

Curriculum Vitae

Jessica A. Osterhout Ph.D.

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Positions

University of Utah
2022 – Assistant professor of Neurobiology

Education and Training

Harvard University
2016 – 2022 Postdoctoral Fellow, Molecular and Cellular Biology Department, Advisor: Catherine Dulac, Ph.D.

University of California, San Diego
2010-2015 Ph.D. in Biological Sciences, Advisor: Andrew Huberman, Ph.D.
Thesis: Axon target matching in the developing visual system

University of Oregon
2006-2010 B.S. in Biology, minor in Chemistry, Research Advisor: Chris Doe, Ph.D.

Honors, Prizes and Fellowships

2024 Klingenstein-Simmons Fellowship Award
2024 Whitehall Foundation Research Grant
2021 Y. Eva Tan Postdoctoral Fellowship
2021 Meselson Prize for “The most beautiful experiment of the year”,
Molecular and Cellular Biology Department, Harvard University
2020 NIH Pathway to Independence Award (K99/R00)
2019 Best Poster Award, Ascona Circuits Meeting
2016 Jane Coffin Childs Memorial Fund Postdoctoral Fellowship
2016 Damon Runyon Postdoctoral Fellowship (declined)
2011 National Science Foundation Graduate Research Fellowship
2012 Fine Science Tools Travel Award
2010 GAANN fellowship, US Department of Education

Grant Support

Active

1/2020-1/2026 NIH K99/R00 Pathway to Independence Award. “Molecular and functional characterization of the cells and circuits underlying the fever response”
7/2024-6/2027 Whitehall Foundation Research Grant. “Control of pain sensitivity during sickness”
7/2024-6/2027 Klingenstein-Simmons Fellowship Award. “Why does sickness hurt?”

Publications

Osterhout JA, Kapoor V, Eichhorn SW, Vaughn E, Moore JD, Lui D, Lee D, DeNardo LA, Luo L, Zhuang X, Dulac C (2022). A preoptic neuronal population controls fever and loss of appetite during sickness. *Nature* (606): 937-944.

Li Y, Mathis A, Grewe BF, **Osterhout JA**, Ahanonu B, Schnitzer MJ, Murthy VN, Dulac C (2017) Neuronal representation of social information in the medial amygdala of awake behaving mice. *Cell* (5): 1176-1190.

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Osterhout JA, Nguyen PL, Yoshihara Y, Huberman AD (2015) Contactin-4 mediates axon-target specificity and functional development of the accessory optic system. *Neuron* (4): 855-57.

Osterhout JA, El-Danaf RN, Nguyen PL, Huberman AD (2014) Birthdate and outgrowth timing predict cellular mechanisms of axon-target matching in the developing visual pathway. *Cell Reports* (8):1-12.

Osterhout JA, Josten N, Yamada J, Pan F, Wu SW, Nguyen PL, Panagiotakos G, Inoue YU, Egusa SF, Volgi B, Inoue T, Bloomfield SA, Barres BA, Berson DM, Feldheim DA, Huberman AD (2011) Cadherin-6 mediates axon-target matching in a non-image-forming visual circuit. *Neuron* (71):632-9.

Carney TD, Miller MR, Robinson KJ, Bayraktar OA, **Osterhout JA**, Doe CQ (2012) Functional genomics identifies neural stem cell sub-type expression profiles and genes regulating neuroblast homeostasis. *Dev Biol* (36):137-46.

