

# Medha M. Pathak, Ph.D.

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## EDUCATION

- University of California, Berkeley** - Berkeley, California May 2006  
Ph.D., Biophysics
- National Centre for Biological Sciences** - Bangalore, India December 2000  
M.Sc., Life Sciences (Neuroscience)
- St. Xavier's College** - Ahmedabad, India July 1996  
B.Sc. Biochemistry & Chemistry

## RESEARCH POSITIONS

- University of California, Irvine** - Irvine, California June 2023 – Present  
Associate Professor, Department of Physiology & Biophysics  
Joint appointment in the Department of Biomedical Engineering April 2019 – Present
- Research area: Mechanical forces in development and repair at the molecular, cellular and organismal level
- University of California, Irvine** - Irvine, California June 2016 – June 2023  
Assistant Professor, Department of Physiology & Biophysics
- Research area: Mechanical forces in development and repair at the molecular, cellular and organismal level
- University of California, Irvine** - Irvine, California April 2015 – May 2016  
Assistant Researcher
- Research area: Piezo1 in human neural stem cell mechano-regulation
- University of California, Irvine** - Irvine, California January 2011 – March 2015  
Associate Specialist
- Advisors: Francesco Tombola and Lisa Flanagan
  - Project: Physiology and biophysics of mechanically-gated and voltage-gated ion channels
- Harvard Medical School** - Boston, Massachusetts December 2006 – December 2010  
Postdoctoral Fellow
- Advisor: David P. Corey.
  - Project: Mapping components of the inner ear hair cell transduction machinery
- University of California, Berkeley** - Berkeley, California June 2006 – September 2006  
Postdoctoral Fellow August 2000 – May 2006  
Graduate student
- Advisor: Ehud Y. Isacoff
  - Thesis: Watching an ion channel at work: fluorescence measurements of ion channel dynamics
- National Centre for Biological Sciences** - Bangalore, India August 1996 – July 2000
- Advisor: Upinder S. Bhalla
  - Master's thesis: Development of a fiber-optic technique for fluorescence recordings

**Madurai Kamraj University** - Madurai, India

May – June 1996

- Advisor: K. Veluthambi
- Summer research project: Restriction mapping and subcloning of DNA B of Vigna mungo yellow mosaic virus

**St. Xavier's College**, Ahmedabad, India

June 1995 – May 1996

- Advisor: Fr. Vincent J. Braganza
- Undergraduate research project: Protoplast fusion and somatic embryogenesis of rice

## HONORS

<b>2022 Early Investigator Award</b> , Mechanobiology Subgroup, Biophysical Society	2022
<b>Honorable Mention, 2022 Outstanding Early-Career Faculty Research Award (Basic Science)</b> , UCI School of Medicine	2022
<b>Women's Leadership Academy</b> , UCI School of Medicine	2021-2022
<b>HHMI Gilliam Fellowship for Advanced Study</b> , Howard Hughes Medical Institute	2019
<b>UCI Chancellor's Award for Excellence in Undergraduate Research Mentoring</b>	2018
<b>ADVANCE Faculty Career Development Award</b> , UCI	2018
<b>Junior Faculty Networking Cohort</b> , Journal of General Physiology	2017
<b>Outstanding Paper of the year</b> for Pathak <i>et al.</i> J.Gen.Physiol.	2016
<ul style="list-style-type: none"> <li>• Cranefield award to senior author, Francesco Tombola</li> </ul>	
<b>GSK Neuroscience Discovery Award</b> , FASEB Ion Channel Regulation Conference	2015
<b>Travel award: Force-Gated Ion Channels</b> , Janelia Farms Research Campus	2015
<b>The "Cahalan Buck" Research Accomplishments Award</b> , UCI Dept. of Physiology & Biophysics	2014
<b>Helen Hay Whitney Postdoctoral Fellowship</b>	2008-2011
<b>Travel award: Force-Gated Ion Channels</b> , Janelia Farms Research Campus	2008
<b>Travel award: Young Investigator Meeting</b> , Poovar, India	2009
<b>Travel award: Biology of the Inner Ear</b> , MBL, Woods Hole, Massachusetts	2007
<b>Travel award: Gordon Conference on Mechanotransduction &amp; Gravity Signaling</b>	2005
<b>Junior Research Fellowship</b> , National Centre for Biological Sciences, Bangalore, India	1996-2000
<ul style="list-style-type: none"> <li>• 4 of 6000 applicants chosen</li> </ul>	
<b>National Summer Research Fellowship</b> , JNCASR, India	1996
<b>Siddharth Bhatt Prize: all-round performance</b> , St. Xavier's College, Ahmedabad, India	1996
<b>LUMC Clinical Laboratories Research Fellowship</b> , St. Xavier's College, Ahmedabad, India	1995-1996

## FUNDING

### Active

<b>NIH R01 (1R01NS109810), in no-cost extension</b>	9/30/2018 – 6/30/2024
Piezo1 in neural stem cell mechano-regulation	\$223,598 annual direct costs
<b>Role:</b> Principal Investigator	
<b>Administrative Supplement (R01NS109810-03S1) to NIH R01 grant</b>	7/1/2020 – 6/30/2024
Administrative supplement explores the role of Piezo1 in Alzheimer's Disease pathology.	\$250,000 total direct costs
<b>Role:</b> Principal Investigator	
<b>NSF Conference grant</b>	7/1/2018 – 6/30/2024
MechBio 2018: The Mechanome in Action.	\$37,663 total direct costs
<b>Role:</b> Principal Investigator	
<b>SCRC Hyperion Seed Grant</b>	05/01/2022 – 04/31/2024
	\$25,000 total direct costs

Phenotyping of Piezo1-knockout & vascularized human brain organoids via imaging mass cytometry

**Role:** Principal Investigator

**NIH R01 (R01AI1151301) grant**

Biophysical regulation of macrophage function

**Role:** Co-Investigator

9/1/2020 – 8/31/2025  
\$2,062,810 total direct costs

**NIH/NINDS Diversity F31**

Piezo1 Mobility Dynamics in Mechanotransduction

**Trainee:** Alan Ly

**Role:** Advisor

04/01/2022 – 3/31/2024  
\$83,148 total direct costs

**Completed**

**California Institute of Regenerative Medicine (CIRM) Training grant (EDUC4-12822) slot**

The role of Piezo1 in blood-brain-barrier formation and maintenance

**Trainee:** Dr. Elizabeth Evans

**Role:** Advisor

1/1/2022 – 12/31/2023  
\$120,000 total direct costs

**NIH/NINDS T32 Training Grant (NS082174) slot**

**Title:** Piezo1 Mechanotransduction in AD Pathophysiology

**Trainee:** Gabriella Bertaccini

**Role:** Advisor

10/1/2021 – 9/30/2023  
\$79,384.60 total direct costs

**NIH New Innovator Award (DP2AT010376)**

Building the brain: How mechanical forces shape human neural development

**Role:** Principal Investigator

**Impact score:** 10 (1<sup>st</sup> percentile)

9/30/2018 – 8/31/2023  
\$1,500,000 total direct costs

**Administrative Supplement to NIH DP2 grant**

Administrative supplement aims to use novel molecular and bioengineering tools to examine the neuromechanobiology of Alzheimer's Disease.

