Eviatar Yemini, Ph.D.
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University of Massachusetts Chan Medical School
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Education

Ph.D., Neurobiology, MRC LMB, University of Cambridge, Cambridge, UK Thesis Title: High-throughput, single-worm tracking and analysis in *C. elegans* Advisor: William Schafer, Ph.D.	2/2013
M.S., Computational Neurobiology, University of California San Diego, San Diego, CA	9/2007
Post Baccalaureate, Neurobiology and Digital Signal Processing, Columbia University, New York, NY	6/2004
B.A., Pre-Medical Concentration in Computer Science and Mathematics, Dean's List, Columbia University, New York, NY	2/1997

Postdoctoral Training

Postdoctoral Fellow, HHMI Research Specialist, Biological Sciences Department, Columbia University, New York, NY Supervisor: Oliver Hobert, Ph.D.	2/2013- 11/2021

Academic Appointments

Assistant Professor Neurobiology Department, University of Massachusetts Chan Medical School, Worcester, MA	1/2022- Present

Other Positions and Employment

Chief Software Engineer, NeXtorage (Activium), New York, NY Led research and software development for failsafe network-based data storage and wire-speed network routing for video and telephony.	1999-2003
Senior Software Engineer, Arbitrade (Knight Trading Group), Ardsley, NY Led software design and development for a global, 24/7 financial-arbitrage trading system and statistical evaluation of financial risk.	1998-1999
Associate, Morgan Stanley, New York, NY Software engineer for foreign-exchange currency desk.	1997-1998

Honors and Awards

Hypothesis Fund Grant	2023-2025
Klingenstein-Simons Fellowship Award in Neurosciences	2022-2025
Gates Cambridge Scholarship	2007-2011

Educational Activities

Teaching Activities in Programs and Courses

Systems and Circuits Neuroscience (BBS-820), Lecturer, 7 Graduate Students, Session Title: Connectomics	2022 - Present
Cellular, Molecular and Developmental Neuroscience (BBS-780): Nervous System Development, Lecturer, 16 Graduate Students, Session Title: Neurogenesis and Cell Fate Specificity/Diversity	2022 - Present
Foundation Course: Scientific Inquiry in Biomedical Research (BBS 614), Assistant Lecturer, 61 Graduate Students, Workshop Title: Genetic Screen Activity	2022

External Educational Activities

Neuromatch Academy (NMA) Online Course, Computational Neuroscience, Project Mentor, https://academy.neuromatch.io	2022 - Present

Advising and Mentoring

Students

Ruixuan Xiao, Ph.D. Candidate, Ph.D. Co-Advisor (Dorothy Schafer 2nd Ph.D. Co-Advisor) Neurobiology Ph.D. Student (Yemini & Schafer Labs), UMass Chan Medical School, MA	2023-Present
Brendan Philippon, Ph.D. Candidate, Career Mentor Neurobiology Ph.D. Student (Byrne Lab), UMass Chan Medical School, MA	2023-Present
Daniel Sprague, Undergraduate, Mentor Research Assistant (Kato Lab), University of California San Francisco, CA	2023-Present
Maria Cristina Pop, Ph.D. Candidate, External Ph.D. Advisor Metabolic Programming Ph.D. Student (Vogt Lab), Helmholtz Munich, Germany	2022-Present
Richard Yan, Ph.D. Candidate, Mentor Biomedical Engineering Ph.D. Student (Hillman Lab), Columbia University, NY	2019-Present
Noah Rotman, Summer Research Volunteer, Mentor Pre-Medical Neuroscience, B.S. Candidate, Georgia State University - Atlanta, GA	2023
Tian Xia, Research Volunteer, Mentor Data Analytics and Computational Social Science M.A. Candidate, UMass Amherst, MA	2022
Aditya Nair, Undergraduate Research Fellowship, Mentor Neuroscience Ph.D. Student (Fee Lab), Massachusetts Institute of Technology, MA	2014-2016
Nina Michael, Undergraduate Research Fellowship, Mentor Biochemistry Ph.D. Student (Gonzalez Lab), Columbia University, NY	2014-2015
Emily Atlas, Undergraduate Research Fellowship, Mentor Neuroscience Ph.D. Student (Hudspeth Lab), Rockefeller University, NY	2014-2015
Anushua Bhattacharya, Undergraduate Research Fellowship, Mentor M.D. Student, Emory Univeristy, GA	2013-2014

