

Ellen applied for a tenure-track faculty position as a post-doc. At that point, she emphasized her two NRSA fellowships, and she placed her publications at the end of the CV, just prior to her references, as is expected in the life sciences.

It is rare for a PhD in the experimental sciences to successfully land a tenure-track faculty position immediately out of graduate school. A postdoc is almost always necessary. When Ellen had applied for her postdoctoral position, she included more detail about her graduate research.

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CURRENT POSITION

University of California, Los Angeles
Postdoctoral Fellow

Los Angeles, CA
2017-Present

EDUCATION

Harvard University
PhD, Neurobiology
Dissertation: Development of synaptic plasticity in *Aplysia californica*

Cambridge, MA
2017

Dartmouth College
BS, *magna cum laude*, Biology. Phi Beta Kappa

Hanover, NH
2009

GRANTS AND AWARDS

Ruth L. Kirschstein Post-Doctoral National Research Service Award
National Institute of Deafness and Other Communication Disorders, National Institutes of Health

2018-2019

Department of Neuroscience, Emerging Faculty Award
University of California, Los Angeles

2017

Ruth L. Kirschstein Pre-Doctoral National Research Service Award
National Institute of Mental Health, National Institutes of Health

2014-2016

Bok Center Certificate of Distinction in Teaching Award
Harvard University

2014, 2016

RESEARCH EXPERIENCE

University of California, Los Angeles
Postdoctoral Fellow; Advisor: Young X. Shen

Los Angeles, CA
2017-Present

Developmental regulation of NMDA receptor-mediated synaptic transmission in zebra finch brain

- Developed single cell PCR method to study developmental changes in NMDA receptors, correlated with developmental stages of song learning
- Analyzed developmental changes in juvenile song using customized LabView software.
- Altered development of song with behavioral and circadian manipulations

Harvard University
Graduate Researcher; Advisor: Thomas J. Schmidt
Serotonergic modulation of synaptic transmission in developing and adult *Aplysia*

Cambridge, MA
2010-2017

- Used *in vitro* single cell neurophysiological recording and stimulation to study developmental emergence of two serotonin-mediated forms of synaptic plasticity

Marine Biological Laboratory

Participant, Neural Systems and Behavior course

Woods Hole, MA

Summer 2012

Harvard University

Graduate Research Assistant; Advisor: Emily Chester

Cambridge, MA

2009-2010

Expression of Lupus antigens in fetal rat brain

- Characterized developmental changes in expression of numerous lupus antigens using immunocytochemistry and fluorescence microscopy

TEACHING EXPERIENCE

University of California, Los Angeles

Written and Oral Communication Advisor

Los Angeles, CA

Spring 2018-Present

Guest Lecturer and Consultant, Seminar in Animal Communication

Spring 2018

Harvard University

Guest Lecturer, Introductory Psychology

New York, NY

Summer 2015, 2016

Head Teaching Fellow, Cellular Basis of Behavior

Spring 2016

Teaching Fellow, Cellular Basis of Behavior

Spring 2014

Teaching Fellow, Neurobiology

Fall 2014

Dartmouth College

Teaching Fellow, Special Topics in Psychology

Hanover, NH

Spring 2008

Teaching Fellow, Introductory Biology

Fall 2007, Fall 2008

RELATED PROFESSIONAL EXPERIENCE

Harvard Graduate Women in Science and Engineering (HGWSE), Harvard University

Cambridge, MA

President

2015-2017

- Organized and led student representatives from 25 natural science departments to promote issues of concern to women scientists and engineers at Harvard
- Co-chaired Invited Speakers committee. Managed 3 public symposia featuring nationally-renowned women scientists

PROFESSIONAL ASSOCIATIONS

Society for Neuroscience

International Association of Electrophysiologists

New York Academy of Sciences

CONFERENCE PRESENTATIONS

Joseph, E.R. and Shen, Y.X. Synaptic maturation is input-specific and occurs in two phases in nucleus RA of the zebra finch. Society for Neuroscience Abstracts. Poster presentation to be delivered at the Society for Neuroscience meeting, San Diego, CA, November, 2019.

Joseph, E.R. and Shen, Y.X. Developmental regulation of NMDA receptor-mediated synaptic currents in nucleus RA of the zebra finch. Society for Neuroscience Abstracts. 25:191. Poster presentation delivered at the Society for Neuroscience meeting, Atlanta, GA, November, 2018.

Joseph, E.R. and Schmidt, T.J. Synaptic facilitation is independent of spike duration in sensory neurons of juvenile *Aplysia*. Society for Neuroscience Abstracts. 25:695. Poster presentation delivered at the Society for Neuroscience meeting, Washington, D.C., November, 2016.

Joseph, E.R. and Schmidt, T.J. Serotonergic facilitation of synaptic transmission in juvenile *Aplysia*. Society for Neuroscience Abstracts. 23:814. Oral presentation delivered at the Society for Neuroscience meeting, New Orleans, LA, November, 2015.

Joseph, E.R., Kline, N.J., and Schmidt, T.J. Temporal dissociation of 5HT-induced spike broadening and excitability in *Aplysia* sensory neurons. Society for Neuroscience Abstracts. 21:941. Oral presentation delivered at the Society for Neuroscience meeting, St. Louis, MO, November, 2013.

Joseph, E.R. and Schmidt, T.J. Teaching neuroscience through a laboratory experience: you can't start too young. Society for Neuroscience Abstracts. 20:518. Poster presentation delivered at the Society for Neuroscience meeting, Orlando, FL, November 2012.

REVIEW ARTICLES

Joseph, E.R., LeBlanc, R., Kline, N.J., Bliss, E.A., and Schmidt, T.J. (2015). Central actions of serotonin across the life span of *Aplysia*: Implications for development and learning. In H. Koike, Y. Kidokoro, K. Takahashi, and T. Kanaseki (Eds.), Basic Neuroscience in Invertebrates (pp. 249-265). Tokyo: Japan Scientific Societies Press.

Kline, N.J., Bliss, E.A., **Joseph, E.R.**, and Schmidt, T.J. (2015). Differential modulatory actions of serotonin in *Aplysia* sensory neurons: Implications for development and learning. *Seminars in Neuroscience*. 9:21-33.

PEER-REVIEWED PUBLICATIONS

Joseph, E.R. and Shen, Y.X. (2019). Two-stage, input-specific synaptic maturation in a nucleus essential for vocal production in the zebra finch. *Journal of Neuroscience*. 22:9107-9116.

Joseph, E.R. and Schmidt, T.J. (2018). Developmental dissociation of serotonin-induced spike broadening and synaptic facilitation in *Aplysia* sensory neurons. *Journal of Neuroscience*. 21:334-346.

Joseph, E.R., Chang, A.R., Kline, N.J., and Schmidt, T.J. (2016). Pharmacological and kinetic characterization of two functional classes of serotonergic modulation in *Aplysia* sensory neurons. *Journal of Neurophysiology*. 78:855-866.

Smythe, M.I., Vaidya, A.F., **Joseph, E.R.**, Belema, J.F., and Denny, K.M. (2009). Fetal expression of renin, angiotensinogen, and atriopeptin genes in chick heart. *Journal of Clinical and Experimental Hypertension*. A15: 617-629.

REFERENCES

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