**Role:** Principal Investigator

9/1/2020 – 8/31/2023  
\$250,000 total direct costs

**Administrative Supplement to NIH DP2 grant**

Administrative supplement supports the development of a novel molecular tool to identify mechanoresponsive cells in human brain organoids.

**Role:** Principal Investigator

9/1/2020 – 8/31/2023  
\$100,000 total direct costs

**HHMI Gilliam Fellowship for Advanced Studies (GT11549)**

Functional dynamics of Piezo1 and Traction Forces in Tissue Repair

**Role:** Principal Investigator

9/1/2019 – 8/31/2022  
(in no-cost extension)  
\$150,000 total direct costs

**Center for Multiscale Cell Fate Opportunity Award, UCI (IOA-2105)**

Modeling PIEZO1 dynamics in keratinocyte migration during skin wound healing

**Trainee:** Jesse Holt

**Role:** Advisor

1/1/2022 – 12/31/2022  
\$10,000 total direct costs

**Center for Advanced Design & Manufacturing of Integrated Microfluidics (CADMIM)**

Low-Shear Organoid Vortex Array (LOVA)

3/1/2021 – 9/28/2022  
\$65,000 (D)

**NIH R21 grant**

Mechanical regulation of skin repair and regeneration

**Role:** Co-Investigator

7/1/2020 – 6/30/2022  
(in no-cost extension)  
\$275,000 total direct costs

<b>NIH R21 grant</b> Regulation of microglia by tissue stiffness and Piezo1 in Alzheimer's disease <b>Role:</b> Co-Investigator	7/1/2020 – 8/31/2022 (in no-cost extension) \$275,000 total direct costs
<b>Diversity supplement to NIH R01 grant</b> This diversity supplement is for the mentoring and support of graduate student Alan Ly. <b>Role:</b> Principal Investigator	4/1/2020 – 3/31/2022 \$79,399 total direct costs
<b>UCI NIAMS P30 Skin Biology Resource-based Center seed grant</b> Piezo1 dynamics in keratinocyte migration during skin wound healing <b>Major goals:</b> The goal of this project is to examine a role for Piezo1 in keratinocyte migration during skin wound healing. <b>Role:</b> MPI with PI Lowengrub	1/1/2021 – 02/28/2021 \$35,000 direct costs
<b>NIH R13 Conference grant</b> MechBio 2018: The Mechanome in Action <b>Role:</b> Principal Investigator	7/25/2018 - 7/24/2020 \$23,320 direct costs
<b>UCI Schools of Medicine and Biological Sciences Pilot Funding</b> Molecular and imaging approaches to visualize mechanotransduction in human neural development <b>Role:</b> Principal Investigator	8/1/2017 – 1/31/2019 \$50,000
<b>Sue and Bill Gross Stem Cell Research Center Seed Grant, UCI</b> Piezo1 in human neural stem cells <b>Role:</b> Principal Investigator	2/1/2017 – 7/31/2018 \$25,000
<b>Committee on Research Grant, School of Medicine Seed Grant, UCI</b> Molecular Tools for Imaging Mechanics of Human Neural Development <b>Role:</b> Principal Investigator	7/1/2017 – 6/30/2018 \$10,000
<b>NIH R21</b> Stretch-activated ion channels in human neural stem cell mechanotransduction <b>Role:</b> Co-Investigator (Tombola PI)	2/1/2015 – 1/31/2018 \$275,000
<b>UCI Center for Autism Research and Treatment</b> Membrane biophysical properties and Ca <sup>2+</sup> dynamics in stem cells and neurons from autism spectrum disorders. <b>Role:</b> Senior key personnel (Flanagan & Tombola co-PIs)	7/2013 – 2/2015 \$60,000
<b>Benefunder</b> Using Stem Cells to Repair the Damaged Brain Community Outreach Funding <b>Role:</b> Principal Investigator	2015 \$4,010
<b>SOM Faculty Research Grant</b> UCI Academic Senate Council on Research, Computing and Libraries Biophysical and functional studies on novel mammalian mechanotransduction channels <b>Role:</b> Co-Investigator (Tombola PI)	7/1/2011 – 5/31/2012 \$7,500
<b>Helen Hay Whitney Fellowship</b> Mapping components of the hair cell transduction machinery <b>Role:</b> Principal Investigator	4/1/2008 – 3/31/2011 \$138,000

## PUBLICATIONS

3182 citations from Google Scholar as of 01/2024

Profile: <http://scholar.google.com/citations?user=xY16hvgAAAAJ&hl=en>

\* denotes Equal Contribution

† denotes Co-corresponding Authors

## Submitted manuscripts

28. Bertaccini GA, Evans EL, Nourse JL, Dickinson GD, Liu G, Casanellas I, Seal S, Ly AT, Holt JR, Yan S, Hui EE, Panicker MM, Upadhyayula S, Parker I, Pathak MM. PIEZO1-HaloTag hiPSCs: Bridging Molecular,

Cellular and Tissue Imaging. (2023). *bioRxiv*, pre-print. doi: <https://doi.org/10.1101/2023.12.22.573117>. Under consideration at a journal.