Postdoctoral Trainees

Woojung Heo, Postdoctoral Fellow, Postdoctoral Mentor Postdoctoral Fellow (Yemini Lab), University of Massachusetts Chan Medical School	2023-Present
Xingyang Fu, Postdoctoral Fellow, Postdoctoral Mentor Postdoctoral Fellow (Yemini Lab), University of Massachusetts Chan Medical School	2022-Present

Investigation

Grants

Current

Agency: Hypothesis Fund	1/1/2023-
Title: Evolutionary changes in behavioral circuits: Comparing whole nervous systems across 15 million years of ecological adaptation	6/30/2024
Description: Evolutionary changes in neurobehavioral circuits	
Total, direct & indirect costs: $100,000	
Role: Principal Investigator (1% effort)	

Agency: Klingenstein-Simons Fellowship Award in Neuroscience	PI: Eviatar Yemini	7/1/2022-
Title: Developmental changes in neural dynamics that drive new behaviors: a systems-biology approach		7/1/2025
Description: Developmental changes in neural activity that drive age-appropriate behaviors.		
Total, direct & indirect costs: $225,000		
Role: Principal Investigator (3% effort)		

Agency: University of Massachusetts Chan Medical School Department of Neurobiology Startup Funds	PI: Eviatar Yemini	01/3/2022- Present
Role: Principal Investigator		

Completed

Agency: Gates Cambridge Trust	PI: Eviatar Yemini (William Schafer Lab)	10/1/2007-
Title: Worm Behavioural Phenome Project		11/29/2011
Description: Hardware, software, and database of mutant worm phenotypes.		
Total, direct & indirect costs: £49,000 stipend + £36,849 university fees		
Role: Ph.D. Student (100% effort)		

Scholarship

Peer-Reviewed Publications

1. Dyballa L, Lang S, Haslund-Gourley A, **Yemini E***, Zucker SW*. Learning dynamic representations of the functional connectome in neurobiological networks. *International Conference on Learning Representations*, Jan 16 (2024).

2. Nejatbakhsh A, Dey N, Venkatachalam V, **Yemini E**, Paninski L, Varol E. Learning Probabilistic Piecewise Rigid Atlases of Model Organisms via Generative Deep Networks. *International Conference on Information Processing in Medical Imaging*, Jun 8 (pp. 332-343) (2023).

3. Masoudi N, Schnabel R, **Yemini E**, Leyva-Diaz E, Hobert O. Cell-specific effects of the sole *C. elegans* Daughterless/E homolog, HLH-2, on nervous system development. *Development* Jan 3 (2022).

4. Gadenne M, Hardege I, **Yemini E**, Suleski D, Jaggers P, Beets I, Schafer W, and Chew Y. Neuropeptide signalling shapes feeding and reproductive behaviours in male *C. elegans*. *Life Science Alliance* Vol 5(10) (2022).

5. Skuhersky M, Wu T, **Yemini E**, Nejatbakhsh A, Boyden E, Tegmark M. Toward a more accurate 3D atlas of *C. elegans* neurons. *BMC Bioinformatics.* May 28;23(1):195 (2022).

6. Tekieli T, **Yemini E**, Nejatbakhsh A, Varol E, Fernandez RW, Masoudi N, Paninski L, Hobert O. Visualizing the organization and differentiation of the male-specific nervous system of *C. elegans*. *Development* Vol 148(18) (2021).

