessica Wojick (Greg Corder lab), Biology Graduate Group, 2020
Michelle Klima (Nick Betley lab), Neuroscience Graduate Group. 2020 – present
Melina Gyparaki (Melike Lakadamyali lab), Biology Graduate Group. 2019 – 2021
Bishwas Sharma (Brian Gregory lab), Biology Graduate Group. 2019 – 2021

Luigim Cifuentes (Marc Fucillo lab), Neuroscience Graduate Group. 2019

Yongjun Li (Amita Sehgal lab), Biology Graduate Group, 2019

Linyang Ju (Shelley Berger lab), Biology Graduate Group, 2019

Invited Research Talks

- | | |
|---|----------|
| 102. MBL in Woods Hole: Society of General Physiologists Annual Symposium | 9/7/23 |
| “Mapping the pain landscape: From Molecules to Medicine” | |
| 101. Gordon Conference , Amygdala Function in Emotion, Cognition and Disease, Spain | 7/11/23 |
| 100. Gordon Conference , Neurotrophic Mechanisms in Health and Disease, Rhode Island | 6/1/23 |
| 99. Gordon Conference , Molecular and Cellular Neurobiology, California | 7/25/22 |
| 98. Northwestern University , Department of Physiology and Pain Center Seminar Series | 6/24/22 |
| 97. Harvard Medical School , Mass. Gen. Hospital, Dpt. of Molecular Biology Seminar Series | 5/20/22 |
| 96. University of North Carolina at Chapel Hill , Neuroscience Seminar Series | 4/14/22 |
| 95. Brandeis University , Biology and Neuroscience Colloquium | 3/29/22 |
| 94. Keystone Symposium , Vertebrate Sensory Systems, California | 2/14/22 |
| 93. University of Washington , Department of Biological Structure Seminar Series | 1/27/22 |
| 92. New York University (NYU) , Center for Neural Science Seminar Series | 12/20/21 |
| 91. McGill University , Canada, Frontiers in Pain Research Seminar Series | 12/1/21 |
| 90. Harvard University , Brain Science Initiative, Neurobiology of Pain Event | 10/5/21 |
| 89. Harvard Medical School , Department of Neurobiology Seminar Series | 10/4/21 |
| 88. Johns Hopkins University , Blaustein Pain Grand Rounds | 9/24/21 |
| 87. AnaBios Corporation , Pain Seminar Series | 9/2021 |
| 86. University of California San Francisco (UCSF) , Neuroscience Seminar Series | 9/2/21 |
| 85. Brown University , Samuel M. Nabrit Conference for Early Career Scholars,
Department of Molecular Biology, Cell Biology, & Biochemistry | 8/2/21 |
| 84. Newcastle University , UK, Centre for Behaviour and Evolution Seminar Series | 7/6/21 |
| 83. Brain Initiative Investigator’s Meeting , Diversity of the Social Brain Symposium | 6/17/21 |
| 82. Columbia University , Department of Biological Sciences Seminar Series | 5/17/21 |
| 81. Salk Institute for Biological Studies , Thursday Seminar Series | 4/8/21 |
| 80. Williams College , Class of 1960 Scholar Speaker Series | 3/31/21 |
| 79. University of Southern California (USC) , Neurobiology Seminar Series | 3/22/21 |
| 78. Texas Pain Research Consortium , Seminar Series | 3/15/21 |
| 77. George Washington University , IBS Neuroscience Seminar Series | 3/11/21 |
| 76. University College London , Gatsby Computational Neuroscience Series | 3/5/21 |
| 75. University of Chicago , Neuroscience Seminar Series | 2/23/21 |
| 74. New York University School of Medicine , Marie Daly Speaker Series | 2/19/21 |
| 73. Duke University , Department of Neurobiology Seminar Series | 2/16/21 |
| 72. Allen Institute for Brain Science , Inaugural Black History Month Seminar Series | 2/9/21 |
| 71. Middlebury College , Neuroscience Seminar Series | 2/5/21 |
| 70. University of California San Diego (UCSD) , Neuroscience Seminar Series | 1/12/21 |
| 69. Northeastern University , Biology Colloquium | 12/7/20 |
| 68. Washington University in St. Louis , Anesthesiology Research Seminar Series | 12/1/20 |
| 67. Weill Cornell Medicine , Frontiers in Neuropsychiatry Seminar Series | 11/24/20 |
| 66. University of Pittsburgh & Carnegie Mellon University , CNBC ERC Series | 11/18/20 |