27. Tyagi V\*, Ly AT\*, Bertaccini GA, Evans EL, Freitas JA, Tobias DJ†, **Pathak MM**†. Single-particle tracking and machine-learning classification reveals heterogeneous Piezo1 diffusion. *bioRxiv* 2022. Under revision at a journal. <https://www.biorxiv.org/content/10.1101/2022.09.30.510193v1>

### Published manuscripts

26. Holt JR\*, Chen J\*, Evans EL, Lowengrub JS†, **Pathak MM**†. PIEZO1 regulates leader cell formation and cellular coordination during collective keratinocyte migration. *PLoS Computational Biology*, in press.
25. Yang S, Miao X, Arnold S, Li B, Ly AT, Wang H, Wang M, **Pathak MM**, Zhao W, Cox CD, Shi Z. Membrane curvature governs the distribution of Piezo1 in live cells. *Nature Communications*. 13(7467) (2022).
24. Nourse JL, Leung V, Abuwarda H, Evans EL, Izquierdo-Ortiz E, Ly A, Truong N, Smith S, Bhavsar H, Bertaccini G, Monuki E, Panicker MM, and **Pathak MM**. (2022). Piezo1 regulates cholesterol biosynthesis to influence neural stem cell fate during brain development. *Journal of General Physiology*, 154(10): e202213084.
- *Discussed in:* Surprising discovery by UCI-led team links Piezo1 and cholesterol during brain development. <https://www.eurekalert.org/news-releases/964041>
  - Altmetric score of 167 (in the 95<sup>th</sup> percentile of articles of the same age)
23. Holt JR, Zeng W.-Z, Evans EL, Woo S.-H, Ma S, Abuwarda H, Loud M, Patapoutian A†, **Pathak MM**† (2021). Spatiotemporal dynamics of PIEZO1 localization controls keratinocyte migration during wound healing. *eLife* 2021;10:e65415.
- *Discussed in:* UCI researchers reveal critical role of mechanosensor in skin wound healing. <https://www.eurekalert.org/news-releases/934356>
22. Atcha H, Meli VS, Davis CT, Brumm KT, Anis S, Chin J, Jiang K, **Pathak MM**, Liu WF (2021). Crosstalk Between CD11b and Piezo1 Mediates Macrophage Responses to Mechanical Cues. *Frontiers in Immunology*. 12:689397. eCollection 2021.
21. Atcha H, Jairaman A, Evans EL, **Pathak MM**, Cahalan MD, & Liu WF (2021). Ion channel mediated mechanotransduction in immune cells. *Current Opinion in Solid State and Materials Science*, 25(6), 100951.
20. Jairaman A\*, Othy S\*, Dynes JL, Yeromin AV, Zavala A, Greenberg ML, Nourse JL, Holt JR, Cahalan SM, Parker I, **Pathak MM**, and Cahalan MD (2021). Piezo1 channels restrain regulatory T cell polarization but are dispensable for effector CD4+ T cell responses. *Science Advances*, 7(28).
19. Atcha H, Jairaman A, Holt JR, Meli VS, Nagalla RR, Veerasubramanian PK, Brumm KT, Lim HE, Cahalan MD, **Pathak MM**, and Liu WF (2021). Mechanically-activated ion channel Piezo1 modulates macrophage polarization and stiffness sensing. *Nature Communications*, 12(1), 1-14.
- *Discussed in:* Liu's Immune System Research to Benefit Wound Healing. *UCI Samueli School of Engineering News*. 2021, 6. <https://engineering.uci.edu/news/2021/6/liu-s-immune-system-research-benefit-wound-healing>
18. Abuwarda H, **Pathak MM** (2020). Mechanobiology of neural development. 66, 104-111. doi: <https://doi.org/10.1016/j.ceb.2020.05.012>. *Current Opinion in Cell Biology*. Special issue on Cell Dynamics.
- *Invited review article*
17. Ellefsen KL\*, Holt JR\*, Chang A\*, Nourse JL\*, Arulmoli J, Mekhdjian A, Abuwarda H, Tombola F, Flanagan LA, Dunn AR, Parker I, **Pathak MM**. (2019). Myosin-II mediated traction forces evoke localized Piezo1 Ca<sup>2+</sup> flickers. *Communications Biology*. 2, Article number: 298. A previous version of the article is available on the *bioRxiv* server.
- *Discussed in:* Pulling in new directions: Myosin 2, Piezo, and metabolism by Quintanilla MA, Hammer JA, Beach JR. <https://f1000research.com/articles/8-1486>
  - *Highlighted as an Editor's Pick article in the Communications Biology 2 Year Anniversary Collection*
16. Zhao C, Sun Q, Cao Y, **Pathak MM**, Lu X, Yang Q. (2019). Mechanosensitive Ion Channel Piezo1 Regulates Adipose Inflammation and Systemic Insulin Resistance. *Frontiers in Endocrinology*. Jun 13;10:373.
15. Nourse JL and **Pathak MM**. (2017). How Cells Channel Their Stress: Interplay Between Piezo1 and the Cytoskeleton. *Seminars in Cell and Developmental Biology*. 2017 Nov; 71:3-12.
- *Invited review article*

14. **Pathak MM\***, Tran T\*, Hong L, Morris CE, Tombola F. (2016). The Hv1 proton channel responds to mechanical stimuli. *Journal of General Physiology*. 148(5):405-418.
  - *Recognized as the outstanding paper of the year by the Society of General Physiologists, through a Cranefield award to co-author, Francesco Tombola.*
13. Arulmoli J, Wright HJ, Phan D, Sheth U, Botten GA, **Pathak MM**, Zarebinski TI, Yanni DS, Razorenova OV, Hughes CCW, Flanagan LA. (2016). Combination scaffolds of salmon fibrin, hyaluronic acid, and laminin for human neural stem cell tissue engineering. *Acta Biomaterialia*, 1;43:122-38.
12. Phan L\*, Kautz R\*, Arulmoli J, Kim I, Le DT, Shenk MA, **Pathak MM†**, Flanagan LA†, Tombola F†, Gorodetsky AA† (2016). Reflectin as a Material for Neural Stem Cell Growth. *ACS Applied Materials & Interfaces*. 13;8(1):278-84
11. Arulmoli J, **Pathak MM**, McDonnell LP, Nourse JL, Tombola F, Earthman JC, Flanagan LA. (2015) Static stretch affects neural stem cell differentiation in an extracellular matrix-dependent manner. *Scientific Reports*. 5: 8499.
10. **Pathak MM†**, Nourse JL, Tran T, Hwe J, Arulmoli J, Le DTT, Bernardis E, Flanagan LA, Tombola F†. (2014) Stretch-activated ion channel Piezo1 directs lineage choice in human neural stem cells. *Proceedings of the National Academy of Sciences*. 111(45):16148-53.
9. Kim IH, Hevezi P, Varga C, **Pathak MM**, Hong L, Ta D, Tran CT, Zlotnik A, Soltesz I, Tombola F. (2014). Evidence for functional diversity between the voltage-gated proton channel Hv1 and its closest related protein HVRP1. *PLoS One*. 9(8):e105926.
8. Nourse JL\*, Prieto JL\*, Dickson AR, Lu J, **Pathak MM**, Tombola F, Demetriou M, Lee AP, Flanagan LA. (2014). Membrane biophysics define neuron and astrocyte progenitors in the neural lineage. *Stem Cells*. 32(3):706-16.
  - *Featured Publication, Neural Cell News, September 18, 2013*
7. Hong L, **Pathak MM**, Kim IH, Ta D, Tombola F. (2013). Voltage-sensing domain of voltage-gated proton channel Hv1 shares mechanism of block with pore domains. *Neuron*. 77(2):274-87.
  - *Commentary: Kalia & Schwartz (2013). Common principles of voltage-dependent gating for Hv and Kv channels. Neuron. 77(2):214-6.*
6. **Pathak MM\***, Yarov-Yarovoy V\*, Roux B, Agarwal G, Kohout S, Barth P, Tombola F, Isacoff EY. (2007). Closing in on the resting state of the Shaker K<sup>+</sup> channel. *Neuron*. 56(1):124-40.
  - *Selected as the "Featured article" on Neuron website*
5. Tombola F, **Pathak MM**, Gorostiza P, Isacoff EY. (2007). The twisted ion-permeation pathway of a resting voltage-sensing domain. *Nature*. 445(7127):546-9.
  - *Faculty of 1000 recommendation, Exceptional (F1000 factor 3)*
4. Tombola F, **Pathak MM**, Isacoff EY. (2006). How does voltage open an ion channel? *Annual Review of Cell and Developmental Biology*. 22:23-52.
3. Tombola F, **Pathak MM**, Isacoff EY. (2005). How far will you go to sense voltage? *Neuron*. 48:719-25.
2. Tombola F, **Pathak MM**, Isacoff EY. (2005). Voltage-sensing arginines in a potassium channel permeate and occlude cation-selective pores. *Neuron*. 45:379-88.
1. **Pathak MM**, Kurtz L, Tombola F, Isacoff EY. (2005). The cooperative voltage sensor motion that gates a potassium channel. *Journal of General Physiology*. 125:57-69.
  - *Cover article*