7. Taylor SR, Santpere G, Weinreb A, Barrett A, Reilly MB, Xu C, Varol E, Oikonomou P, Glenwinkel L, McWhirter R, Poff A, Basavaraju M, Rafi I, **Yemini E**, Cook SJ, Abrams A, Vidal B, Cros C, Tavazoie S, Sestan N, Hammarlund M, Hobert O, Miller DM. Molecular topography of an entire nervous system. *Cell* Vol 184(16): 4329-4347 (2021).

8. Glenwinkel L, Taylor SR, Langebeck-Jensen K, Pereira L, Reilly MB, Basavaraju M, Rafi I, **Yemini E**, Pocock R, Sestan N, Hammarlund M, Miller DM, Hobert O. In silico analysis of the transcriptional regulatory logic of neuronal identity specification throughout the *C. elegans* nervous system. *eLife* Vol 10: e64906 (2021).

9. Emmons SW, **Yemini E**, Zimmer M. Methods for analyzing neuronal structure and activity in *Caenorhabditis elegans*. *Genetics* Vol 218(4) (2021).

10. Masoudi N, **Yemini E**, Schnabel R, Hobert O. Piecemeal regulation of convergent neuronal lineages by bHLH transcription factors in *Caenorhabditis elegans*. *Development* Vol 148(11): dev199224 (2021).

11. **Yemini E**, Lin A, Nejatbakhsh A, Varol E, Sun R, Mena GE, Samuel ADT, Paninski L, Venkatachalam V, Hobert O. NeuroPAL: A Multicolor Atlas for Whole-Brain Neuronal Identification in *C. elegans*. *Cell* Vol 184(1): 278-288 (2021).

12. Nejatbakhsh A, Varol E, **Yemini E**, Venkatachalam V, Lin A, Samuel ADT, Hobert O, Paninski L. Demixing Calcium Imaging Data in *C. elegans* via Deformable Non-negative Matrix Factorization. *Medical Imaging Computing and Computer Assisted Intervention* Vol 12265:14-24 (2020).

13. Varol E, Nejatbakhsh A, Sun R, Mena GE, **Yemini E**, Hobert O, Paninski L. Statistical Atlas of *C. elegans* Neurons. *Medical Imaging Computing and Computer Assisted Intervention* Vol 12265:119-129 (2020).

14. Nejatbakhsh A, Varol E, **Yemini E**, Hobert O, Paninski L. Probabilistic Joint Segmentation and Labeling of *C. elegans* Neurons. *Medical Imaging Computing and Computer Assisted Intervention* Vol 12265:130-140 (2020).

15. Reilly MB, Cros C, Varol E, **Yemini E**, Hobert O. Unique homeobox codes delineate all the neuron classes of *C. elegans*. *Nature* Vol 584(7822): 595-601 (2020).

16. Cook SJ, Crouse CM, **Yemini E**, Hall DH, Emmons SW, Hobert O. The connectome of the *Caenorhabditis elegans* pharynx. *Journal of Comparative Neurology* Vol 528(16): 2767-2784 (2020).

17. Javer A, Currie M, Lee CW, Hokanson J, Li K, Martineau CN, **Yemini E**, Grundy LJ, Li C, Ch'ng Q, Schafer WR, Nollen EAA, Kerr R, Brown AEX. An open-source platform for analyzing and sharing worm-behavior data. *Nature Methods* Vol 15(9): 645-646 (2018).

18. Bentley B, Branicky R, Barnes CL, Chew YL, **Yemini E**, Bullmore ET, Vértes PE, Schafer WR. The Multilayer Connectome of *Caenorhabditis elegans*. *PLoS Computational Biology* Vol 12(12): e1005283 (2016).

19. Kato S, Kaplan HS, Schrödel T, Skora S, Lindsay TH, **Yemini E**, Lockery S, Zimmer M. Global brain dynamics embed the motor command sequence of *Caenorhabditis elegans*. *Cell* Vol 163(3): 656-669 (2015).

