

# SHRADDHA SHAH

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## EDUCATION

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**University of Rochester Medical Center** 2016 - Present

PhD Candidate, Neuroscience Graduate Program

**University of Rochester Medical Center** 2018

Master of Science, Neuroscience

**Thayer School of Engineering, Dartmouth College** 2013

Master of Engineering Management

**Sardar Patel Institute of Technology, University of Mumbai** 2011

Bachelor of Engineering, Electronics Engineering

*Summer courses attended*

Vision: A Platform for Linking Circuits, Behavior and Perception, Cold Spring Harbor Laboratory  
(June 2019)

## HONORS AND AWARDS

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Helmsley Scholar, summer course in Vision at Cold Spring Harbor Laboratory 2018 - 2019

Fields Institute Travel Award to attend Fields/VISTA Mathematics of Vision workshop 2019

Schmitt Program in Integrative Neuroscience Travel Award 2018

Abraham Fellowship, Thayer School of Engineering 2011 - 2012

Global Engagement Summit Delegate, Thayer School of Engineering 2012

JRD Tata Trust Scholarship, University of Mumbai 2009 - 2010

Sir Dorabji Tata Trust Education Grant, University of Mumbai 2008 - 2009

## RESEARCH EXPERIENCE

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**Dissertation Research** 2019 - present

*Adviser: Farran Briggs, PhD*

Research Topic: Neural mechanisms of visual attention in the early visual system

**Masters' Research** 2016 - 2019

*Adviser: Lizabeth M. Romanski, PhD*

Research Topic: Memory and integration of faces and vocalizations in the primate prefrontal cortex:  
functional organization and neural mechanisms

**Research Experience** 2015 - 2016

*Adviser: Benjamin Y. Hayden, PhD*

Research: Designed task for studying foraging behaviour in macaques, analyzed single-unit electrophysiology data in economic decision making tasks recorded from multiple regions of the primate prefrontal cortex

## Research Experience

2014 - 2015

*Adviser: Celeste Kidd, PhD*

Research: Designed and ran a touchscreen experiment to study curiosity and information seeking behaviour in kids (ages 3-8 years) using KELPY (Kid Experimental Library in Python)

## Undergraduate Capstone Project

2010 - 2011

*Adviser: Sanjay Gandhe, PhD*

Research: Implemented a real-time gesture recognition algorithm on an ARM processor based embedded systems platform

## TALKS

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Department of Brain and Cognitive Sciences Lunch Talk, “Attentional modulation of multiunit activity in LGN and V1” (January 28, 2020)

Invited talk, “A conceptual overview of systems neuroscience research: functional organization and neural mechanisms” at Eternal University, India (April 19, 2019)

Invited Poster Teaser Talk, “Inactivation of primate dorsolateral prefrontal cortex during auditory working memory”, Annual Neuroscience Retreat, University of Rochester School of Medicine and Dentistry (2017)

## ABSTRACTS, PRESENTATIONS

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**S. Shah\***, M. Mancarella, J. R. Hembrook-Short, V. Mock, F. Briggs (2020) Attentional modulation of multiunit activity leads to facilitation of firing rates in V1, but not in LGN, [poster presentation](#), Center for Visual Science Annual Retreat, University of Rochester

**S. Shah\***, T. Lincoln, K. Kevelson, L. M. Romanski (2018) Memory and integration of faces and vocalizations in neuronal populations in the primate prefrontal cortex, [poster presentation](#), Society for Neuroscience

**S. Shah\***, T. Lincoln, K. Kevelson, L. M. Romanski (2018) Memory and integration of faces and vocalizations in neuronal populations in the primate prefrontal cortex, [poster presentation](#), Advances and Perspectives in Auditory Neuroscience

**S. Shah\***, B. Plakke, T. Lincoln, K. Kevelson, J. Bigelow, L. M. Romanski (2018) Effects of prefrontal lesions on auditory working memory, [poster presentation](#), Annual Neuroscience Retreat, University of Rochester School of Medicine and Dentistry

**S. Shah\***, B. Plakke, T. Lincoln, K. Kevelson, J. Bigelow, L. M. Romanski (2017) Inactivation of primate dorsolateral prefrontal cortex during auditory and visual working memory, [poster presentation](#), Society for Neuroscience

**S. Shah\***, B. Plakke, T. Lincoln, K. Kevelson, J. Bigelow, L. M. Romanski (2017) Inactivation of primate dorsolateral prefrontal cortex during auditory and visual working memory, [poster presentation](#), Advances and Perspectives in Auditory Neuroscience

L.M. Romanski\*, J. Hwang, **S. Shah**, B. Plakke (2017) Responses of prefrontal neurons during enhancement of auditory discrimination with face distractors in nonhuman primates, [poster presentation](#), International Multisensory Research Forum

L.M. Romanski\*, B. Plakke, T. Lincoln, **S. Shah**, A. Poremba, J. Bigelow (2016) Inactivation of primate dorsolateral prefrontal cortex during auditory working memory, [poster presentation](#), Society for Neuroscience

\* presenting author

## TEACHING EXPERIENCE

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- Graduate Teaching Assistant: Introduction to Computational Neuroscience, University of Rochester Medical Center (Summer 2020)
- Graduate Teaching Assistant: NSC 241 Neurons, Circuits, and Systems, University of Rochester (Fall 2019)
- Graduate Teaching Assistant: BCS 110 Neural Foundations of Behavior, University of Rochester (Spring 2016)
- Graduate Teaching Assistant: ENGS 1/9 Everyday Technology, Dartmouth College (2011)
- Graduate Teaching Assistant: MATLAB Lab, Dartmouth College (2011-12)

## SCIENCE COMMUNICATION

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- Writing a blog titled "[Theory and Interdisciplinarity in Neuroscience](#)" on Society for Neuroscience's Neuronline platform (April 2019 - present)
- Participant in science writing workshop "Making Connections: How Scientists Can Write About Science for the Rest of the World" conducted by Julie Sedivy, University of Rochester (November 7-8, 2019)
- Gave a talk to introduce high school students to Systems Neuroscience research through the Science and Technology Entry Program (STEP) - UP TO MEDICINE program at the University of Rochester School of Medicine and Dentistry (December 2017)

## SERVICE

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- Selected to be part of Society for Neuroscience's Neuronline Community Leaders program (member of 20 selected Community Leaders, 2018 - present)
- Student member, University of Rochester Women In Science group
- Led Systems Neuroscience journal club for incoming graduate students during the Neuroscience Graduate Program Bootcamp (August 2017, August 2018, August 2019)
- Student mentor for first year graduate students in the Neuroscience Graduate Program (2017 - 2018, 2018 - 2019)
- Participant in Skype-a-Scientist, 2018 - present
- Participated in the Brain Awareness week 2016 and 2018; visited a local elementary school to teach kids about motor learning and adaptation
- Taught Science, Mathematics, and English (as a second language) to grade 1-5 kids at an orphanage Daya Vihar, Mumbai, India (2009 - 2011)