Publication gap from 2008 to 2012 due to health problems that have since been resolved through medical and surgical treatment. Details available on request.

## PATENTS

1. **Provisional patent:** PP1 -- Pathak, M., Nourse, J. L., Flanagan, L. A., Tombola, F., Patent, "Direction of stem cell differentiation via Piezo1", 62116627, Provisional, United States, Applied 2017.
2. **Provisional patent:** Pathak, M., Nourse, J. L., Bertaccini, G., Patent, "A molecular sensor for mechanotransduction dynamics," 63339689, Provisional, United States, Applied May 2022.

**INVITED TALKS****Upcoming**

1. Biophysical Society 68<sup>th</sup> Annual Meeting, Philadelphia, PA. *Scheduled for February 2024.*
2. American Physiology Summit, Long Beach, CA. *Scheduled for April 2024.*
3. University of Santa Barbara, Santa Barbara, CA. *Scheduled for April 2024.*
4. Department of Molecular Physiology and Biophysics Seminar Series, University of Iowa. *April 2024.*
5. Columbia University, New York, NY. *Scheduled for 2024-25.*
6. Department of Cellular Biology Seminar Series, University of Georgia, Athens, GA. *Scheduled for 2024-25.*
7. Yonsei-Institute for Basic Science (IBS) Forum for physical modalities for neuroscience, Seoul, South Korea. *Scheduled for November 2021, postponed due to the Covid-19 pandemic.*
8. NIH National Heart Lung and Blood Institute (NHLBI) Seminar Series, Bethesda, MA. *Scheduled for April 2020, Postponed due to the COVID -19 pandemic.*

**Completed****International, Conference**

9. Invited talk, RECI Spanish Ion Channel Network Meeting, Spain, December 2023.
10. Invited talk, International Society of Mechanobiology, Sydney, Australia. November 2022.
11. Invited talk, European Calcium Society Meeting, Cork, Ireland. August 2022.
12. Invited talk, 9th World Congress of Biomechanics (WCB 2022), Hybrid Meeting (in person and virtual), Taipei, Taiwan. July 2022.
13. Universidad Nacional Autonoma de Mexico, Queretaro, Mexico. September 2019.
14. Force-gated Ion Channels Conference at Max Delbruck Center, Berlin, Germany. October 2018.

**International, Seminars**

15. Department seminar, Physiology Department at McGill University, Montreal, Canada. May 2022.
16. Cell Migration Seminars, International online seminar series, April 2021. YouTube link available at <https://www.youtube.com/watch?v=TwKY51d21ZM&t=2262s>.
17. Institute of Molecular and Cell Biology, Singapore. February 2016.
18. Mechanobiology Institute, Singapore. February 2016.
19. Tata Institute of Fundamental research (TIFR), Mumbai, India. October 2010.
20. National Centre for Biological Sciences, Bangalore, India, November 2006.
21. National Centre for Biological Sciences, Bangalore, India, September 2004.
22. St. Xavier's College, Ahmedabad, India, September 2004.

**National, Conference**

23. NIH High-Risk, High-Reward (HRHR) Research Symposium, NIH, Bethesda, MD. June 2023.
24. Invited talk, Biophysical Society Conference on Molecular Biophysics of Membranes, Lake Tahoe. June 2022.
25. Early Investigator Award talk, Mechanobiology Subgroup Symposium, Biophysical Society, February 2022
26. Virtual Workshop on “Mechanics in Physiological Systems: From Organelle to Organism”. Fifth in a series of ten workshops serving an important role in shaping a new 15-lab, 15-year research program at HHMI's Janelia Research Campus, called 4D Cellular Physiology. June 2021. YouTube link available at [https://youtu.be/rPm\\_Cvv7GpY?t=17363](https://youtu.be/rPm_Cvv7GpY?t=17363).
27. Invited Symposium talk, Annual meeting of the American Society for Biochemistry and Molecular Biology (ASBMB). April 2021.
28. Invited Symposium talk at Materials Research Society (MRS) Fall Meeting, Boston, MA. December 2019.
29. Didactic Workshop on Mechanobiology at Materials Research Society (MRS) Fall Meeting, Boston, MA. December 2019.
30. NIH NCCIH 20<sup>th</sup> Anniversary Symposium, NIH, Bethesda, MD. September 2019.
31. NIH workshop on “Neurocircuitry of Force-Based Manipulations”, NIH, Bethesda, MD. September 2019.
32. Annual Meeting of the Biophysical Society Meeting, Mechanobiology subgroup, Baltimore, MD. March 2019.
33. FASEB Ion Channel Regulation conference, Steamboat Springs, CO. July 2017.
34. FASEB Ion Channel Regulation conference, Big Sky, MO. July 2015.
35. Force-gated Ion Channels Meeting. HHMI Janelia Research Campus, Ashburn VA. March 2015.