20. Butler VJ, Branicky R, **Yemini E**, Liewald JF, Gottschalk A, Kerr RA, Chklovskii DB, Schafer WR. A consistent muscle activation strategy underlies crawling and swimming in *Caenorhabditis elegans*. *Journal of the Royal Society Interface* Vol 12(102): 20140963 (2015).

21. **Yemini E**, Grundy L, Jucikas T, Brown AEX, Schafer WR. A database of *Caenorhabditis elegans* behavioral phenotypes. *Nature Methods* Vol (9): 877-879 (2013).

22. Brown AEX, **Yemini E**, Grundy L, Jucikas T, Schafer WR. A dictionary of behavioral motifs reveals genes affecting *C. elegans* locomotion. *Proceedings of the National Academy of Sciences of the USA* Vol 110(2): 791-796 (2013).

23. Cohen E, **Yemini E**, Schafer WR, Feitelson DG, Treinin M. Locomotion analysis identifies roles of mechanosensory neurons in governing locomotion dynamics of *C. elegans*. *Journal of Experimental Biology* Vol 215(20): 3639-3648 (2012).

24. **Yemini E**, Kerr RA, Schafer WR. Preparation of samples for single-worm tracking. *Cold Spring Harbor Protocols* Vol (12): 1475-1479 (2011).

25. **Yemini E**, Kerr RA, Schafer WR. Illumination for worm tracking and behavioral imaging. *Cold Spring Harbor Protocols* Vol (12): 1480-1482 (2011).

26. **Yemini E**, Kerr RA, Schafer WR. Tracking movement behavior of multiple worms on food. *Cold Spring Harbor Protocols* Vol (12): 1483-1487 (2011).

Books & Chapters

1. **Yemini EI**, Brown AE. Tracking Single *C. elegans* Using a USB Microscope on a Motorized Stage. *Methods in Molecular Biology (Second Edition)*. Vol 1327:181-197. Springer, Humana Press (2015).

Preprints and Other Interim Research Products

1. Guo M, Wu Y, Su Y, Qian S, Krueger E, Christensen R, Kroeschell G, Bui J, Chaw M, Zhang L, Liu J, Hou X, Han X, Ma X, Zhovmer A, Combs C, Moyle M, **Yemini E**, Liu H, Liu Z, La Riviere P, Colón-Ramos D, Shroff H. Deep learning-based aberration compensation improves contrast and resolution in fluorescence microscopy., (2023). Available from *bioRxiv* (https://doi.org/10.1101/2023.10.15.562439).

2. Haspel G, Boyden ES, Brown J, Church G, Cohen N, Fang-Yen C, Flavell S, Goodman MB, Hart AC, Hobert O, Kagias K, Lockery S, Lu Y, Marblestone A, Matelsky J, Pfister H, Rotstein HG, Scholz M, Shlizerman E, Simeon Q, Venkatachalam V, Yang GR, **Yemini E**, Zimmer M, Kording KP. To reverse engineer an entire nervous system. (2023). Available from *arXiv* (https://arxiv.org/abs/2308.06578).

3. Barrett A, Varol E, Weinreb A, Taylor SR, McWhirter R, Cros C, Basavaraju M, Poff A, Tipps JA, Majeed M, Vidal B, Wang C, **Yemini E**, Bayer EA, Sun HS, Hobert O, Miller DM, Hammarlund M. Integrating bulk and single cell RNA-seq refines transcriptomic profiles of specific *C. elegans* neurons. (2022). Available from *bioRxiv* (https://doi.org/10.1101/2022.04.05.487209).

4. Cecere ZT, Quach KT, **Yemini E**, How JJ, Sharpee TO, Chalasani SH. State-dependent network interactions differentially gate sensory input at the motor and command neuron level in *Caenorhabditis elegans*. (2021). Available from *bioRxiv* (https://doi.org/10.1101/2021.04.09.439242).