65. **UT Health San Antonio**, Dpt of Pharmacology & Center for Biomedical Neuroscience 11/11/20
64. **Johns Hopkins University**, Department of Biology Seminar Series 11/5/20
63. **University of Iowa**, Neuroscience Institute Seminar Series 10/30/20
62. **Neuromatch Meeting**, Keynote Lecture 10/28/20
61. **University of Michigan**, Department of Molecular, Cell, Developmental Biology 10/16/20
60. **Johns Hopkins University**, Department of Biochemistry and Molecular Biology 10/12/20
59. **Columbia University**, Zuckerman Institute, Breakthroughs in Neuroscience Series 9/29/20
58. **National Institutes of Health**, Animal Genetics Consortium 9/24/20
57. **Drexel University**, Department of Neurobiology and Anatomy Seminar Series 9/23/20
56. **Georgetown University**, Department of Pharmacology and Physiology 9/10/20
55. **National Institutes of Health**, Early Career Investigators in Addiction Neuro Series 8/12/20
54. **University of Pennsylvania**, Diversity Action Plan in Genomics summer program 8/3/20
53. **Johns Hopkins University**, Department of Pharmacology & Molecular Sciences 7/22/20
52. **Stanford University & Chinese Academy of Sciences**; Neuro Zoom 7/6/20
51. **University of Virginia**, Neuroscience Department, Inaugural Juneteenth Lecture 6/15/20
50. **Pain Research Forum**; moderated by Cheryl Stucky, Wisconsin 3/24/20
49. **Rowan University**, Molecular and Cellular Biosciences Seminar Series 2/28/20
48. **Temple University**, Neuroscience Seminar Series 2/12/20
47. **Keystone Symposium**, "Pain: Aligning the Target", Colorado 2/3/20
46. **University of Pennsylvania**, Dermatology Research Seminar Series 1/14/20
45. **University of Pennsylvania**, Neuroscience Graduate Group Public Lecture on Pain 12/5/19
44. **University of Pennsylvania**, Psychology Department Colloquium Series 12/2/19
43. **Annual Biomedical Conference for Minority Students (ABRCMS)**, California 11/16/19
42. **University of Texas at Dallas**, School of Behavioral and Brain Sciences 11/7/19
41. **Lasalle University**, Department of Biology 10/1/19
40. **University of Illinois at Chicago**, Integrative Neuroscience Seminar Series 9/26/19
39. **Fox Chase Cancer Center**, Molecular Therapeutics Department 6/20/19
38. **University of Pennsylvania**, SUIP Faculty Research Seminar 6/12/19
37. **University of Maryland Baltimore County**, Dpts. of Biology; Chemistry/Biochemistry 5/8/19
36. **University of Washington**, Neuroscience Seminar Series 3/14/19
35. **North Carolina A&T State University**, Department of Biology 1/23/19
34. **University of California Santa Cruz**, Dpt. Molecular, Cell, Developmental Biology 1/14/19
33. **St. Joseph's University**, Department of Biology 11/14/18
32. **University of Pennsylvania**, Undergraduate Neuroscience Honors Society 12/4/18
31. **University of Pennsylvania**, Center for Neurobiology and Behavior Seminar 10/26/18
30. **Mid-Atlantic Pharmacology Society Meeting**, Philadelphia, PA 9/27/18
29. **University of Pennsylvania**, mindCORE Seminar Series 9/4/18
28. **Gordon Conference**, Molecular and Cellular Neurobiology, Hong Kong 7/3/18
27. **National Institutes of Health**, Pain Consortium Symposium 5/31/18
26. **Rockefeller University**, Sense to Synapse Conference 5/12/18
25. **Vanderbilt University School of Medicine**, Emerging Scholars Lecture 5/3/18
24. **Meharry Medical College**, Department of Biochemistry and Cancer Biology 5/2/18
23. **Bryn Mawr College**, Chemistry Colloquia Series 4/16/18
22. **Duke University**, Department of Pharmacology 2/20/18
21. **New York University**, Department of Oral Surgery 2/7/18
20. **University of Pennsylvania**, Department of Biology 1/11/18