**National, Seminars**

36. Biological Physics / Physical Biology (BPPB) Seminar, Virtual, January 2024.
37. Ion Channel Modulation Symposium, UC Irvine, CA, October 2023.
38. NIH High Risk, High Reward (HRHR) seminar series, Virtual, January 2023.
39. Penn Institute for Regenerative Medicine (Penn IRM) Seminar Series, University of Pennsylvania, Philadelphia, PA. October 2022.
40. Bioengineering and Physiology Seminar Series, Mayo Clinic, Rochester, MN. May 2022.
41. Department seminar, Pharmacology & Regenerative Medicine at the University of Illinois College of Medicine, Chicago, IL. May 2021.
42. Bioengineering Department Colloquium Series, University of California, Riverside, March 2021.
43. Department seminar at Brandeis University's Biology and Neuro Seminar Series, Waltham, MA. Student invitation. February 2021.
44. Department of Biomedical Engineering seminar series, Purdue University, Lafayette, IN. November 2020.
45. Biological Physics seminar at Arizona State University, Tempe, AZ. October 2020.
46. Chemistry department Colloquium at Rutgers University, Piscataway, NJ. September 2020.
47. Ion Channels Supergroup Zoominar series, UT Austin, Austin, TX. May 2020.
48. Bridges to Stem Cell Research Annual Symposium, California State University, Fullerton, CA. March 2020.
49. Nature Conference on Engineering Biology for Medicine, Duke University, Raleigh, NC. May 2019.
50. Institute of Neuroscience, University of Tennessee Health Science Center, Memphis, TN. May 2019.
51. Western University Departmental Seminar Series, Pomona, CA. April 2019.
52. UCSD Quantitative Biology Seminar Series, San Diego, CA. February 2019.
53. Advanced Imaging Methods Workshop, UC Berkeley, Berkeley, CA. January 2019.
54. Department of Genetics, Cell Biology, and Development Seminar Series, University of Minnesota, Minneapolis, MN. September 2018.
55. NSF-funded seminar series for graduate students "Oh! The places you will go...with a PhD in science", Department of University of Tennessee, Knoxville, TN. April 2018.
56. Biomechanics and Mechanobiology seminars series, Dept. of Mechanical and Aerospace Engineering, University of California at San Diego, San Diego, CA. May 2017.
57. MechBio Symposium: Putting Together the Cell Mechanome. University of California at San Diego, San Diego, CA. August 2016.
58. Department of Cell & Molecular Physiology Seminar Series, Loyola University Medical School, Chicago, IL. May 2016.
59. Harold Lecar Memorial Symposium. UC Berkeley, CA. May 2014.

### Local

60. UCI School of Medicine Dean's Research Council, Irvine, CA. September 2022.
61. Annual Symposium of the UCI Stem Cell Research Center, UC Irvine, Irvine, CA. April 2021.
62. UCI Department of Developmental and Cell Biology Seminar Series, Irvine, CA. October 2019.
63. UCI Department of Biological Chemistry Seminar Series, Irvine, CA. May 2019.
64. UCI Campus-wide Cancer Symposium, UC Irvine, Irvine, CA. May 2019.
65. UCI 3<sup>rd</sup> Annual Joint Faculty Retreat, UCI School of Medicine and School of Biological Sciences, UC Irvine, Costa Mesa, CA. April 2018.
66. UCI Center for Complex Systems Biology Annual Retreat, Los Angeles, CA. March 2018.
67. UCI 2<sup>nd</sup> Annual Joint Faculty Retreat, UCI School of Medicine and School of Biological Sciences, UC Irvine, Silverado, CA. May 2017.
68. Center for Autism Research and Treatment Monthly Seminar Series, UC Irvine, CA. January 2015.
69. Sue & Bill Gross Stem Cell Research Center Seminar series, UC Irvine, CA. Spring 2014 Seminar Series. May 2014.

### PROFESSIONAL MEMBERSHIPS

Biophysical Society	2001 – Present
Harvard Women in Neuroscience	2007 – 2010
Association for Research in Otolaryngology	2007 – 2016
Biomedical Engineering Society	2014 – 2017
American Association for the Advancement of Science	2007 – Present
International Society for Stem Cell Research	2013 – Present

American Society for Cell Biology

2014 – Present

**TEACHING EXPERIENCE**

<b>University of California, Irvine</b> - Irvine, California <b>Instructor</b> , <i>Medical Physiology and Anatomy</i> , PharmD Curriculum	2021 – Present
<b>University of California, Irvine</b> - Irvine, California <b>Instructor</b> , <i>Mathematics, Computational and Systems Biology Graduate program bootcamp</i>	2020 - Present
<b>University of California, Irvine</b> - Irvine, California <b>Guest lecturer</b> , <i>Cardiac Mechanobiology</i> , Biomedical Engineering Graduate Course	2019 – Present
<b>University of California, Irvine</b> - Irvine, California <b>Instructor</b> , <i>Topics in Physiology</i> , Physiology & Biophysics Graduate Course	2018
<b>University of California, Irvine</b> - Irvine, California <b>Instructor</b> , <i>Medical Physiology</i> , Medical Students Curriculum	2017 – Present
<b>University of California, Irvine</b> - Irvine, California <b>Instructor</b> , <i>Physiology of Ion Channels</i> Graduate Course	2012 – Present
<b>Marine Biological Laboratory</b> - Woods Hole, Massachusetts Teaching Assistant, <i>Biology of the Inner Ear</i> Summer Course	2009
<b>Harvard Medical School</b> - Boston, Massachusetts Teaching Assistant, <i>Neuroscience</i> course for Graduate and Medical students	2008
<b>University of California, Berkeley</b> - Berkeley, California Graduate Student Instructor, <i>Introduction to Neuroscience</i>	2003
Graduate Student Assistant, <i>Biophysical Neurobiology</i>	2001 – 2003
<b>National Centre for Biological Sciences</b> - Bangalore, India Teaching Assistant, <i>Basic Neurobiology</i>	1999
Teaching Assistant, <i>Hands-on Workshop on Emerging Trends in Neurophysiology</i>	1999

**COLLEAGUES MENTORED****Postdoctoral fellows**

- Ignasi Casanellas Sept 2022 – Present
- Elizabeth Evans Jan 2020 – Nov 2023
  - Recipient of a CIRM Training grant fellowship

**Medical Students**

- Truc Tran, Pennsylvania State University, Hershey, PA Summer 2017
- Dai Trang Thi Le, University of Central Florida Summer 2016
  - Recipient of a UCF research grant for work done in the lab

