

# Tracy A. Larson, Ph.D.

Department of Biology  
University of Virginia  
Physical Life Science Building, 304  
Box 400328  
Charlottesville, VA 22904-4328

larson.tracy@virginia.edu  
[www.tracyalarson.org](http://www.tracyalarson.org)  
(434) 297-7946 O  
(434) 243-5315 F  
(206) 437-0740 C

## Education

---

2014 Ph.D. Biology, University of Washington  
2014 Certificate of Law, International Bioethics, Social Justice and Health, University of Washington, School of Law  
2006 B.S. Molecular, Cellular and Developmental Biology, University of Washington  
2006 B.S. Neurobiology, University of Washington  
2001-2003 Post-Secondary Options Program, Biology, Ohio University  
2003 High School Diploma, Amanda Clearcreek High School, Amanda, Ohio

## Research Experience and Appointments

---

2023 (current) Associate Graduate Faculty, Graduate Faculty at Minnesota State University, Mankato  
2022 (current) Assistant Professor of Biology, University of Virginia  
2019-2021 Assistant Professor of Biology, General Faculty, Research Track, University of Virginia  
2017-2019 Research Associate, Department of Biology, University of Virginia  
2016-2017 Research Scientist III, Department of Biology, University of Washington  
2015-2016 Post-Doctoral Fellow, Basic Science Division, Fred Hutchinson Cancer Research Center  
PI: Katie Peichel  
Evolution of adult neurogenesis and behavior in stickleback fish  
2008-2014 Ph.D. Thesis, University of Washington, Department of Biology  
Major Professor: Eliot Brenowitz  
Adult neurogenesis in songbirds, from cellular and molecular mechanisms to behavior  
2008 Research Engineer, University of Washington, Department of Biology  
PI: Horacio de la Iglesia  
Role of circadian rhythms in mood disorders  
2007-2008 Research Engineer, University of Washington, Department of Biology  
PI: David Parichy  
Post-embryonic neural crest lineages in zebrafish (glia, bone)  
2004-2006 Undergraduate Researcher, University of Washington, Department of Biology  
Mentor: Horacio de la Iglesia  
Cloning and expression of circadian clock gene homologs in crustaceans

## Fellowships and Grants

---

### **Awarded**

- 2023 Maximizing Investigators' Research Award (MIRA R35), NIGMS (\$1,250,000 9/23 to 8/28; 1R35GM150562)
- 2020-2021 Program Grant, Directors of Diversity and Inclusion, University of Virginia (\$10,000)
- 2015-2016 NIH NRSA (T32 DC005361), Auditory Neuroscience Training Grant, University of Washington (\$42,000)
- 2014 Washington Research Foundation Hall Fellowship, University of Washington (\$10,600+tuition)
- 2010-2013 NIH NRSA (T32 GM007270), Cell and Molecular Biology Training Grant, University of Washington (\$72,200+tuition)
- 2009-2010 NIH NRSA (T32 DC005361), Auditory Neuroscience Training Grant, University of Washington (\$18,600+tuition)
- 2005 Arts and Sciences Research Fellowship, University of Washington (\$1,500)
- 2004-2005 Mary Gates Research Endowment, Mary Gates Foundation (\$4,500)
- 2004 Howard Hughes Research Fellowship, Howard Hughes Medical Institute (\$3,000)
- 2004 Mary Gates Research Endowment, Mary Gates Foundation (\$2,500)

### **Submitted**

- 2024 (planned) Full proposal, Allen Discovery Grant, Allen Brain Institute, Discovery Center (Collaborator; five years, up to \$10,000,000; 10 invites of >500 applications)
- 2023 Letter of Intent, Allen Discovery Grant, Allen Brain Institute, Discovery Center (Collaborator; five years, up to \$10,000,000), invited to submit full proposal
- 2023 Klingenstein-Simons Fellowship Awards in Neuroscience, Klingenstein Philanthropies (three years, \$300,000)
- 2023 Short Proposal (Internal), Packard Fellowship for Science and Engineering, The David & Lucile Packard Foundation (five years, \$875,000)
- 2022 (funded) Maximizing Investigators' Research Award (MIRA, R35), NIGMS (five years, \$1,250,000; score: 20)
- 2020 Letter of Intent, Research Grant, Whitehall Foundation, Inc. (three year grant for up to \$300,000)
- 2019 Letter of Intent, Packard Fellowship for Science and Engineering, The David & Lucile Packard Foundation (application retracted due to inadequate job title [Research Assistant Professor])
- 2018 Letter of Intent, Research Grant, Whitehall Foundation, Inc. (application retracted due to inadequate job title [Research Assistant])

