

Curriculum Vitae

Jessica A. Osterhout Ph.D.

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Positions

2021 – **University of Utah**
Assistant professor of Neurobiology

Education

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

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

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

Honors, Prizes and Fellowships

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” \$993,348 total costs. Role: PI

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.

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.

Curriculum Vitae

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.

Research Talks

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
 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

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

Mentorship and Advising (* denotes underrepresented minority)

Rotation Students

(2022) Jacklyn Nguyen, University of Utah, Neurobiology program

Graduate Student Thesis Advisory Committees

(2022 -) Michelle Swarovski, University of Utah, Neuroscience Graduate Program
 (2022 -) Uchechukwu Mgbike*, University of Utah, Bioscience Graduate Program
 (2022 -) Reilly Falter, University of Utah, Bioscience Graduate Program
 (2022 -) Maddie Swall, University of Utah, Bioscience Graduate Program

Post-Bac Technicians

(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

Curriculum Vitae

Undergraduates

- (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
- (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

Service and Outreach

- 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*