

# MAYANK AGRAWAL

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## EDUCATION

### Princeton University

August 2018 - *Present*

Ph.D. Psychology and Neuroscience

Advisor: Jonathan D. Cohen and Thomas L. Griffiths

### Swarthmore College

August 2014 - May 2018

B.A. Computer Science and Philosophy

Thesis: *An Application of Computational Learning Theory to Moral Epistemology*

Advisor: Alan R. Baker

## PUBLICATIONS

**Agrawal M**, Peterson JC, Griffiths TL. (Submitted). Scaling up Psychology via Scientific Regret Minimization: A Case Study in Moral Decision-Making.

**Agrawal M**, Mattar MG, Daw ND, Cohen JD. (2019). Rational Arbitration of Hippocampal Replay. *2019 Conference on Cognitive Computational Neuroscience*.

**Agrawal M**, Peterson JC, Griffiths TL. (2019). Using Machine Learning to Guide Cognitive Modeling: A Case Study in Moral Reasoning. *Proceedings of the 41st Annual Conference of the Cognitive Society*.

Morad, EM, Tinkhauser G, **Agrawal M**, Brown P, Bogacz R. (2018). Predicting Beta Bursts From Local Field Potentials to Improve Closed-loop DBS Paradigms in Parkinson's Patients. *40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society*.

## TEACHING

### Princeton Neuroscience Institute

Summer 2019      Introduction to Python, *Instructor*

### Swarthmore College

Fall 2017      PHIL 012: Logic, *Teaching Assistant*

Spring 2015      CPSC 021: Introduction to Computer Science, *Teaching Assistant*

### Breakthrough Houston

Summer 2014      8th Grade Math, *Teaching Fellow*

Summer 2013      7th Grade Math, *Teaching Fellow*

Summer 2012      7th - 9th Grade Literature, *Teaching Assistant*

## HONORS & AWARDS

2019      National Defense Science & Engineering Graduate Fellowship

2019      Center for Brains, Minds & Machines Summer School

2017      Computational Neuroscience Travel Grant, *Swarthmore College*

2016      John W. Nason Community Service Fellowship, *Swarthmore College*

2014      Philip Evans Scholar, *Swarthmore College*

## SERVICE

### External Reviewer

2019      NeurIPS Workshop on Shared Visual Representations in Human & Machine Intelligence

**Internal**

2017 - 2018      Aydelotte Foundation, *Swarthmore College*  
2017 - 2018      Council on Educational Policy, *Swarthmore College*  
2015 - 2016      Student Academic Mentor, *Swarthmore College*

**TECHNICAL SKILLS**

**Computer Languages**      Python, C++/C, Java, MATLAB, R, JavaScript  
**Tools**                      L<sup>A</sup>T<sub>E</sub>X, Unix, git, OpenCV, MPI, Android Studio, CUDA, Mechanical Turk

Last Updated: August 26, 2019