

**Ari Morcos**  
**arimorcos@fas.harvard.edu**  
**www.arimorcos.com**

125 Park Dr., Apt. 41  
Boston, MA 02215  
(818) 481-9555

Department of Neurobiology  
200 Longwood Ave.  
Armenise 417A  
Boston, MA 02115

## **EDUCATION**

<b>Harvard University</b> Ph.D. Candidate in Program in Neuroscience Harvey Lab	<b>2011 — Present</b>
<b>University of California, San Diego</b> B.S., Physiology and Neuroscience Major GPA: 3.54	<b>2008 — 2011</b>

## **RESEARCH EXPERIENCE**

### **Ph.D. Research**

<b>Harvard Medical School, Laboratory of Dr. Christopher Harvey</b> Investigating the neuronal circuit mechanisms underlying evidence accumulation for decision-making in the Posterior Parietal Cortex (PPC) using a combination of advanced behavioral techniques, two-photon microscopy, and a variety of data analytic approaches.	<b>2012 – Present</b>
---	-----------------------

### **Graduate Rotation Projects**

<b>Harvard Medical School, Laboratory of Dr. Richard Born</b> Developed a novel psychophysical task to examine the neuronal representation of ambiguous stimuli in the visual cortex of rhesus macaque.	<b>2012</b>
--	-------------

<b>Harvard Medical School, Laboratory of Dr. Rachel Wilson</b> Developed a novel conditioned behavioral paradigm to measure the limits of sound localization in <i>Drosophila</i> , with the ultimate goal of using a combination of behavior and single-cell electrophysiology to understand the basic principles underlying early sensory processing.	<b>2011</b>
--	-------------

<b>Harvard Medical School, Laboratory of Dr. Bernardo Sabatini</b> Investigated the role of somatostatin-expressing interneurons in mammalian striatal circuitry during a simple behavioral task using a combination of optogenetics and multi-electrode electrophysiology.	<b>2011</b>
--	-------------

### **Undergraduate Research**

<b>Salk Institute for Biological Studies</b> Laboratory of Fred H. Gage Research Assistant Researched the role of REST in adult neurogenesis	<b>01/2009 – 12/2010</b>
---	--------------------------

## **AWARDS, HONORS, AND FELLOWSHIPS**

<b>Stuart and Victoria Quan Pre-Doctoral Fellowship</b> Department of Neurobiology, Harvard Medical School	<b>2013—Present</b>
<b>NSF Graduate Research Fellowship Honorable Mention</b>	<b>2013</b>

**Amylin Pharmaceuticals Research Scholar**

**2009—2010**

**Howard Hughes Summer Research Fellow**

**2009**

**Alliance for Affordable Services Scholar**

**2009**

## **PUBLICATIONS AND PRESENTATIONS**

**Morcos AS**, Harvey CD. "Highways of parietal cortex activity states reveal structured microcircuit dynamics on single trials." Manuscript in preparation.

Kagalwala MN, Deni AM, Kim HJ, Wright R, Baul TD, Clemenson, GD, **Morcos AS**, Zhao C, Gage FH. "Secretogranin II regulates differentiation and maturation of neurons during adult neurogenesis." Manuscript in preparation.

**Morcos AS**, Kagalwala MN, Denli AM, Gage FH. "The role of REST/NRSF in adult neurogenesis." Program No. 31.4. 2010 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2010. Online.

**Morcos AS**. "Understanding the Protein-Protein Interplay of NRSF (REST) In Regulating Transcription." UCSD Undergraduate Research Conference, San Diego, CA, 2009.

**Morcos AS**. "Mechanisms and applications of adult neurogenesis." *Saltman Quarterly* 6 (2009): 35-36.

## **TEACHING EXPERIENCE**

**Harvard Medical School**

**2012**

Teaching assistant, MATLAB/Quantitative Methods Bootcamp

Brief introduction to MATLAB/programming and statistics for incoming graduate students

## **RELEVANT ONLINE COURSEWORK**

Machine Learning, Stanford via Coursera

2014

Mining Massive Datasets, Stanford via Coursera

2014

Algorithms: Design and Analysis, Part I, Stanford via Coursera

2014

Databases, Stanford Online

2015

Intro to Theoretical Computer Science, Udacity

2015

Introduction to Big Data with Apache Spark, Berkeley via edX

2015

## **REFERENCES**

Available upon request.