## Publications

---

### **Peer Reviewed Articles**

- Larson TA\*, Tokareva Y†, Meritt Cole M†, Brenowitz EA. (2020) Inflammation induced by natural neuronal death and LPS regulates neural progenitor cell proliferation in the healthy adult brain. *eNeuro* doi:10.1523/ENEURO.0023-20.2020
- Lewis VM, Saunders LM, Larson TA, Bain EJ, Sturiale SL, Gur D, Chowdhury S, Flynn JD, Allen MC, Deheyn DD, Lee JC, Simon JA, Lippincott-Schwartz J, Raible DW, Parichy DM (2019) Fate plasticity and reprogramming in genetically distinct populations of *Danio leucophores*. *Proc. Natl Acad. Sci. USA* doi:pnas.1901021116.
- Larson TA\*, Thatra NM,† Hou D†, Hu RA†, Brenowitz EA. (2018) Seasonal changes in neuronal turnover in a forebrain nucleus in adult songbirds. *J Comparative Neurology* 1–13. doi: 10.1002/cne.24552

- Ben Hamo M, Larson T, Duge L, Sikkema C, Wilkinson CW, de la Iglesia H, González M. (2016) Circadian forced desynchrony of the master clock leads to phenotypic manifestation of depression in rats. *eNeuro* doi:10.1523/ENEURO.0237-16.2016
- Larson TA, Lent KL, Bamler TK, MacDonald JW, Wood WE, Caras ML, Thatra NM†, Budzillo A, Perkel DJ, Brenowitz EA (2015) Network analysis of microRNA and mRNA dynamics in a highly plastic sensorimotor neural circuit. *BMC Genomics* 16: 905 doi:10.1186/s12864-015-2175-z
- Larson TA, Thatra NM†, Lee B†, Brenowitz EA. (2014) Reactive neurogenesis in response to naturally occurring apoptosis in an adult brain. *The Journal of Neuroscience* 34(39): 13066-76 doi:10.1523/JNEUROSCI.3316-13.2014
- Larson TA, Wang TW, Gale SD, Miller KE, Thatra NM†, Caras ML, Perkel DJ, Brenowitz EA (2013) Postsynaptic neural activity regulates neuronal addition in the adult avian song control system. *Proceedings of the National Academy of Sciences USA* 110 (41): 16640-44 doi:10.1073/pnas.1310237110
- Larson TA, Gordon TN, Lau EM, Parichy DM. (2010) Defective adult oligodendrocyte and Schwann cell development, pigment pattern, and craniofacial morphology in puma mutant zebrafish having an alpha tubulin mutation. *Developmental Biology* 346(2): 296-309 doi:10.1016/j.ydbio.2010.07.035

### **Invited Articles, Book Chapters, and Reports**

- Larson TA\*. Cell death in the avian brain with emphasis on the development and plasticity of the song control system. (2020) "Cell Death Regulation In Health And Disease." *International Review of Cell and Molecular Biology*. 352:83-113 doi:10.1016/bs.ircmb.2020.01.001
- Larson TA\*. Sex steroids, adult neurogenesis, and inflammation in CNS homeostasis, degeneration, and repair. (2018) *Frontiers of Endocrinology*. 9:205 doi:10.3389/fendo.2018.00205
- Brenowitz EA & Larson TA. (2015) Neurogenesis in the Adult Avian Song Control System. *Cold Spring Harbor Perspectives in Biology* 7(6):a019000. Advance for "Neurogenesis." 2nd edition. Gage, Kemperman, and Song. Cold Spring Harbor Press. doi:10.1101/cshperspect.a019000

### **Abstracts, Supplements, and Commentaries**

- Larson TA\*, Tokareva Y†, Meritt Cole M†, Brenowitz EA. (2020) Development of a novel model: Using songbirds to elucidate the pro-neurogenic role of microglia in healthy and natural neurodegenerative states. *Journal of Immunology*. 204 (1 Supplement): 159.38-159.38.