Non-peer-reviewed Publications

1. **Yemini, E**. Systems neuroscience: Foraging through serotonin's tangled web. *Current Biology* Jul 24;33(14):R767-R770 (2023).

Non-print / Online materials

1. **Yemini E**. Yemini Lab Public Plasmid Library. *Addgene* (https://www.addgene.org/Eviatar_Yemini/). 2022.

2. **Yemini E**. In Living Color: Whole-Nervous-System Cell IDs. *Open Science Presentations* (https://www.youtube.com/watch?v=C3VrDqG1voU). 2022.

3. **Yemini E**. NeuroPAL: A Multicolor Atlas for Whole-Brain Neuronal Identification in *C. elegans*. *JRNLclub* (https://jrnlclub.org/research-films/neuropal). 2022.

4. Nejatbakhsh A, **Yemini E**, Rusch KW, Varol E, Mena GE, Sun R, Seyedolmohadesin M, Creamer M, Leifer A, Venkatachalam V, Paninski L, Hobert O. *NeuroPAL Auto-ID Software*. *Github* (https://github.com/Yemini-Lab/NeuroPAL_ID) and *Academic Website* (https://www.yeminilab.com/neuropal) 2021, updated 2022.

5. Varol E, **Yemini E**, Paninski L, Hobert O. *NeuroPAL Optimal-Coloring Software*. *Zenodo* (https://zenodo.org/record/4620227#.YRcKPS1h3xI) and *Github* (https://github.com/Yemini-Lab/Optimal_Coloring) 2021.

6. Venkatachalam V, **Yemini E**, Lin A, Samuel ADT, Hobert O. *NeuroPAL Neuronal Activity Scripts*. *Zenodo* (https://zenodo.org/record/4620225#.YRcKIS1h3xI) 2021.

7. **Yemini E**, Lin A, Nejatbakhsh A, Varol E, Sun R, Mena GE, Samuel ADT, Paninski L, Venkatachalam V, Hobert O. *NeuroPAL Activity, Image Volumes, and Cell-Type Identities – Raw Data*. *Zenodo* (https://zenodo.org/record/4516655#.YRcNay1h3xL) 2021.

8. **Yemini E**, Hobert O. *NeuroPAL Reporter Plasmid Maps*. *Zenodo* (https://zenodo.org/record/4516620#.YRcLeS1h3xI) 2021.

9. **Yemini E**, Hobert O. *NeuroPAL ID Manuals and their Image Volumes*. *Zenodo* (https://zenodo.org/record/4516558#.YRcLfC1h3xI) 2021.

10. **Yemini E**, Lin A, Nejatbakhsh A, Varol E, Sun R, Mena GE, Samuel ADT, Paninski L, Venkatachalam V, Hobert O. *NeuroPAL Activity, Image Volumes, and Cell-Type Identities – Processed Data*. *Zenodo* (https://zenodo.org/record/3906530#.YRXHqS1h3xI) 2020.

11. **Yemini E**, Grundy L, Jucikas T, Brown AEX, Schafer WR. *Database of Caenorhabditis elegans Behavioral Phenotypes. Academic Websites* (http://movement.openworm.org and https://www.yeminilab.com/behavior) 2013, updated 2018.

12. **Yemini E**, Jucikas T, Brown AEX, Schafer WR. *Hardware and Software to Record and Analyze Worm Phenotypes. Github* (https://github.com/Yemini-Lab/WT2) and *Academic Website* (https://www.yeminilab.com/behavior) 2012.