19. University of Pennsylvania , Department of Oral Surgery & Pharmacology	12/14/17
18. Johns Hopkins University , Department of Pharmacology & Molecular Sciences	12/12/17
17. Temple University , Center for Substance Abuse Research	12/7/17
16. Society for Neuroscience Meeting , Washington D.C.	11/11/17
15. Haverford College , Department of Biology	4/3/17
14. Syracuse University , Department of Biology	3/10/17
13. University of Pennsylvania , SACNAS Chapter Science Café Seminar Series	2/16/17
12. Rutgers University Camden , Department of Biology	1/19/17
11. Swarthmore College , Department of Biology	11/30/16
10. Mount Holyoke College , Department of Biological Sciences	11/8/16
9. University of Pennsylvania Dental School , Levy Series	10/27/16
8. Bucknell University , Department of Biology	10/3/16
7. Rutgers University Camden , Department of Biology	3/10/16
6. Virginia Tech University , Department of Biochemistry	1/13/16
5. 2nd International Symposium on Olfaction , Paris	9/19/13
4. University of Pennsylvania , Genetics Symposium	11/28/12
3. University of Pennsylvania , Cell and Molecular Biology Annual Symposium	10/11/11
2. International <i>C.elegans</i> Meeting , Los Angeles, CA	6/26/11
1. Society for Dev. Bio. Meeting , Phila., PA, <u>award for best graduate student talk</u>	6/3/11

Podcast Interviews

- Pain Research Forum Pain Beat Podcast: “Measuring Pain Behavior” 4/2/21
- Ignorance Podcast, Nautilus Magazine 2/24/21
- Carry the One Radio: “Pain the Invisible Disease, Treatment, and Research” 11/2/20
- Penn Science Policy and Diplomacy Group Podcast 2/18/20
- HBCU Digest Radio : “HBCU Voices of STEM Excellence” 7/26/18

Media Coverage and Feature Stories

- Penn’s MindCORE, “*Beyond the CV: Stories from Faculty.*” 2021. (interview on YouTube)
- Nature Biotechnology, 2021. Highlighted during Black History Month.
- Rita Allen Foundation, 2020. “*Announcing the 2020 Rita Allen Foundation Award in Pain Scholars*”
- Cell Press, 2020. “*100 inspiring black scientists in America.*”
- Katherine Baillie, 2019. “*The Science of Sensations*” Penn Today.
- Stephanie Stahl, 2018. “*From Central High School to His Own Lab, Penn Scientist Focused on Finding Better Treatments for Pain.*” **CBS Local News TV Special.**
- Marla Vacek Broadfoot, 2018. “*How early STEM program and mentors paved the way for a career in science.*” Burroughs Wellcome Fund Feature Article.
- Gregory Richter, 2018. “*PennPORT (al) into a Thriving Science Career.*” Penn Medicine News.