**Graduate Students, Thesis Mentor**

- Laura Williamson, UCI MSTP Program (co-mentored with Dr. Lisa Flanagan) 2022 – Present
- Gabriella Bertaccini, UCI Cellular & Molecular Biosciences Graduate Student 2020 – Present
  - UCI Stem Cell Translational Medicine NIH T32 training grant awardee
  - 2023 Stanley Behrens Fellow in Medicine awardee Jan 2024
- Alan Ly, UCI Cellular & Molecular Biosciences Graduate Student 2019 – Present
  - Recipient of an NIH Diversity Supplement
  - Recipient of an NIH F31 pre-doctoral fellowship
- Jesse Holt, UCI, Physiology & Biophysics 2017 – Present
  - HHMI Gilliam Diversity Fellow
  - Eugene Cota Robles Diversity Fellow

- o Recipient of a \$10,000 opportunity award from the Center for Multiscale Cell Fate at UCI, for a collaborative project with Dr. Wei-Zheng Zeng (Dr. Ardem Patapoutian's lab) in The Scripps Research Institute.
- o Recipient of a \$2,500 travel award for a new collaborative project with Dr. Rizal Hariadi's lab at Arizona State University
- o Recipient of a \$10,000 opportunity award from the Center for Multiscale Cell Fate at UCI, for a collaborative project with Jinghao Chem (Dr. John Lowengrub's lab) at Dept. of Mathematics, UCI.
- Chang Zhao, UCI Masters in Biotechnology, Co-mentored with Francesco Tombola and Lisa Flanagan 2015 – 2016
- Rylan Katz, UCI, Chem. Engg. & Material Sci. (Primary Mentor: Alon Gorodetsky) 2014 – 2016
- Janahan Arulmoli, UCI, Biomedical Engineering (Primary Mentor: Lisa Flanagan) 2013 – 2016
- Iris Kim, UCI, Physiology & Biophysics (Primary Mentor: Francesco Tombola) 2011 – 2014

### Graduate Students, Rotation Mentor

- Joshua Alcantara, UCI Cellular & Molecular Biosciences Rotation Student Fall 2022
- Jazmine Moore, UCI Inter-departmental Program in Neurosciences Rotation Student Winter 2022
- John Corrette, UCI Mathematical, Computational, and Systems Biology rotation student Spring 2021
- Cherie Lepe, UCI Inter-departmental Program in Neurosciences Rotation Student Fall 2020
- Jacob Deyell, UCI Medical Scientist Training Program Graduate Student Summer 2020
- Mulatwa Haile, UCI Inter-departmental Program in Neurosciences Rotation Student Winter 2020
- Isabel Rivera, UCI Inter-departmental Program in Neurosciences Rotation Student Winter 2019
- Nihal Eltom, UCI Inter-departmental Program in Neurosciences Rotation Student Fall 2018
- Chloe Saras Thangavelu, Cellular & Molecular Biosciences Rotation Student 2018 – 2018
- Haley Masters, UCI, Cellular & Molecular Biosciences Rotation Student 2017 – 2017
- David Au, UCI, Cellular & Molecular Biosciences Rotation Student 2017 – 2017
- Graduate student mentor for 4 Ph.D. rotation students, UC Berkeley 2002 – 2006

### Post-baccalaureate Students

- Vivian Leung 2020 – Present
- Esmeralda Izqueirido, UC Riverside 2017 – 2018
- Nhu Nguyen, UCI 2015 – 2016
- Dai Trang Thi Le, UCI (currently medical student at University of Central Florida) 2014 – 2015
- Jennifer Hwe, UCI (currently post-bac. pre-medical student at Charles Drew Univ.) 2013 – 2015

### Undergraduate Students

- Alicia Margaret Lin, UCI undergraduate research student Fall 2023 - Present
- Eden Vold, UCI undergraduate research student Fall 2022 – Win. 2023
- Naomi Ferrer, UCI undergraduate research student Fall 2022 – Present
- Michael Thanh-Phong Vu, UCI undergraduate research student Win. 2021– Sum. 2022
  - o UCI Summer Undergraduate Research Program grant awardee (2021)
- Elaine Lai, CSU Fullerton undergraduate research student Jan – Dec 2021
  - o CIRM Bridges Scholar
- Kaitlyn Manh, CSU Fullerton undergraduate research student Jan – Dec 2020
  - o CIRM Bridges Scholar
- Shayan Fini, UCI undergraduate research student Winter 2020 – Present
  - o UCI Summer Undergraduate Research Program grant awardee (2020)

- Abhishek Kulkarni, UCI undergraduate research student Fall 2019 – Spring 2020
- Samantha Smith, UCI undergraduate research student 2018 – Spring 2020
  - UCI Undergraduate Research Opportunities Program grant awardee (2020)
  - UCI Undergraduate Research Opportunities Program grant awardee (2019)
- Harsh Bhavsar, UCI undergraduate research student 2018 – Spring 2020
  - UCI Undergraduate Research Opportunities Program grant awardee (2020)
  - UCI Undergraduate Research Opportunities Program grant awardee (2019)
- Brian Nguyen, UCI undergraduate research student 2017 – 2018
- Ladelyn Boonlua, UCI undergraduate research student 2017 – 2018
  - UCI Undergraduate Research Opportunities Program grant awardee (2017)
- Nguyen Minh Truong, UCI undergraduate research student 2017 – 2018
  - UCI Undergraduate Research Opportunities Program grant awardee (2020)
  - UCI Undergraduate Research Opportunities Program grant awardee (2019)
  - UCI Undergraduate Research Opportunities Program grant awardee (2018)
- Huixun Du, UCI undergraduate research student 2017 – Spring 2019
  - UCI Summer Undergraduate Research Program grant awardee (2018)
  - UCI Undergraduate Research Opportunities Program grant awardee (2018)
- Klara Zakery, UCI undergraduate research student 2017 – 2018
- Adrija Chakrabarty, UCLA undergraduate research student Summer 2017
- Juhi Gopal, UCI undergraduate research student 2016 – 2018
- Hamid Abuwarda, UCI undergraduate research student 2016 – 2018
  - Co-author on a research article
  - Robert Ernst Prize for Excellence in Research in the Biological Sciences (2018)
  - UCI Excellence in Research awardee (2018)
  - UCI Summer Undergraduate Research Program grant awardee (2017)
  - UCI Undergraduate Research Opportunities Program grant awardee (2017)
- Colleen Chau, UCI undergraduate research student 2015 – 2016
  - UCI Summer Undergraduate Research Program grant awardee (2018)
  - UCI Undergraduate Research Opportunities Program grant awardee (2016)
- Christina Le, UCI undergraduate research student 2014 – 2016
  - UCI Undergraduate Research Opportunities Program grant awardee (2016)
  - UCI Undergraduate Research Opportunities Program grant awardee (2015)
  - UCI Summer Undergraduate Research Program grant awardee (2015)
- Julie Self, Bates College Summer 2015
- Truc Tran, UCI undergraduate research student 2011 – 2014
  - Co-author on two research articles
  - UCI Excellence in Research awardee (2012)
  - UCI Undergraduate Research Opportunities Program grant awardee (2012)
  - UCI Undergraduate Research Opportunities Program grant awardee (2013)
  - UCI Summer Undergraduate Research Program grant awardee (2013)
- Chau Tran, UCI undergraduate research student 2013 – 2014
  - Co-author on two research articles
- Heather Newman, UC Berkeley undergraduate research student 2004 – 2005
- Lisa Kurtz, UC Berkeley undergraduate research student 2001 – 2004
  - Co-author on a research article