† Mentored student

\*Corresponding author

### **Manuscripts**

---

- Sayyad MR, Aman AJ, Parichy DM, Larson TA\*. Whole mount and section in situ hybridization for post-embryonic zebrafish. In prep for *Zebrafish*.
- Machado, D†, Hou D†, Brenowitz EA, Larson TA\*. Daily rhythmic changes in singing behavior of Gambel's white-crowned sparrow. In prep for *Animal Behaviour*
- Bujor M†, Wolkoff M, McCluskey B, Parichy DM, Larson TA\*. From annotation of the genome to single cell RNA sequencing: Uncovering seasonal plasticity in cell lineage and expression in a song nucleus of the white-crowned sparrow. In prep for *Plos Genetics*

\* Corresponding author

† Mentored student

## Professional Development

---

2023 (current) Communications Fellow, Office of Vice President for Research, UVA  
2022-2023 Member, DEI Collaborative Learning Community, Office of the Dean,  
College and Graduate School of Arts and Sciences, UVA  
2022 Faculty Success Program, National Center for Faculty Development and  
Diversity

## Interviews, Consulting, and Press Coverage

---

### Interviews

2024 UVA Undergraduate Student Opportunities in Academic Research (USOAR)  
Program, Panel discussion on career planning and trajectory  
2022 E Svoboda, *Nature*, [Brain-cell growth keeps mood disorders at bay](#)

### Consulting

2023 Invited Participant, The Paul G. Allen Frontiers Group, Panel discussion on the  
topic of “Neurobiology of Changing Environments” (compensation declined)

### Highlighted Press Coverage of Works

A Oza, *Nature*, News. (2023) [This sparrow massively expands part of its brain in preparation for mating](#) <https://doi.org/10.1038/d41586-023-03746-4>  
S Hines, *University of Washington News and Information*. (2014) [Dying brain cells cue new brain cells to grow in songbird](#)  
C Griffith, *Science World Report*. (2014) [New brain cells grown in songbirds each year: Neuron growth investigated](#)  
K Nayan, *Counsel & Heal*. (2014) [Dying brain cells cue new brain cells to grow in songbird, study finds](#)  
ians, *ZeeNews*, India. (2014) [Dying cells send signal to stimulate new cells in birds](#)

## Honors and Awards

---

### Personal

2022 Cosponsored participant, Faculty Success Program, National Center for Faculty  
Development and Diversity (sponsored by UVA Office of the Provost and the  
Division for Diversity, Equity, and Inclusion)  
2015 Finalist, Council of Graduate Schools’ Distinguished Dissertation Award, National  
Competition, Biological & Life Sciences Category (one of eight finalists)  
2015 University of Washington’s Nominee, Council of Graduate Schools’ Distinguished  
Dissertation Award, National Competition, Biological & Life Sciences Category  
2015 Distinguished Dissertation Award for Biological Sciences, University of  
Washington (1 awarded per year among all UW Ph.D. recipients)  
2014 Undergraduate Research Mentor Award, University of Washington (5-6 awarded  
each year among all UW faculty, staff, and students)  
2013 Travel Award, Department of Biology, University of Washington (\$350)  
2012 Travel Award, Department of Biology, University of Washington (\$400)  
2009 Honorable Mention, NSF Graduate Research Fellowship Program

