

# Amrita Lamba

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## Academic Appointments

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### Simons Postdoctoral Fellow

2023-2025 (anticipated)

MIT Brain & Cognitive Sciences & Simons Center for the Social Brain

Supervisor: Dr. Rebecca Saxe

## Education

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### Ph.D. in Cognitive Science, Brown University

2017—2023

Supervisors: Drs. Oriel FeldmanHall & Michael J. Frank

### M.A. in Psychology, College of William & Mary

2015—2017

Supervisor: Dr. Joanna Schug

### B.Sc. Psychology & Neuroscience, University of Toronto

2010—2014

Graduated with Honors and Distinction

## Peer-Reviewed Publications

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**Lamba, A.**, Nassar, M.R., FeldmanHall, O. (2023). Prefrontal cortex state representations shape human credit assignment. *eLife*.

**Lamba, A.**, FeldmanHall, O. (2022). Using social learning algorithms to weigh competing moral motivations. Book Chapter in *Motivation & Morality: A Biopsychosocial Approach*.

**Lamba, A.**, Frank, M. J., FeldmanHall, O. (2020). Anxiety impedes adaptive social learning under uncertainty. *Psychological Science*.

## Manuscripts in Preparation

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**Lamba, A.**, Frank, M.J., FeldmanHall, O. (2023). Anxiety impacts adaptively resolving policy and epistemic uncertainty in dynamic social environments.

**Lamba, A.**, Nassar, M.R., FeldmanHall, O. (2023). Dissociable contributions of prefrontal and control networks on credit assignment in adolescents.

## Invited Presentations

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Computational Psychiatry Conference, Dublin, Ireland. (*poster spotlight*)

July 2023

Social Cognitive Neuroscience Lab at MIT. (Saxe Lab)

Feb, 2023

Affective Neuroscience Lab at Harvard University. (Somerville Lab)

Nov, 2022

The Morality Lab at Boston College. (Young Lab)

March, 2021

New England Research in Decision-Making at Harvard University.

June, 2018

## Conference Presentations & Extended Abstracts

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**Lamba, A.,** Frank, M.J., FeldmanHall, O. In dynamic social environments humans adaptively switch between reducing policy and epistemic uncertainty. Computational Cognitive Neuroscience Conference (2023). Oxford, UK, Poster Presentation.

**Lamba, A.,** Nassar, M.R., FeldmanHall, O. Shared representational geometry across the frontoparietal network supports credit assignment during social learning. Reinforcement Learning and Decision-Making Conference (2022). Providence, RI, Poster Presentation.

**Lamba, A.,** Nassar, M.R., FeldmanHall, O. Shared representational geometry across the frontoparietal network supports credit assignment during social learning. Cognitive Neuroscience Society (2022). San Francisco, CA, Oral & Poster Presentation.

**Lamba, A.,** Frank, M.J., FeldmanHall, O. Blunted pupil-linked arousal predicts reduced social learning in anxious individuals. Winter Conference on Brain Research. Snowmass, Colorado. (2022). Oral Presentation & Symposium Co-chair.

**Lamba, A.,** Nassar, M.R., FeldmanHall, O. Amygdala-dependent reward prediction errors selectively guide social learning under uncertainty. Cognitive Neuroscience Society (2021). *Virtual*. Oral & Poster Presentation.

**Lamba, A.,** Frank, M.J., FeldmanHall, O. Social uncertainty uniquely enhances dynamic learning and adaptive decision-making. Conference on Cognitive Computational Neuroscience (2019). Berlin, Germany, Poster Presentation.

**Lamba, A.,** Frank, M.J., FeldmanHall, O. Anxiety impedes adaptive social learning under uncertainty. The Multi-disciplinary Conference on Reinforcement Learning and Decision Making (2019). Montreal, Canada, Poster Presentation.

**Lamba, A.,** Schug, J., McCauley, T. Simulating cooperative dynamics on static networks with stochastic modeling. Human Behavior and Evolution Society (2016), Vancouver, Canada. Poster Presentation.

## Relevant Course Work

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Bayesian and Structural Econometrics, Bayesian Statistical Methods, Computational Probability and Statistics, Structural Equation Modeling, Multivariate Statistics, Advances Statistics, Introductory Statistics, Functional Magnetic Resonance Imaging Methods, Computational Cognitive Neuroscience (Intro to Neural Network Modeling), Clinical Psychology, Psychopharmacology, Neural Computation in Learning and Decision-Making

## Teaching

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Social Psychology, TA, Brown University	2019
Neuroeconomics, Course Instructor, Summer at Brown	2019
Making Decisions, TA, Brown University	2019
Elementary Statistics, TA, Brown University	2018
Advanced Graduate Statistics, TA, William & Mary	2016—2017
Elementary Statistics, TA, William & Mary	2016

## Grants, Fellowships, & Academic Honors

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Simons Postdoctoral Fellowship, MIT (\$75 0000)	2023-2024
Carney Graduate Award in Brain Science, Brown University (\$60 000)	2022-2023
William and Mary Recruitment Fellowship Grant, \$4,000	2015
Dean's List Honor, University of Toronto.	2014
Excellence Award in Natural Sciences and Engineering (NSERC), \$5,625	2013
University of Toronto President's Entrance Scholarship, \$2,000	2010

## Departmental Service

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Michael S. Goodman Seminar Series Organizer, Brown University	2019—2021
Climate and Diversity Committee, Brown University CLPS Dept.	2019—2021
Graduate Student Representative, Brown University CLPS Dept.	2018—2019
Diversity Committee, W&M Psychology Dept.	2017
Underrepresented Student Counselor, W&M Psychology Dept.	2016—2017
Graduate Research Symposium Organizing Committee, W&M.	2016—2017

## Mentorship

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Hugo Snijders, MA Rotation Student	2021—2022
Current Position: Psychology Ph.D. at Radboud University	
Eric Ingram, Undergraduate Teaching & Research Award Recipient	2018—2021
Current Position: Clinical Psych. Ph.D. at U. Kentucky	

## Ad Hoc Reviewer

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Journal of Experimental Psychology: General  
Journal of Experimental Psychology: Human Perception and Performance  
Proceedings of the National Academy of Sciences  
Nature Communications  
Developmental Cognitive Neuroscience