# Curriculum Vitae

### Jessica A. Osterhout Ph.D.

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### **Professional 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**

Pew Biomedical Scholar
Semi-finalist, the Howard Hughes Medical Institute 2025 Freeman Hrabowski Scholars Program
Klingenstein-Simons Fellowship Award
Whitehall Foundation Research Grant
Y. Eva Tan Postdoctoral Fellowship
Meselson Prize for "The most beautiful experiment of the year", Harvard University
NIH Pathway to Independence Award (K99/R00)
Best Poster Award, Ascona Circuits Meeting
Jane Coffin Childs Memorial Fund Postdoctoral Fellowship
Damon Runyon Postdoctoral Fellowship (declined)
National Science Foundation Graduate Research Fellowship
Fine Science Tools Travel Award
GAANN fellowship, US Department of Education

### **Grant Support**

<u>Active</u>	
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?"
8/2025-7/2029	<u>Pew Biomedical Scholars Award</u> . "Immunoception: how does the brain decode immune
	signals?"

# **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

# Curriculum Vitae

- 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.
- **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 axontarget 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**

2025	Vitae 2025, University of Utah, Salt Lake City, UT
2025	Brain Barriers Meeting, Cold Spring Harbor Laboratory
2025	St. Jude's Children's Hospital, SJCRH Brain Club Speaker, Memphis, TN
2024	Iowa State University, Genetics, Development and Cell Biology, Ames, Iowa
2024	University of Otago, Center for Neuroendocrinology, Virtual
2024	Society of Neuroendocrinology Conference, Columbus, OH
2024	Keystone Symposia: Neuroimmune Interactions, Santa Fe, NM
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, Virtual
2021	Tan-Yang Center Scientific Advisory Board meeting, Virtual
2020	Harvard University, Department of Molecular and Cellular Biology seminar series
2019	Jane Coffin Childs Annual Symposium, New Haven, CT
2018	Postdoc Science Café, Harvard University, Cambridge, MA
2013	Biological Sciences retreat, Lake Arrowhead, CA
2012	Neurodevelopment Interest Group Symposium, San Diego, CA

## **Mentorship and Advising**

### **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 - )	Sophia Andreadis, University of Utah, Neuroscience Program

# <u>Postdoctoral Scholars</u>

(2024 – ) Danielle Germundson-Hermanson, PhD

# Post-Bac Research Technicians

(2023 – ) Robert Ettaro, University of Utah

(2021-2022) Josie Emery, Harvard University, Research technician, Dulac Laboratory

# Curriculum Vitae

(2019-2021)	Ashely Emery, Emory University, Psychology Ph.D. student	
(2017 2021)	rishely Efficiency Offiversity, I sychology I h.b. student	

(2018-2019) Dean Lee, M.S., HiFiBio Therapeutics, Group Leader, Single Cell Data Scientist

# <u>Undergraduates</u>

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(2024 - )	Samuel Hedges, University of Utah
(2022-2024)	Marie Slater, Graduate student, Physician Assistant Program

(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

# **Graduate Student Thesis Advisory Committees**

(2024 – )	Claire Tobin, Neuroscience Graduate Program, University of Utah
(2024 - )	Michaela Murphy, Neuroscience Graduate Program, University of Utah
(2024 - )	Courtney Demmitt-Rice, Neuroscience Graduate Program, University of Utah
(2023 - )	Samantha Stone, Microbiology and Immunology 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 Committee for Respect, Unity and Equity, 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**

2025	Course Director: Capstone preparation course
2024	Guest Lecturer: Intro to Molecular Neuroscience, University of Utah
2024	Guest Lecturer: Quantitative Methods in Neuroscience, University of Utah
2023	Guest Lecturer: Light Microscopy and Digital Imaging, University of Utah
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