Invited Presentations

International

"A Tale of Two Sexes: The Neural Dynamics of Dimorphic Behavior", Seminar Series, Helmholtz Zentrum München, Germany	9/21/2023
"A Tale of Two Sexes: The Neural Dynamics of Dimorphic Behavior", iBehave Seminar Series, Max Planck Institute for Neurobiology of Behavior, Germany	9/18/2023
Session Chair, "Neuronal Cell Biology, Degeneration, & Behavior", 23rd International *C. elegans* Meeting, Glasgow, Scotland	6/27/2023
Workshop Organizer, "So You Want to Record Whole-Brain Neural Activity …", 23rd International *C. elegans* Meeting, Glasgow, Scotland	6/25/2023
"In Living Color: Whole-Nervous-System Cell IDs to Map Neural Communication and Fate *In Vivo*", Monthly Maggot Monday, International Virtual Seminar	2/14/2022
"Biologist, Know Thy Cells - A Colorful Barcoding Method to ID Cell Types, their Fate, and Decode Brainwide Communication", Champalimaud Center for the Unknown, Portugal	12/2/2021
"Biologist, Know Thy Cells - A Colorful Barcoding Method to ID Cell Types, their Fate, and Decode Brainwide Communication", Andalusian Centre for Developmental Biology, Spain	11/12/2021
"Biologist, Know Thy Cells - A Colorful Barcoding Method to ID Cell Types, their Fate, and Decode Brainwide Communication", Institute of Biomedicine of Valencia, Spain	10/27/2021
"Biologist, Know Thy Cells - A Colorful Barcoding Method to ID Cell Types, their Fate, and Decode Brainwide Communication", Centre for Genomic Regulation, Spain	10/13/2021
"Biologist, Know Thy Cells - A Colorful Barcoding Method to ID Cell Types, their Fate, and Decode Brainwide Communication", Tel Aviv University, Israel	12/9/2020
"Biologist, Know Thy Cells - A Colorful Barcoding Method to ID Cell Types, their Fate, and Decode Brainwide Communication", Oxford Talks, University of Oxford, UK	11/25/2020
"NeuroPAL: A Neuronal Polychromatic Atlas of Landmarks for Whole-Brain Imaging in *C. elegans*", University of Tokyo, Japan	11/15/2019
"NeuroPAL: A Neuronal Polychromatic Atlas of Landmarks for Whole-Brain Imaging in C. elegans", Neural Mechanisms Underlying Behavior, Nagoya University, Japan	11/12/2019
Workshop Organizer, Whole-Brain Imaging Workshop, 22nd International *C. elegans* Meeting, University of California Los Angeles, USA	6/23/2019
"Determining neuronal identity", Whole-Brain Imaging Workshop, 22nd International C. elegans Meeting, University of California Los Angeles, USA	6/23/2019
"Whole-Brain Functional and Molecular Connectomics using the NeuroPAL", Neurobiology: Sensory Responses and Novel Methods, 22nd International C. elegans Meeting, University of California Los Angeles, USA	6/22/2019
"Decoding Whole-Brain Molecular & Functional Connectomics in *C. elegans*", The Next Generation of Connectomics, HHMI Connectomics Conference, Max Planck Institute for Brain Research, Germany	4/15/2019
"Fast Whole-Brain Imaging with Complete Neural Identity in *C. elegans*", Connectome to Behaviour: Modelling *C. elegans* at Cellular Resolution, The Royal Society, UK	1/29/2018

"Automated Neural Tracking in Behaving Animals", Worm Tracking: Recent Advances and Future Directions Workshop, 20th International *C. elegans Meeting*, University of California Los Angeles, USA	6/27/2015
"A Database of *C. elegans* Behavioral Phenotypes", Development and Evolution II: Cell Death, Development and Evolution, 19th International *C. elegans Meeting*, University of California Los Angeles, USA	6/28/2013