### High School Students

- Ria Bahadur, Eastside Preparatory, Seattle, WA Jan 2021 – 2022

- Kianna Maria Dominick, Sage Hill High School, Newport Coast, CA August 2019 – Spring 2020
- Tia Desarkar, Beckman High School, Tustin, CA June 2019 – Spring 2020
- Ally Mendelhall, Tesoro High School, Las Flores, CA Summer 2017
- Adam Clements, El Toro High School, Lake Forest, CA 2016 – 2017
- Jessica Parpana, Tesoro High School, Las Flores, CA Summer 2016
- Namita Prakash, Sage Hill School, Newport Coast, CA 2015 – 2016
- Adrija Chakrabarty, Troy High School, Fullerton, CA Summer 2015
- Zac Morton, Tesoro High School, Las Flores, CA 2014 - 2015

## PROFESSIONAL ACTIVITIES

**Manuscript reviewer:** ACS Nano, Advanced Science, Cell, eLife, F1000 Reviews, Frontiers in Cell and Developmental Biology, Frontiers in Pharmacology of Ion Channels and Channelopathies, Journal of Biological Chemistry, Journal of General Physiology, Journal of Neuroinflammation, Journal of Neuroscience, Nature Communications, Plos One, PNAS, Scientific Reports.

### **Ad hoc grant reviewer**

*Deutsche Forschungsgemeinschaft* (German Research Foundation) 2023 - 2024

Chan Zuckerberg Institute, reviewer for Dynamic Imaging grants program September 2022

National Center for Complementary and Integrative Health, NIH, Neural Mechanisms of Force-Based Manipulations: High Priority Research Networks (U24), Special emphasis review panel October 2021

Intercellular Interactions (ICI) NIH study section, National Institutes of Health June 2021

HHMI Gilliam Fellowship for Advanced Study, Howard Hughes Medical Institute February 2021

Intercellular Interactions (ICI) NIH study section, National Institutes of Health February 2021

NIH-funded Center of Biomedical Research Excellence (COBRE) Pilot Proposal for the University of Delaware November 2020

NSF Directorate of Engineering grant review panel July 2020

United Kingdom Research and Innovation (UKRI), Biotechnology and Biological Sciences Research Council March 2020

Neurotransmitters, Receptors, Channels and Calcium Signaling (NTRC) study section, National Institutes of Health 2018

Human Frontier Science Program 2017

**Organizer, member organized session, Annual Meeting of the Biophysical Society** February 2023

Co-organized a platform session on Mechanosensitive Membrane Proteins at the Annual Meeting of the Biophysical Society.

### **Panelist**

Panel discussion on “Achieving Work-Life Balance Across Different Job Sectors”. Annual Meeting of the Biophysical Society February 2023

### **Poster Judge**

International Society for Mechanobiology Conference, Sydney, Australia

### **Poster Judge**

Biophysical Society conference on Molecular Biophysics of Membranes, Lake Tahoe. June 2022

### **Panelist**

Panel discussion on “Navigating your first year as PI”. Intersections Science Fellows Program November 2021

### **Biophysics Colab, Founding Member**

Sep 2021 – Present

Biophysics Colab is a collaboration of biophysicists who are working in partnership with eLife to improve the way in which original research is evaluated.

**Treasurer - Mechanobiology subgroup of the Biophysical Society**

Feb 2021 – Feb 2023

Managed the budget and fundraising for the subgroup, co-organized and co-chaired the 2023 subgroup symposium.

**bioRxiv Academic Affiliate**

2019 - Present

**Journal of General Physiology Editorial Advisory Board Member**

2019 - 2021

**Session chair**

Annual Symposium of the UCI Stem Cell Research Center, UC Irvine, Irvine, CA

April 2021

**Session chair**

Materials Research Society Fall Meeting, Boston, MA.

Dec 2019

**Panelist**

Nature Conference Panel Discussion on How to Design a Scientific Project: Hypothesis Generation, Study Design, and How to Deal with Potential Failure

May 2019

**Conference chair**

The Mechanome in Action, July 26-27 2018, UC Irvine.

2018

**Member**

Early Careers Committee of the Biophysical Society  
Organized workshops at Biophysical Society Meetings:

2013 – 2019

“Setting up your lab as an Assistant Professor”

2016

"Grant Opportunities for Early Career Faculty"

2015

"Moving on from your Postdoc Position: Negotiating the Transition"

2014

**Abstract Reviewer**

Biomedical Engineering Society Annual Meeting, Tampa, Florida

2015

**Panelist**

Grant-writing workshop organized by the UCI Postdoc Association

2015

**Ad hoc consultant**

Global Biological Standards Institute

2015

**Judge**

Poster Competition, American Society Cell Biology Annual Meeting, Philadelphia, PA

2014

**Workshop Organizer**

“Biosciences in India: Directions, Challenges and Opportunities” An Early Careers Committee Workshop at the Biophysical Society Meeting, San Francisco, California

2010

**Workshop Organizer**

“Wanted by India: A discussion meeting on academic career options in the Biosciences”, UCSF, San Francisco, California

2009

**Career Workshop Panelist**

Careers in Bioscience and Biotechnology Workshops:  
St. Xavier’s School, Ahmedabad, India  
L.A.D College of Women, Nagpur, India