Invited Research Talks

- 2024 **Winter Conference on Neural Plasticity**, Puerto Vallarta, Mexico
- 2023 **Columbia University**, Naomi Berrie Diabetes Center, New York City, NY
- 2023 **International Society of Neuroimmunology Annual Congress**, Quebec City, Canada
- 2023 **American Association of Immunology Annual Meeting**, Washington D.C.
- 2022 **University of New Mexico**, Center for Evolutionary and Theoretical Immunology
- 2022 **Northwestern University, Children's Hospital of Chicago**, Neurobiology of Disease Series
- 2022 **Gordon Research Conference**, Optogenetic approaches to understanding neural circuits
- 2022 **Open Box Science Seminar**
- 2021 **Tan-Yang Center Scientific Advisory Board meeting**
- 2020 **Harvard University**, Department of Molecular and Cellular Biology seminar series
- 2019 **Jane Coffin Childs Annual Symposium**
- 2018 **Postdoc Science Café**, Cambridge, MA
- 2013 **Biological Sciences retreat**, Lake Arrowhead, CA
- 2012 **Neurodevelopment Interest Group Symposium**, San Diego, CA

Mentorship and Advising (* denotes underrepresented minority)

Graduate Students

- (2022 -) Jacklyn Nguyen, University of Utah, Neurobiology Program
- (2022 -) Michelle Swarovski, University of Utah, Neuroscience Program
- (2024 -) Hailee Walker, University of Utah, Neuroscience Program
- (2024 -) Angela Chung, University of Utah, Neuroscience Program

Postdoctoral Scholars

- (2024 -) Danielle Germundson-Hermanson, PhD

Post-Bac Research Technicians

- (2023 -) Robert Ettaro, University of Utah
- (2021-2022) Josie Emery, Harvard University, Research technician, Dulac Lab
- (2019-2021) Ashely Emery, Emory University, Psychology Ph.D. student
- (2018-2019) Dean Lee, M.S., HiFiBio Therapeutics, Group Leader, Single Cell Data Scientist

Undergraduates

- (2022 -) Marie Slater, University of Utah
- (2019-2021) Isabella Beckett, MCR Laboratory of Molecular Biology, Ph.D. student
- (2019-2021) Aba Sam*, University of Oxford, Clinical and Therapeutic Neuroscience Masters program
- (2018-2019) Melonie Vaughn*, University of California, San Diego, Biological Sciences Ph.D. student

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- (2017-2019) Rajdeep Trilokekar, Brigham Young University Law, J.D. student
(2016) Ibtihal Elfaki*, Stanford Medicine M.D./Ph.D. student
(2011-2013) Pritha Multani M.D., Department of pediatrics, UC Davis, resident

Graduate Student Thesis Advisory Committees

- (2023 -) Samantha Stone, Microbiology and Immunology Graduate Program, University of Utah
(2023 -) Becca Schnabel, Neuroscience Graduate Program, University of Utah
(2023 -) Qwynn Landfield, Neuroscience Graduate Program, University of Utah
(2022 -) Uchechukwu Mgbike*, Bioscience Graduate Program, University of Utah
(2022 -) Maddie Swall, Bioscience Graduate Program, University of Utah

Service and Outreach

- 2023 - *Member of Diversity and Inclusion Action Committee*, Neurobiology Dept., University of Utah
2023 - *Faculty Advisor: Rising stars in Neuroscience program*, University of Utah
2023 - *Recruitment Committee Chair: Neuroscience Graduate Program*, University of Utah
2023 - *Retreat Committee Chair: Neurobiology Department*, University of Utah
2014-2015 *Graduate Research Seminar Organizer: Neurobiology series*, Univ. of Calif., San Diego
2012 *Guest Lecturer: Advanced Placement Genetics laboratory*, Southwest High School, San Diego
2011 *Judge: Greater San Diego Science and Engineering Fair*

Teaching experience

- 2019 *Teaching Fellow: Molecular basis of behavior*, Harvard University
2014-2015 *Teaching Assistant Instructor: Biological Sciences*, University of California, San Diego
Graduate teaching mentor; Trained, observed, evaluated PhD-level teaching assistants
2015 *Guest Lecturer: Healthy and Diseased Brain*, University of California, San Diego
2014 *Lead Teaching Assistant: Healthy and Diseased Brain*, University of California, San Diego
2014 *Guest Lecturer: Healthy and Diseased Brain*, University of California, San Diego
2013 *Teaching Assistant: Bacteriology*, University of California, San Diego
2012 *Teaching Assistant: Biochemical Techniques Laboratory*, University of California, San Diego