Kim Scott

CONTACT INFORMATION	Bldg 46-4009	(626) 316-2405
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EDUCATION

Massachusetts Institute of Technology, Cambridge, MA
Ph.D., Brain and Cognitive Sciences **exp. 2017**
Advisor: Laura Schulz

California Institute of Technology, Pasadena, CA
B.S.Eng., Computation and Neural Systems **2010**

HONORS AND AWARDS

American Association of University Women dissertation fellowship	**AY 2016-2017**
Angus MacDonald Award for Excellence in Undergraduate Teaching, MIT	**2013, 2015**
National Science Foundation Graduate Research Fellowship	**2013-2016**
Ida M. Green Fellowship, MIT	**2011-2012**
Finalist, Perpall Speaking Competition, Caltech	**2009**
3rd place, Perpall Speaking Competition, Caltech	**2008**
Axline scholar (full merit scholarship), Caltech	**2006-2010**
Lingle scholar (additional merit scholarship), Caltech	**2006-2010**
10th place nationally, Intel Science Talent Search	**2006**

TECHNICAL SKILLS

Proficient in MATLAB (PsychToolbox), python, JavaScript (jQuery), CSS, HTML

Some use of R, PHP, MongoDB, ActionScript, Ember, ffmpeg, OS X and Windows bash scripting, LaTeX, OpenBUGS, Lisp

TEACHING EXPERIENCE

Massachusetts Institute of Technology, Cambridge, MA

Students supervised

Jessica Zhu, MIT (Fall 2016)	Tracy Sorto, MIT (Spring 2014)
Audrey Ricks, MIT (Summer 2016)	Shirin Shivaei, MIT (IAP 2014, Spring 2014)
Joseph Alvarez, Skidmore (Summer 2015)	Katy Hanling, MIT (IAP Spring, Summer, Fall 2014; Spring, Fall 2015; IAP, Spring 2016)
Junyi Chu, Vanderbilt (Summer 2015)	
Daniela Carrasco, MIT (Spring 2015)	Vivienne Wang, Wellesley College (Spring 2013, Summer 2013, Fall 2013)
Hope Fuller-Becker, Wellesley (Spring 2015, Spring 2016)	
	(Nia) Da Sul Jin, MIT (Fall 2013)
Rianna Shah, MIT (IAP, Spring, Fall 2015; IAP, Spring 2016)	Chloe Joray, high school student at MIT's Research Science Institute (Summer 2013)
Annie (DingRan) Dai, MIT (IAP, Spring 2015)	Alice Lu, MIT (IAP 2013, Spring 2013)
Jean Yu, Wellesley (IAP, Spring 2015)	Jessica Wass, MIT (Fall 2012, Spring 2013)
Jean Chow, MIT (Fall 2014)	Susie Lee, Wheaton College (Summer 2012)
Scout Brisson, MIT (Fall 2014)	Cindy Zhao, high school student at MIT's Research Science Institute (Summer 2012)
Jasmine Gums, Wellesley (Fall 2014)	

Teaching assistant	9.46: Neuroscience of Morality	**Fall 2014**

Office hours and individual help with writing; taught classes on moral development and self-control.

Instructor	9.S93: Try this at home!	**January 2014**

Created and taught a project-based class in which students created videos about research in cognitive development that demonstrated "at home labs" for parents to try with their kids.

Instructor	9.S93: Baby webcam	**January 2013**

Created and taught a project-based class on a new system for running developmental experiments online. Each student adapted an existing experiment for replication using an online system for data collection in development.

Teaching assistant	9.85: Infant Cognition	**Fall 2012, Fall 2013**

Grading, office hours; lectures on language acquisition.

California Institute of Technology, Pasadena, CA

Lead instructor	LEAD program	**Summer 2011**

Worked with four instructors to design and teach neuroscience curriculum for summer program for talented underrepresented high school students.

Teaching assistant	YESS program	**Summer 2010**

Graded daily homework, helped with elecrophysiology experiments, and led an independent project in machine learning for a neuroscience class as part of a summer science program for talented underrepresented high school students.

Teaching assistant	Introduction to Computer Science	**Fall 2007, 2008, 2009**

Held lab hours and graded problem sets for Caltech's introductory computer science course, emphasizing formal program evaluation. (Taught in Scheme in 2007, Python in 2008 and 2009)

RESEARCH
EXPERIENCE

Massachusetts Institute of Technology, Cambridge, MA

Graduate student	**Fall 2011 - present**

Research on the structure and development of early conscious experience; developed an online system to allow parents to participate in developmental research from home: `https://lookit.mit.edu`

California Institute of Technology, Pasadena

Research assistant, Lester lab	**July 2010 - July 2011**

Developed spike sorting software in MATLAB for use on long-term microelectrode recordings in behaving mice. Designed statistical methods to characterize quality of recordings from new 64-channel neural probes and sources of variation in signals.

Amgen scholar, Lester lab	**Summer 2009**

Developed method to segregate pixels of fluorescence resonance energy transfer (FRET) images based on probable similarity of stoichiometric composition.

Richter scholar, Lester lab	**Summer 2008**

Investigated the effect of nicotine on neuronal firing patterns in subthalamic nucleus by analyzing electrophysiological data from human Parkinsons patients undergoing implantation of stimulating electrodes.

PUBLICATIONS   Scott, K. M. and Schulz, L. E. (in press). *Lookit: a new online platform for developmental research.* Open Mind.

Scott, K. M., Chu, J., and Schulz, L. E. (in press). *Assessing the viability of online developmental research: Results from three case studies.* Open Mind.

Scott, K. M., Du, J., Lester, H. A., and Masmanidis, S. C. (2012). *Variability of extracellular action potential measurements with silicon neural probes.* J Neurosci Meth 211(1): 22-30.

Moss, F. J., Imoukhuede, P. I., Scott, K., Hu, J., Jankowsky, J. L., Quick, M. W., and Lester, H. A. (2009). *GABA transporter function, oligomerization state, and anchoring: correlates with subcellularly resolved FRET.* J Gen Physiol 134(6):489-521.

CONFERENCE PRESENTATIONS

Scott, K.M. & Schulz, L.E. (2015, March). *Moving the lab home: validation of a web-based system for developmental studies.* In symposium: Big data, little kids: Findings from novel large datasets in developmental psychology. Presentation at the biennial meeting of the Society for Research in Child Development, Philadelphia, PA.

Scott, K.M. & Schulz, L.E. (2014, July). *Interhemispheric integration of visual concepts in infancy.* Paper presented at the annual meeting of the Cognitive Science Society, Quebec City, Canada. `https://mindmodeling.org/cogsci2014/papers/245/paper245.pdf`

Scott, K.M., Spelke, E., and Schulz, L.E. (2014, April). *Interhemispheric Integration in Infancy: Split-Brain Babies?* Presentation at Towards a Science of Consciousness, Tuscon, AZ.