2004

**Executive Committee & Admissions Committee Member**

Berkeley Biophysics Group

2001 – 2002

**MEDIA COVERAGE**

**Surprising discovery by UCI-led team links Piezo1 and cholesterol during brain development**

<https://www.eurekalert.org/news-releases/964041>

**UCI researchers reveal critical role of mechanosensor in skin wound healing, 9 Nov 2021**

<https://www.eurekalert.org/news-releases/934356>

New PI Slack, PI of the Month. 15 Jan 2019

<https://newpislack.wordpress.com/2019/01/13/medha-pathak-ph-d/>

Interview: Neuroscientist Medha Pathak and the “Mechanome in Action”. 16 Nov 2018

<https://oscillations.net/2018/11/16/neuroscientist-medha-pathak-and-the-mechanome-in-action/>

UCI researcher awarded NIH Director's New Innovator Award. 2 Oct 2018

[https://www.eurekalert.org/pub\\_releases/2018-10/uoc--ura093018.php](https://www.eurekalert.org/pub_releases/2018-10/uoc--ura093018.php)

## INSTITUTIONAL SERVICE

### *Service to the Department*

#### **Faculty Recruitment Committees**

Co-Chair, Tissue Engineering search committee, FHLRE Initiative with SCRC	2022-2023
Member, Tissue Engineering search committee, FHLRE Initiative with SCRC	2018 – 2020
Professor-in-Residence faculty position	2018 – 2019
Vision Cluster, SOM Cluster Hiring Initiative	2017 – 2018
Neurodevelopment Cluster, SOM Cluster Hiring Initiative	2016 – 2018
<b>SOM Research Computing Committee</b> , Department representative	2007
<b>Co-ordinated talks, workshops panel discussions</b>	2016 – Present

- Writing workshop for grad students and postdocs
- Panel discussion on how to communicate with your local elected official on science policy
- Department research seminars

### *Service to the Sue Bill Gross Stem Cell Research Center*

<b>Co-Chair</b> , Tissue Engineering search committee, FHLRE Initiative with Physiology	2022 - 2023
<b>Shared Resource Committee Member</b>	2018 – Present
<b>Host for speakers in the SCRC seminar series</b>	2017 - Present
<b>Participation in writing training grants and equipment grants</b>	2021 – Present
<b>Faculty Recruitment Committee</b> , Tissue Engineering, FHLRE Cluster Hiring Initiative	2018 – 2020
<b>CRISPR Core Committee Member</b> for hiring Core facility manager	2018
<b>Event coordinator</b> , Panel Discussion on How to Communicate With Your Local Congressperson (joint event with the Department of Physiology)	2017
<b>Search committee member</b> for hiring core facility manager	2017
<b>Poster Judge</b> , Stem Cell Awareness Day Symposium	2016
<b>Faculty Recruitment Initiative</b> , contributed to writing the proposal for the Faculty Hiring for Leveraged Research Excellence proposal	2016

### *Service to Graduate Programs*

<b>Cellular and Molecular Biology Graduate Program</b> , Co-chair, Preliminary Exam Committee	2019
<b>Cellular and Molecular Biology Graduate Program</b> , Faculty Interviewer	2019
<b>Center for Complex Biological Sciences</b> , Panelist, Applying for Fellowships and Grants	2019
<b>Medical Scientist Training Program (MSTP) Admissions Committee</b> , Member	2018 – 2019
<b>Behrens Graduate Fellowship Interview Committee Member</b>	2018
<b>Cellular and Molecular Biology Graduate Program</b> , Prelim exam Committee Member	2018
<b>Cellular and Molecular Biology Graduate Program</b> , Faculty Interviewer	2017
<b>Inter-departmental Neuroscience Program</b> , Faculty Interviewer	2017
<b>Cellular and Molecular Biology Graduate Program</b> , Prelim exam Committee Member	2017
<b>Cellular and Molecular Biology Graduate Program</b> , Admissions Committee Member	2016 – 2017

## DIVERSITY AND OUTREACH ACTIVITIES

<b>Improv to Improve Your Science</b> , 6-part HHMI-funded workshop for graduate students	2021 – 2022
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<b>Lead faculty contact for UCI at the <i>Intersections Science Fellows Symposium</i>,</b> symposium to showcase the research of outstanding postdocs on the faculty job market who have significantly contributed to promoting Diversity, Equity and Inclusion within academia and/or are members of groups historically underrepresented in academia	2021, 2022
<b>UCI School of Medicine Graduate Academic Community Forum on Anti-BIPOC Racism,</b> Breakout Room Discussion Leader for “Mentorship by Faculty”	July 2020
<b>Demystifying the Hidden Curriculum,</b> organized HHMI-funded workshops to support diversity at graduate level:	
Academic Calendaring	September 2020
Navigating Your Writing Path	August 2020
Project Management: Hunks, Chunks & Bites, Parts I and II	July 2020
Strategies & Mindsets to Protect Your Time, Energy & Attention	April 2020
<b>Overcoming Imposter Syndrome,</b> workshops to support diversity at graduate level	February 2020

### PROFESSIONAL DEVELOPMENT TRAINING

<b>UCI School of Medicine Dean’s Women’s Leadership Academy</b>	2021 - 2022
<b>HHMI Gilliam Mentorship Skills Development Training Workshop, Part II</b>	9/23/2021 – 9/24/2021
<b>HHMI Gilliam Mentorship Skills Development Training Workshop, Part I</b>	4/1/21 – 4/2/21
<b>HHMI Inclusive Learning Series, Harvard Business School</b>	11/5/20 – 2/18/21
<b>iCAM: Introduction to Culturally Aware Mentorship,</b> HHMI Gilliam Mentor training and the University of Wisconsin-Madison	March 2021
<b>HHMI Gilliam Mentorship Training,</b> Howard Hughes Medical Institute and the University of Wisconsin’s Center for the Improvement of Mentored Experiences in Research (CIMER)	10/1/19 – 3/31/21
<b>EMBO Laboratory Leadership Course for Group Leaders,</b> Stowers Institute, Kansas City, MO.	4/8/19 – 4/13/19
<b>AAMC Early Career Women Faculty Leadership Development Seminar,</b> San Diego, CA.	2/2/19 – 2/5/19
<b>Faculty Success Program, National Center for Faculty Development &amp; Diversity,</b> Online.	8/26/18 – 11/17/19
<b>Optical Microscopy and Imaging in the Biological Sciences,</b> Marine Biological Laboratory, Woods Hole, MA.	9/7/16 – 9/17/16
<b>Young Investigator meeting,</b> Poovar, Kerala, India.	2/24/09 – 2/28/09
<b>Biology of the Inner Ear – Experimental and Analytical Approaches,</b> Marine Biological Laboratory, Woods Hole, MA.	8/19/07 – 9/1/07