### Students and Trainees

2024	Harrison Research Award, UVA (Chambers, \$5,000); Harrison Research Award (Majii, \$5,000)
2023	John T. Casteen Diversity-Equity-Inclusion Leadership Award, UVA (Demir)
2023	College Council Grant, UVA (Chung, \$1470); Harrison Research Award, UVA (Perez, \$5000); Harrison Research Award, UVA (Chung, \$5,000)
2022	Harrison Research Award, UVA (Scalzi, \$5000); Harrison Research Award, UVA (declined, Boyd, \$5,000)
2021	Schwager Summer Research Scholarship, UVA (Luscko, \$5,000); NESC Undergraduate Summer Research Fellowship, UVA (Scalzi, \$5,000)
2010-2016	Mary Gates Research Fellowship, UW (Shapiro, Thatra, Thatra, \$3,500 each); Sargent Award (Thatra); Undergraduate Research Conference Travel Award (Hu); Washington State Science and Engineering Fair, First Place Senior Division (Orji), WA NASA Space Grant Consortium Recipient (Orji), Wolfram Research Inc. Mathematica Software Award (Orji); ACT-SO Competition, First Place Health and Medicine Category, National Competition Qualifier (Orji)

## **Seminars, Symposia, and Conferences**

---

### ***Invited Seminars and Symposia***

2024 (planned)	Department of Biological Sciences, University of Delaware
2023 (canceled, positive for Covid)	Biennial Conference of the North American Society for Comparative Endocrinology NASCE, Queretaro, Mexico, Emerging topics in comparative endocrinology
2023	Department of Biological Sciences, Minnesota State University, Mankato, Departmental Seminar
2022	Department of Psychology, University of Virginia, VA, Systems and Behavioral Neuroscience Seminar
2022	Department of Biology, George Mason University, Manassas VA
2022	4th Genomes of Animals and Plants Conference (GAP2.2), virtual
2021	Department of Physics, University of Virginia, Charlottesville, VA, High Energy Physics Seminar
2021	Department of Biology, University of Virginia, Charlottesville, VA
2016	Department of Biology, University of Virginia, Charlottesville, VA
2015	Department of Integrative Biology, University of Texas - Austin
2014	Annual University of Washington - South Lake Union Research Symposium, Seattle WA

### ***Chairing Conference Sessions and Workshops***

2023	Chair, 'Neuroethology II', Society of Integrative and Comparative Biology Annual Meeting
------	--

### ***Oral Presentations***

2023	Society of Integrative and Comparative Biology Annual Meeting, 'Astrocyte Plasticity in a Sensorimotor Nucleus: Role in Future Plasticity'
2016	Junior Scientist Workshop on 'Genetic and Neurobiological Basis for Evolution of Behavior,' Janelia Farm, "From evolution to behavior: adult neurogenesis in the threespine stickleback"
2014	Graduate Student Symposium, University of Washington, "Natural reactive neurogenesis in the avian brain: a powerful model for regenerative neurogenesis"
2011	Graduate Student Symposium, University of Washington, "Efferent neural activity regulates adult neuronal recruitment"

- 2008 Graduate Student Symposium, University of Washington, “Desynchronized rat as a model for mood disorders”
- 2005 Mary Gates Undergraduate Research Symposium, “Crustacean circadian rhythmicity”
- 2004 Friday Harbor Research Apprentice Symposium, “In search of clock neurons in decapod crustaceans”

**Poster Presentations**

- 2022 Society for Neuroscience Annual Meeting, San Diego CA
- 2020 (canceled) American Association of Immunologists Annual Meeting, Honolulu, HI
- 2017 Society for Neuroscience Annual Meeting, Washington D.C.
- 2016 Junior Scientist Workshop on 'Genetic and Neurobiological Basis for Evolution of Behavior,' Janelia Research Campus
- 2015 International Conference on Stickleback Behavior and Evolution, Stony Brook NY
- 2013 Society for Neuroscience Annual Meeting, San Diego CA
- 2012 Society for Developmental Biology Northwest Meeting, Friday Harbor WA,
- 2012 Society for Neuroscience Annual Meeting, New Orleans LA
- 2011 Society for Neuroscience Annual Meeting, Washington DC
- 2008 Zebrafish Development and Genetics, Madison WI
- 2006 Society for Neuroscience Annual Meeting, Atlanta GA
- 2006 Mary Gates Undergraduate Research Symposium, Seattle WA
- 2006 Woodland Park Zoo Research Meeting, Seattle WA; *awarded - Best Poster*

