

ANNA L. TRELLA

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annatrella.github.io

INTERESTS	Theoretical and applied aspects of online reinforcement learning and Bayesian machine learning
EDUCATION	Ph.D. Computer Science, Harvard University 2020 - Present GPA 4.0. Jointly advised by Professors Finale Doshi-Velez and Susan A. Murphy. Coursework on Bayesian machine learning, reinforcement learning, interpretable and explainable machine learning, probability. B.A. Applied Mathematics, University of California, Berkeley 2014 - 2018 GPA 3.71. Coursework on machine learning, artificial intelligence, algorithms & theory, linear algebra, numerical analysis, etc.
EXPERIENCE	Research Scientist Intern (Data Science & Machine Learning), Etsy Summer 2021 Technical Lead: Software Development Engineer, Amazon 2018 - 2020
AWARDS	Derek Bok Certificate of Distinction in Teaching, Harvard University. 2022 RLDM Student Travel Fellowship, Brown University. 2022 EECS Outstanding Graduate Student Instructor Award, UC Berkeley. 2018 Dean's Honors List, UC Berkeley. 2016
TEACHING	Graduate Teaching Fellow, Harvard University CS 181, Machine Learning. 2022 (4.95/5.00 on student evaluations) Teaching Assistant, University of California, Berkeley CS 61C, Machine Structures. 2017, 2018 (4.91/5.00 on student evaluations)
SKILLS	Python, Pytorch, NumPy, Git, PyMC3, Java, Amazon Web Services (AWS), Xcode, React Native, Objective-C, JavaScript, Kotlin

PUBLICATIONS	<p>Anna L. Trella, Kelly W. Zhang, Inbal Nahum-Shani, Vivek Shetty, Finale Doshi-Velez, Susan A. Murphy. "Designing Reinforcement Learning Algorithms for Digital Interventions: Pre-Implementation Guidelines." <i>Algorithms</i>, 2022.</p> <p>Anna L. Trella, Peniel N. Argaw, Michelle M. Li, James A. Hay. "Discrepancies in Epidemiological Modeling of Aggregated Heterogeneous Data." <i>Workshop at IJCAI 2021 on Artificial Intelligence for Social Good</i>. (Selected for an Oral)</p>
INVITED TALKS	<p>Harvard University</p> <p>SEAS Seminar Series. 2022</p> <p>ICSA Applied Statistics Symposium</p> <p>Session on Precision Digital Health Care Via Machine Learning. 2022</p> <p>RLDM Conference</p> <p>Oral Presentation (top 7% of accepted papers). 2022</p> <p>Harvard University</p> <p>Guest Lecturer for STAT 234: Sequential Decision-Making. 2022</p> <p>Women in Data Science (WiDS) Cambridge Conference</p> <p>Lightning Talks. 2022</p> <p>Pennsylvania State University</p> <p>QuantDev Methodology Brown-Bag Seminar. 2021</p>
PATENTS	<p>Miguel Roman Durazo Almeida, Thanhthanh Anh Tran, Jongun Jung, Rohin Patel, Anna L. Trella, Tarmandeep Toor, Shih-Ta Peng. <i>Item Identification based on receipt image</i>. U.S. Patent 11,257,049, filed January 31, 2020, and issued February 22, 2022.</p>
LANGUAGES & HOBBIES	<p>English (native), Mandarin Chinese (native), Spanish (proficient), Japanese (limited proficient)</p> <p>Figure Skating (Senior Moves in the Field Gold Medalist)</p>