National

"A Tale of Two Sexes: The Neural Dynamics of Dimorphic Behavior", Department of Genetics Seminar Series, Washington University in St. Louis, MO * *Invited future presentation.*	5/16/2024
"A Tale of Two Sexes: The Neural Dynamics of Dimorphic Behavior", Seminar Series, Chan Zuckerberg Biohub, San Francisco, CA * *Invited future presentation.*	3/8/2024
"A Tale of Two Sexes: The Neural Dynamics of Dimorphic Behavior", Kavli and Weill Institutes Special Seminar Series, University of California San Francisco, CA * *Invited future presentation.*	3/7/2024
"A Tale of Two Sexes: The Neural Dynamics of Dimorphic Behavior", Superworm Seminar Series, Stanford University, CA * *Invited future presentation.*	3/4/2024
"A Tale of Two Sexes: The Neural Dynamics of Dimorphic Behavior", 6th Puerto Rico Mini-Brains Symposium, San Juan, Puerto Rico	3/1/2024
"Towards a Grand Unified Theory of a Simple Nervous System", Functional Logic of Neural Circuits: Diamonds in the Rough (FLNDR 2024), San Juan, Puerto Rico	2/28/2024
"A Tale of Two Sexes: The Neural Dynamics of Dimorphic Behavior", Allen Institute, Seattle, WA	10/18/2023
"A Tale of Two Sexes: The Neural Dynamics of Dimorphic Behavior", Scientific Seminar Series, Fred Hutch Cancer Center, Seattle, WA	10/16/2023
"In Living Color: Whole-Nervous-System Cell IDs to Map Neural Communication and Fate *In Vivo*", Duke Thursday Seminar Series, Duke University, NC	4/20/2023
"In Living Color: Whole-Nervous-System Cell IDs to Map Neural Communication and Fate In Vivo", Special Seminar, University of California San Diego, CA	11/18/2022
"Biologist, Know Thy Cells - A Colorful Barcoding Method to ID Cell Types, their Fate, and Decode Brainwide Communication", Houston Area Worm Group Seminar, Houston, TX	2/4/2022
"Biologist, Know Thy Cells - A Colorful Barcoding Method to ID Cell Types, their Fate, and Decode Brainwide Communication", Biology Postdocs & Associate-Scientists Seminars (Bi-PASS), Columbia University, NY	6/3/2021
"Biologist, Know Thy Cells - A Colorful Barcoding Method to ID Cell Types, their Fate, and Decode Brainwide Communication", University of California Los Angeles, CA	1/13/2021
"NeuroPAL: A Neuronal Polychromatic Atlas of Landmarks for Whole-Brain Imaging in *C. elegans*", Theory Meeting, Center for Theoretical Neuroscience, Columbia University, NY	8/23/2019
"NeuroPAL: A Neuronal Polychromatic Atlas of Landmarks for Whole-Brain Imaging in *C. elegans*", Zuckerman Institute Postdoctoral Seminar Series (ZIPS), Columbia University, NY	3/8/2019
"Whole-Brain Imaging with NeuroPAL", 18th New York Area Worm Meeting, New York University, NY	1/18/2019

Regional

"In Living Color: Whole-Nervous-System Cell IDs to Map Neural Communication and Fate In Vivo", Physiology & Biophysics Seminar, Boston University, Boston, MA	2/28/2023
"Nervous-System Reprogramming During Development & Evolution", UMass Chan 27th Annual Research Retreat, Amherst, MA	11/4/2022
"In Living Color: Whole-Nervous-System Cell IDs to Map Neural Communication and Fate In Vivo", Epigenetics Club Seminar, UMass Chan Medical School, MA	11/2/2022
"In Living Color: Whole-Nervous-System Cell IDs to Map Neural Communication and Fate In Vivo", Science on Tap Seminar, UMass Chan Medical School, MA	6/17/2022
"In Living Color: Whole-Nervous-System Cell IDs to Map Neural Communication and Fate *In Vivo*", Worcester Area Worm Meeting, Boston, MA	5/4/2022
"In Living Color: Whole-Nervous-System Cell IDs to Map Neural Communication and Fate *In Vivo*", Boston Area Worm Meeting, Boston, MA	3/23/2022
"Biologist, Know Thy Cells - A Colorful Barcoding Method to ID Cell Types, their Fate, and Decode Brainwide Communication", UMass Chan Medical School, Worcester, MA	4/16/2021
"Fast Whole-Brain Imaging with Single-Neuron Identity in *C. elegans*", Neurolunch, Harvard University, Cambridge, MA	10/19/2016