**Attended**

- 2019 From Behavior to Brain: The Neuroethological Way to Neuroscience, Society for Neuroscience, Virtual Conference
- 2011 Clinical Neuroscience and Society Conference, Philadelphia PA
- 2011 Annual Meeting of the International Neuroethics Society, Washington DC
- 2010 Annual Meeting of the Neuroethics Society, San Diego CA
- 2010 Society for Neuroscience Annual Meeting, San Diego CA
- 2009 Annual Society for Bioethics and Humanities Meeting, Washington DC

**Students and Trainees**

- 2023 Society for Neuroscience Annual Meeting, Washington DC (Tucker, Shepard, Boyd, Perez, Chung, Mullins, Scalzi, Guajardo, Cochrane, Downes)
- 2022 Annual Biological Sciences Research Symposium, University of Virginia (Scalzi, Perez, Mullins, Chung)
- 2022 Society for Neuroscience Annual Meeting, San Diego CA (Scalzi)
- 2022 Biology Undergraduate Poster Session (Boyd, Mullins, Scalzi)
- 2010 - 2017 Society for Neuroscience Annual Meeting, Washington DC (Hu); Society for Neuroscience Annual Meeting, San Diego CA (Thatra); Biology Undergraduate Research Symposium, UW (Hu, Tokareva, Hou, Cole, Thatra, Shapiro)

**Teaching Experience**

---

**Courses**

- 2023 New course in biology: Hormones and Behavior (BIOL 4599), UVA
- 2023 - 2024 Professional Skills in Life Sciences II (BIOL 8250), University of Virginia
- 2009 Teaching Assistant, Biology 418, Biological Rhythms, University of Washington
- 2009 Teaching Assistant, Biology 350, Physiology, University of Washington
- 2008 Teaching Assistant, Biology 200, Introductory Biology, University of Washington

## **Guest Lectures**

- 2022 Professional Skills for the Life Sciences I (BIOL8270), University of Virginia  
2022 Statistical Consulting at the University of Virginia (STAT7995), UVA  
2019 Habits of Highly Effective Graduate Students (BIOL8270), University of Virginia

## **Mentoring**

---

### **Laboratory**

#### Postdoctoral Fellows

2021-2023 Megan Sayyad, co-mentored with Dr. David Parichy, Biology, UVA

#### Graduate Students

- 2023 (current) Alishba Amjad, Rotation Student, Biology University of Virginia  
2023 (current) Mackenzie Yates, Rotation Student, Biology University of Virginia  
2022 Eliza Paneru, Rotation Student, Biology University of Virginia  
2021 (current) Will Tucker, Biology, University of Virginia  
2020-2022 Abril Goana Gamboa, Biology, University of Virginia  
2018-2020 Malgorzata Gazda, Visiting Scholar from CIBIO, Universidade do Porto  
2014 Kali Esancy, Rotation Student, Brenowitz Lab, University of Washington  
2013 Lisa Voelker, Rotation Student, Brenowitz Lab, University of Washington  
2012 Eric Thomas, Rotation Student, Brenowitz Lab, University of Washington  
2008 Fabio Everton Maciel, Visiting Scholar, Universidade Federal de Rio Grande

