

Dibya Ghosh

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EDUCATION

University of California, Berkeley, Berkeley, USA

- B.A in Computer Science, Applied Mathematics Aug 2015 – Present
 - Cumulative GPA: 4.00 / 4.00
 - Graduate Coursework: Theoretical Statistics, Computer Vision, Probability, Information Theory
 - Relevant Undergraduate Coursework: Machine Learning, Convex Optimization, Algorithms, Randomized Algorithms, Honors Real Analysis, Honors Abstract Algebra, Honors Complex Analysis

EXPERIENCE

RESEARCH

- Berkeley Artificial Intelligence Research Lab May 2017 – Present
 - Advised by Sergey Levine
 - General focus: developing reinforcement learning algorithms suitable for challenging continuous control tasks in simulation and in the real world.
- Lawrence Berkeley National Laboratory Mar 2016 – Present
 - Advised by Ben Brown
 - General focus: developing interpretable machine learning algorithms for analyzing high-dimensional genomic problems
- Berkeley Institute for Data Science Jan 2016 – Jul 2016
 - Project: designing analytic tools and mapping visualizations for graphs of research communities

TEACHING

- Student Instructor: Stat 140 “Probability for Data Science” Fall 2018
- Head Student Instructor: Stat 140 “Probability for Data Science” Spring 2017, 2018
- Head Student Instructor: Stat 134 “Concepts of Probability” Fall 2017

ADDITIONAL EXPERIENCE

- Course Developer: Stat 140 “Probability for Data Science” Jun 2016 – Present
- Lead Developer at Preminon Jan 2017 – Feb 2018
- Course Development Assistant: Data 8 “Foundations of Data Science” Jan 2016 – May 2016

PUBLICATIONS

- D. Ghosh, A. Gupta, and S. Levine, “Actionable Representations with Goal-Conditioned Policies” under review at *International Conference on Learning Representations* 2019 (also presented at NeurIPS 2018 Deep RL Workshop)
- J. Fu*, A. Singh*, D. Ghosh, L. Yang, and S. Levine “Variational Inverse Control with Events: A General Framework for Data-Driven Reward Definition ” in *Neural Information Processing Systems* 2018
- D. Ghosh, B. Brown, “Interpretable Density Estimation in Genomics Data” in AI for Biological Systems Symposium at *Platform for Advanced Scientific Computing* 2018 (Talk),
- D. Ghosh, A. Singh, A. Rajeswaran, V. Kumar, and S. Levine, “Divide-and-Conquer Reinforcement Learning” in *International Conference on Learning Representations* 2018,
- A. Adhikari, D. Ghosh, et. al, “Theory Meets Data” Online Textbook, 2016

TALKS

- “Interpretable Density Estimation in Genomics Data” at *Platform for Advanced Scientific Computing* 2018 (Contributed)
- “Iterative Random Forests for Explainable Machine Learning” at *Machine Learning for Science* 2018 (Invited)

AWARDS & SCHOLARSHIPS

- Finalist for CRA Outstanding Undergraduate Researcher Award, 2018
Among the top twenty undergraduate students doing research in computer science in the United States
- Quantedge Award for Academic Excellence, 2018
Among senior students with a GPA of 4.0 at the University of California, Berkeley
- Dean’s List, Fall 2015 through Present, 2015 – 2018
Top 4% of undergraduates in the semester
- Robert J Kraft Award for Freshmen Jan 2016
For the top 3% of first-year students in the incoming freshman class at UC Berkeley
- 3rd Place at Intel International Science Fair 2015, May 2015