Aviva Prins

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Education

Current **Ph.D. in Computer Science**, *University of Maryland, College Park (UMD)*.
Advisors: Dr. John P. Dickerson and Prof. Aravind Srinivasan

2019 - 2021 **M.Sc. in Computer Science**, *UMD*.

2016 - 2019 **B.Sc. in Applied Mathematics**, *University of California, Los Angeles (UCLA)*.
Specialization in Computing

Experience

Summer 2020 **Center for Research on Computation and Society (CRCS)**, *Harvard University*.
Advisors: Prof. Milind Tambe and Dr. Rediet Abebe.

Summer 2019 **Research in Industrial Projects for Students (RIPS)**, *UCLA*.
Co-sponsored by UCLA's Institute for Pure and Applied Mathematics (IPAM) and Google LA.

2018 - 2019 **Undergraduate Research**, *UCLA*.
Advisor: Prof. Mason A. Porter

2017 - 2019 **Undergraduate Research**, *UCLA*.
Advisor: Prof. Andrea L. Bertozzi

Summer 2016 - 2018 **Research Experience for Undergraduates (REU)**, *UCLA*.
Advisor: Prof. Andrea L. Bertozzi

Publications

*Denotes equal contribution.

Preprints

Preprint **Aviva Prins**, Aravind Srinivasan, John P. Dickerson.
Non-stationary Probabilistic Policies for Resource Constrained Restless Multi-Armed Bandits.

Preprint Christine Herlihy*, **Aviva Prins***, Aravind Srinivasan, John P. Dickerson.
Planning to Fairly Allocate: Probabilistic Fairness in the Restless Bandit Setting.

Journal Papers

AJUR 2019 Dominic Diaz*, Jessica Bojorquez*, Josh Crasto*, Margaret Koulikova*, Tameez Latib*, **Aviva Prins***, Andrew Shapiro*, Clover Ye*, David Arnold, Claudia Falcon, Michael R. Lindstrom, and Andrea L. Bertozzi.
Investigation of Constant Volume and Constant Flux Initial Conditions on Bidensity Particle-Laden Slurries on an Incline. *American Journal of Undergraduate Research (AJUR) 2019*. doi.org/10.33697/ajur.2019.029

Workshop Papers

NeurIPS 2020 **Aviva Prins**, Aditya Mate, Jackson Killian, Rediet Abebe, and Milind Tambe. Incorporating Healthcare Motivated Constraints in Restless Multi-Armed Bandit Based Resource Allocation, *Workshop on The Challenges of Real World Reinforcement Learning (RWRL), NeurIPS 2020, Vancouver, Canada.*

NeurIPS 2020 **Aviva Prins**, Aditya Mate, Jackson Killian, Rediet Abebe, and Milind Tambe. Incorporating Healthcare Motivated Constraints in Restless Multi-Armed Bandit Based Resource Allocation, *Workshop on Machine Learning for the Developing World (ML4D), NeurIPS 2020, Vancouver, Canada.*

NeurIPS 2020 **Aviva Prins**, Aditya Mate, Jackson Killian, Rediet Abebe, and Milind Tambe. Incorporating Healthcare Motivated Constraints in Restless Multi-Armed Bandit Based Resource Allocation, *Workshop on Machine Learning for Health (ML4H), NeurIPS 2020, Vancouver, Canada.*
Best Thematic Submission

NeurIPS 2020 **Aviva Prins**, Aditya Mate, Jackson Killian, Rediet Abebe, and Milind Tambe. Incorporating Healthcare Motivated Constraints in Restless Multi-Armed Bandit Based Resource Allocation, *Workshop on Machine Learning for Public Health (MLPH), NeurIPS 2020, Vancouver, Canada.*
Best Lightning Paper

JMM 2020 Sarika Aggarwal*, Miguel Fuentes*, Shreya Gupta*, and **Aviva Prins***. Risk Assesments and Measurements of Privacy Leaks within Google's Ads Data Hub, *Joint Mathematics Meetings, Denver, Colorado.*
Outstanding Poster

Teaching

2019 - 2020 **Teaching Assistant**, *University of Maryland*.
- CMSC 320: Introduction to Data Science
- CMSC 420: Introduction to Artificial Intelligence

2014 - 2019 **Math Tutor**, *Los Angeles*.

2017 - 2018 **Building Engineers and Mentors (BEAM)**, *UCLA*.

2015 - 2016 **Environmental Education Intern**, *Audubon Society*.

Programming Languages

Proficient in Python and MATLAB. Intermediate in R. Exposed to C++.

Service

Reviewer Conference on Artificial Intelligence and Statistics (AISTATS), 2021
Machine Learning for Health Symposium (ML4H), 2021
Cooperative AI (CoopAI) NeurIPS Workshop, 2020

UMD Graduate Student Seating Committee Member