University Service

University of Pennsylvania

2020–2021 Seminar Committee, Biology Department

2020 Ad hoc Faculty Recruitment Committee, Biology Department

- 2020 Recruitment Day Chair for Ph.D. admissions weekend, Biology Department
- 2020–2021 Member, Dean’s Council on Diversity
- 2020–2021 Seminar Committee, Department of Neuroscience
- 2020–2021 Faculty Advisory Board, E.E. Just Biomedical Society for underrepresented minority PhD students in Biomedical Graduate Studies
- 2019–2020 Member, Dean’s Committee for “Mapping the Mind”
- 2018–2020 Co-Director, Mentoring Circle Program for underrepresented minority students
- 2007 Outreach Chair, E.E. Just Biomedical Society

Professional Service

Editorial Boards: Cell Reports (2020), eLife (2020), Neurobiology of Pain (2021)

Conference Organization: Session Chair: Keystone Symposium on Pain (2020), Session Chair: US Association for the Study of Pain Annual Meeting; 2 sessions (2020)

Study Section/Grant Reviewer: Chan Zuckerberg Biohub Investigators (2021), Burroughs Wellcome Fund Graduate Diversity Enrichment Program (2019), Department of Defense Neurophysiology of Cognition (2020), NIH/NINDS F99/K00 Blueprint D-SPAN Award (2020)

Journal Reviewer: Cell, Cell Reports, eLife, eNeuro, Journal of Neuroscience, Methods in Cell Biology, Molecular Pain, Nature Communications, Nature Reviews Neuroscience, Neuroscience, Neuroscience Letters, Pain, PLoS One, Science Advances, Star Protocols

Outreach

- 2021 Panelist, “*Navigating Your Career Path*”, Brown University Dr. Samuel Nabrit Conference
- 2021 Facilitator, “*Consensus building with key stakeholders*” Society for Neuroscience, Neuroscience Scholars Program (underrepresented minority graduate students and postdocs)
- 2021 Speaker, Columbia’s Zuckerman Institute, Diversity Funding Opportunities at NIH
- 2021 Black-in-Stem conversation with Rutgers Camden MARC students
- 2020 Speaker, Harvard Medical School Black Postdoctoral Association
- 2020 Speaker, Monell Chemical Senses Center, Diversity Journal Club
- 2020 Feature Interview for middle school book project “*Healthy NewsWorks*”
- 2020 Panelist, Postdoc Association (BPP) event, “Pursuing an Academic Career”
- 2019 Panelist, mindCORE event, “*Navigating the academic job market*”
- 2019 Abdus-Saboor lab Science Day for 25 elementary students in West Philly
- 2019 Panelist, Center for Teaching and Learning “*Workshop on Inclusive Teaching*”
- 2018 Panelist, Lasalle University STEM underrepresented minority day
- 2018 Speaker, SMASH STEM program for high school minority students
- 2018 Panelist, Society for Neuroscience Meeting, NIH Blueprint Diversity F99/K00 fellows
- 2018 Panelist, Inaugural PennView Postdoc Diversity Initiative
- 2017 Facilitator, Penn | Post-bac & Summer URM Intern students, “*Writing Your 1st Manuscript*”
- 2017 Panelist, Career Panel, Penn Cell and Molecular Biology PhD Program Symposium
- 2017 Facilitator, Penn | HHMI BioInteractive Teaching Workshop for Faculty
- 2017 Invited Lecturer, “*Neuroscience Symposium*” The Baldwin School, Bryn Mawr, PA
- 2016 Panelist, Diversity in STEM workshop, Penn Center for Teaching and Learning
- 2016 Program Organizer for URM interns at Penn, “*Graduate School Admissions Process*”
- 2016 Program Organizer for workshop on obtaining NSF grants as new faculty

- 2016 Career Development Panelist, "*Penn Honors Diversity Symposium*"
- 2016 Science Fair poster judge, Lincoln University & Penn
- 2016 Invited Lecture, "*Optogenetics and Pain*" Friends Central School, Wynnewood, PA
- 2016 Invited Lecture, Penn Undergraduate Neuroscience Society, "*Pain in the Brain*"
- 2012 Poster Judge at Diversity session, American Society for Cell Biology Annual Meeting
- 2011 Panelist, McNair Scholars forum for undergraduate seniors Penn
- 2008 Panelist/Lab Tour Host, Upward Bound program for high school students.