

# LINDSEY D. SALAY

## CONTACT INFORMATION

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## EDUCATION

**Stanford University**  
**Ph.D.**, Neuroscience, 2019 (expected)

**University of Miami**  
**B.S.**, Neurobiology, 2014

## RESEARCH EXPERIENCE

**Graduate Student** (2016- present)  
Neurosciences, Department of Neurobiology, Stanford University  
Advisor: Andrew D. Huberman, Ph.D.  
Ph.D. Thesis: *Neural circuits underlying visual threat responses*

**Graduate Student** (*transferred*) (2014- 2016)  
Biological Sciences, Department of Neurobiology, University of California San Diego  
Advisor: Andrew D. Huberman, Ph.D.

**Undergraduate Research Assistant** (2011- 2014)  
Miami Project to Cure Paralysis, University of Miami Miller School of Medicine  
Advisors: Vance Lemmon, Ph.D. and John Bixby, Ph.D.  
Senior Honors Thesis: *The role of p70 and p90 S6 Kinases in Regulating Neurite Growth*

**High School/Undergraduate Research Assistant** (2009- 2011)  
Department of Physiology and Biophysics, State University of New York - Stony Brook  
Advisor: Irene C. Solomon, Ph.D.  
*Neural control of breathing: identifying unusual gasping patterns in neonatal rats*

## HONORS AND AWARDS

NSF Graduate Research Fellowship (2014-2019)  
Sammy Kuo Award in Neuroscience (2018)  
Helmsley Charitable Trust Travel Award (2015)  
Departmental Honors in Neuroscience - Senior Honors Thesis (2014)

*Magna Cum Laude* – Graduation with Honors (2014)  
Aqua Foundation for Women Scholarship (2014)  
Lois Pope Neuroscience Research Fellowship (2013)  
LGBTQ Studies Scholarship (2013)  
Dickinson Scholarship (2010)

## **PUBLICATIONS**

**Salay LD**, Ishiko N, Huberman AD (2018) A midline thalamic circuit determines reactions to visual threat. *Nature*, 557: 183-189. [Article][& featured in News and Views]

**Salay LD**, Jung H-Y, Huberman AD (2018) Merging sensory perception with internal states to guide action. *Neuron*, *formally invited review*.

**Salay LD**, Huberman, AD (2015) When Visual Circuits Collide: Motion Processing in the Brain. *Cell*, (Preview) 162: 241-243.

Slepak TI, **Salay LD**, Lemmon VP, Bixby JL (2012) Dyrk kinases regulate phosphorylation of doublecortin, cytoskeletal organization, and neuronal morphology. *Cytoskeleton*, 69: 514–527.

## **PRESENTATIONS**

**Salay LD**, Huberman, AD (2017) A thalamo-cortical circuit that determines the behavioral response to visual threat. Talk presented at the neurobiology lab evening, Stanford University.

**Salay LD**, Huberman, AD (2017) Fear versus courage: dissecting responses to perceived threat. Talk presented at the neurobiology seminar, Stanford University.

**Salay LD**, Ishiko N, Huberman, AD (2017) Defining the neural circuits that provide emotional significance to what we see. Poster presented at the Max Planck Sunposium, West Palm Beach, FL.

**Salay LD**, Ishiko N, Nguyen PL, Yaghoub E, Huberman, AD (2016) Defining the neural circuits that provide emotional significance to what we see. Poster presented at the Society for Neuroscience meeting, San Diego, CA.

**Salay LD**, Al-Ali H, Lemmon VP, Bixby JL (2014) Knockdown of p70 and p90 S6 kinase in regulating neurite growth. Poster presented at the Research, Creativity, & Innovation Forum, Miami, FL.

**Salay LD**, Slepak TI, Lemmon VP, Bixby JL (2011) DYRK family kinases regulate neuronal morphology by affecting the phosphorylation status of doublecortin. Poster presented at The Miami Project Summer Research Symposium, Miami, FL.

**Salay LD, Reid IM, Solomon IC (2011)** Prolongation of the expiratory pause following unusual gasp events in urethane-anesthetized neonatal rats. Poster presented at the Society for Neuroscience meeting, San Diego, CA.

**Salay LD, Reid IM, Solomon IC (2010)** Unusual gasping patterns in neonatal rats. Talk presented at “Hot Topics for EB 2010” in respiratory control at the Experimental Biology meeting, Anaheim, CA.

**Salay LD, Reid IM, Solomon IC (2010)** Inspiratory neural network complexity of unusual gasping patterns in urethane-anesthetized neonatal rats. Poster presented at the Experimental Biology meeting, Anaheim, CA.

### **TEACHING EXPERIENCE**

1. Teaching Assistant, *Vision: A Platform for Linking Circuits, Perception & Behavior*, Cold Spring Harbor Laboratory (2017, 2019)

2. Teaching Assistant, *Diversity and Inclusion in Science*, Graduate Student Course, Stanford University (2018)

3. Taught high school girls about neuroscience research at the Miss CEO outreach program, Stanford University (2018)

4. Designed and taught the following class for the Splash! Stanford high school outreach program: *The biology of sex/gender* (Spring 2017, Fall 2017)

5. Research mentor for undergraduate student: Edmund Yaghoubian, UCSD '16

### **MANUSCRIPT REVIEW**

Ad Hoc Reviewer: Cell, Neuron, Current Biology

### **PROFESSIONAL MEMBERSHIPS**

Society for Neuroscience (2010 –present)