#### Undergraduate Students

- 2023 (current) Mackenzie Schultheis, University of Virginia  
2023 (current) Natalie Parra, University of Virginia  
2023 (current) Paige Chambers, University of Virginia  
2023 (current) Anya Maji, University of Virginia  
2022 (current) Marisa Guajardo, University of Virginia  
Undergraduate Neuroscience Program  
2022 (current) Mahati Agumamidi, University of Virginia  
2022 (current) Susanna Shepard, University of Virginia  
2022 (current) Alex Perez, University of Virginia  
Undergraduate Neuroscience Program  
2022 (current) Grace Kim, University of Virginia  
2022-2023 Maryn Gerrity, University of Virginia  
2022-2023 Anish Kaylan, Neuroscience, University of Virginia  
Undergraduate Neuroscience Program  
2021-2023 Daniella Machado, University of Virginia  
*Publications: 1 in prep*  
2021-2023 Nina Cummings, Biology, University of Virginia  
2021-2023 Sophia Sobrado, University of Virginia  
Undergraduate Neuroscience Program  
2021-2022 David Lovett, University of Virginia  
REU: Blandy Experimental Farm  
2021 Mariel Etchegaray, Concordia University of Texas (visiting summer 2021)  
2021 (current) Kathryn Chung, University of Virginia  
Undergraduate Neuroscience Program  
Immunology Internship, GlaxoSmithKline  
2021-2023 Rylan Pearsall, Cognitive Sciences, University of Virginia  
2021-2022 Sam Fairman, University of Virginia  
2021-2022 Margaret Bujor, Computer Science, University of Virginia  
2020 (current) Colleen Mullins, Echol's Scholar, University of Virginia

Undergraduate Neuroscience Program  
 REU: Mountain Lake Biological Station  
 2020-2023 John Boyd, Echol's Scholar, University of Virginia  
 Undergraduate Neuroscience Program  
 2020-2023 Elizabeth Scalzi, University of Virginia  
 Undergraduate Neuroscience Program  
 2020 Sreya Kunapuli, Echol's Scholar, University of Virginia  
 2019-2021 Caroline Luscko, Psychology, University of Virginia  
 2017-2019 Margo Downes, Biology, University of Virginia  
 2018-2019 Alice Clair, University of Virginia  
 2018-2019 Allyssa Cochrane, University of Virginia  
 2017-2019 Yasmeen Refai, Echol's Scholar, University of Virginia  
 2017-2018 Avani Casey, University of Virginia  
 2016-2017 Avery Pong, University of Washington  
 2016-2017 Rachael Hu, University of Washington  
*Publications: 1*  
 2016-2017 Brian Setijono, University of Washington  
 2016-2017 Yekaterina 'Kate' Tokareva, University of Washington  
*Publications: 1*  
 2015-2017 Yuchen 'Kristine' Sun, University of Washington  
 2014-2015 Marianne Cole, University of Washington  
*Publications: 1*  
 2013-2015 Darren Hou, University of Washington  
*Publications : 1 and 1 in prep*  
 2011-2012 Brian Lee, Johns Hopkins University  
*Publications: 1*  
 2010-2014 Nivretta Thatra, University of Washington  
 Undergraduate Neuroscience Program  
*Publications: 4*  
 2010-2011 Matt Shapiro, University of Washington

#### High School Students

2015-2016 Favor Orji, Technology Access Foundation Academy, WA  
 Designing and conducting research on role of thyroid hormone in neural development and adult neurogenesis  
*Science Fairs: TAF Science Fair, First Place Senior Division, First Place Overall; Central Sound Regional Science Fair, Third Place Medicine and Health Category; Washington State Science and Engineering Fair, First Place Senior Division, WA NASA Space Grant Consortium Recipient, Wolfram Research Inc. Mathematica Software Award; ACT-SO Competition, First Place Health and Medicine Category, National Competition Qualifier*  
 2012-2013 Darren Hou, Interlake High School, WA  
 Behavioral analyses  
 2010-2011 Hamdi Malin, Cleveland High School, WA  
 College applications and financial aid  
 2009-2010 Nivretta Thatra, Bellevue High School, WA  
 Designing and conducting research in neurobiology and behavior  
 2008-2010 Tracy Wanjiku, Des Moines High School, WA  
 College applications and financial aid

#### ***Thesis Committees***

2021 (current) Taylor Nystrom, Committee Member, Department of Biology, UVA



### ***Mentoring Beyond the Lab***

2023 (current) Niveditha Sankar, Master's student at Minnesota State University, Mankato  
2023 (current) Olaoluwa Enigbokan, Master's student at Minnesota State University, Mankato  
2021 (current) Zehra Demir, Mentoring Institute, Office of Graduate & Postdoctoral Affairs  
Diversity Program, UVA