Other Presentations, Posters & Abstracts

International

Yemini E (presenter) and Hobert O. Poster: "Automated Neural Identification in *C. elegans*". 20th International *C. elegans* Meeting. University of California Los Angeles, USA	6/26/2015
Yemini E (presenter), Schafer WR, and Hobert O. Poster: "Worm Tracker: The Next Generation". Society for Neuroscience 2014. Washington DC, USA	11/17/2014

National

Yemini E (presenter), Lin A, Nejatbakhsh A, Varol E, Sun R, Mena GE, Samuel ADT, Paninski L, Venkatachalam V and Hobert O. Poster: "NeuroPAL: A Neuronal Polychromatic Atlas of Landmarks for Whole-Brain Imaging in *C. elegans*". HHMI Science Meeting. Janelia Research Campus, VA	10/15/2019-10/17/2019
Yemini E (presenter), Venkatachalam V, Samuel ADT, and Hobert O. Poster: "Fast Whole-Brain Imaging with Single-Neuron Identity and Neuronal Registration Across the Animal Populace". Neuronal Circuits. Cold Spring Harbor Laboratory, NY	4/6/2016-4/9/2016
Yemini E (presenter) and Hobert O. Poster: "Automated Neural Identification in *C. elegans*". Emerging Tools for Acquisition and Interpretation of Whole-Brain Functional Data. Janelia Research Campus, VA	11/1/2015-11/4/2015

<u>Academic Service</u>

Internal Administration and Service

School

Committee on Equal Opportunity and Diversity (CEOD), Neurobiology Department Liaison, UMass Chan Medical School	2023 - Present
Diversity, Equity & Inclusion (DEI) Committee, Neurobiology Department Liaison, UMass Chan Medical School	2022 - 2023
Voices in Science (Seminar Series Highlighting Underrepresented Scientists), Faculty Advisor, UMass Chan Medical School	2022 - Present

Morningside Graduate School of Biomedical Sciences, Graduate Student Candidate Recruitment, UMass Chan Medical School	2022 - Present
Morningside Graduate School of Biomedical Sciences, Graduate Student Candidate Interviewer, UMass Chan Medical School	2022 - Present
UMass Chan Graduate School of Biomedical Sciences Student Recruitment at the Society for Neuroscience Conference, Recruitment Staff, UMass Chan Medical School	2022
UMass Chan Program in Neuroscience 2022 Harold M. Weintraub Graduate Student Award Selection Committee, Committee Member, UMass Chan Medical School	2022
Investigator Career Advancement Program (iCAP), Program Manager Interviewer, UMass Chan Medical School	2022
Investigator Career Advancement Program (iCAP), Senior Scientific Writer Interviewer, UMass Chan Medical School	2022

External Administration and Service

National

The Allied Genetics Conference (TAGC), Neurobiology Presentation Selection Subcommittee, Committee Member	2023

Editorial Responsibilities

Cell, Reviewer	2023
Proceedings of the National Academy of Sciences (PNAS), Reviewer	2023
Current Biology, Reviewer	2022
PLoS Computational Biology, Reviewer	2022
BMC Bioinformatics, Reviewer	2022
eLife, Reviewer	2021

Professional Development

Advance Series: Facilitating Active Learning & Participation (UMass Chan Medical School)	2022
Accessibility in STEM Workshop (Genetics Society of America)	2022
Inclusive Leadership: Leading with Intention (UMass Chan Medical School)	2022
Raising a Resilient Scientist (NIH)	2022
Computational Neuroscience Course (Neuromatch Academy), https://academy.neuromatch.io	2021