### **Membership and Service**

---

#### ***Professional Membership***

2023 (current) Virginia Academy of Science  
2019 (current) Society for Integrative and Comparative Biology  
2019 (current) American Association of Immunologists  
2010 (current) Society for Neuroscience, Member  
2009-2012 International Neuroethics Society, Member

#### ***Professional Service***

2023 Reviewer for grants: Kavli Foundation, Neurobiology and Changing Ecosystems  
(Full proposals)  
2023 Reviewer for journals: *PlosOne*  
2022-2023 Guest Associate Editor, *Frontiers of Endocrinology*, Topic: "The role of seasonal  
hormones in plasticity of morphology and natural behavior: an integrative  
perspective using non-traditional model systems"  
2021 Reviewer for journals: *Zoology*; *PlosOne*; *Integrative and Comparative Biology*  
2020 Reviewer for journals: *Zoology*  
2020 External reviewer, NSERC Discovery Grants Program  
2018-2019 Reviewer for journals: *Brain, Behavior, and Immunity*; *Neuroendocrinology*  
2017 Ad hoc reviewer, NSF CAREER Program  
2015-2017 Reviewer for journals: *Developmental Neurobiology*; *Evolutionary Ecology*  
*Research*; *Molecular Ecology*; *eLIFE*

#### ***Academic Service***

2024 (to 2028) Senator, Biology Seat, College of Arts and Sciences Faculty Senate  
2024 Application Reviewer, The G. Harold and Leila Y. Mathers Foundation Grants,  
UVA  
2023 Application Reviewer; Harrison Undergraduate Research Award, Double Hoo  
Research Award, The G. Harold and Leila Y. Mathers Foundation Grants; UVA  
2022 (current) Chair, Community Committee, Department of Biology, UVA  
2022-2023 Member, Diversity, Equity, and Inclusion Committee, Department of Biology, UVA  
2022 Application Reviewer, Summer Research Internship Program, School of  
Medicine, UVA  
2021 (to 2024) Elected Member, Budget and Development Committee, College and Graduate  
School of Arts and Sciences, UVA  
2020-2022 Member, Community Building and Planning Committee, Department of Biology,  
UVA  
2020-2021 Website Designer, [www.boipuva.com](http://www.boipuva.com), Biology Outreach and Inclusion Program,  
Department of Biology, UVA  
2019 Co-designer and organizer, Cell Biology Art Display, Department of Biology, UVA  
2018 Organizer, Post-doc Mini Symposium, Department of Biology, UVA  
2015 Co-organizer, Human Biology Retreat, Fred Hutchinson Cancer Research Center  
2013-2014 Representative, Graduate Student Body Coordinating Committee, elected  
position, Department of Biology, UW

2012-2013 Graduate Student Representative, Faculty Appointments Committee, Department of Biology, UW

2012-2013 Organizer, Cell and Molecular Biology Training Grant Monthly Meeting, UW

2011-2014 Founder and organizer, Department of Biology Monthly Social, UW

2011-2012 Representative, Graduate Student Body Coordinating Committee, elected position, Department of Biology, UW

2009-2011 Graduate Student Representative, Graduate Program Committee, Department of Biology, UW

2009 Co-organizer, Graduate Student Symposium, Department of Biology, UW

2008-2009 Graduate Student Representative, Undergraduate Curriculum Committee, Department of Biology, UW

***Community Service and Outreach***

2021 Classroom visit, presentation on scientific method using song learning, Peabody School, Charlottesville, VA (2 hrs)

2020 Organizer and host, STEM middle school visit (>25 volunteers, >140 visitors, feedback evaluation, >40 hrs)

2018 Lab host, STEM middle school visit (8 hrs)

2016 Co-organizer, Biotechnology Summer Camp for high school students, in partnership with Shoreline Community College (>20 hrs)

2011, 2013, 2014, 2016 Brain Awareness exhibitor, Brain Awareness Week, Seattle, WA (>20 hrs)

2008-2011 High school student mentor, Making Connections Program, Women's Center, UW (>100 hrs)

2005-2007 Wildlife Care Aid, Progressive Animal Welfare Society, Lynnwood, WA (>500 hrs)

*last updated: November 9, 2023*