

Harry Bendekgey

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Education	Ph.D. Candidate, University of California, Irvine Fall 2019-present Advised by Erik Sudderth. Advanced to Candidacy Spring 2022.
	B.A., Pomona College Graduated Spring 2019 Computer Science and Mathematics (Double Major) GPA: 3.97
Teaching and Industry Experience	Instructor of Record Summer 2023 ICS 6N: Computational Linear Algebra University of California, Irvine For the 10-week summer session: developed all course materials, lectured, and graded
	Teaching Assistant Fall 2020 CS 177: Applications of Probability in CS University of California, Irvine In addition to standard TA duties (holding office hours and discussion sections, grading assignments) I designed both exams for this class section.
	Intern Summer 2019 Chan Zuckerberg Biohub San Francisco Work with the theory group on two projects touching biology, physics, and statistics: <ul style="list-style-type: none">◦ Investigating the ability of (MC)³ to explore the space of phylogenetic trees, and◦ Discovering a new power law for modeling diffusion in crowded dynamic spaces
	Teaching Assistant and Grader Math and Computer Science Departments Pomona College <ul style="list-style-type: none">◦ Functional Programming and Discrete Math, Combinatorics Spring 2019◦ Statistical Theory, Linear Algebra, Computer Systems Fall 2018◦ Fundamentals of Computer Science, Combinatorics Spring 2017-Spring 2018◦ Introduction to Computer Science Spring 2016-Fall 2016
	Languages Proficient with R, C, Python, Java, L ^A T _E X; Familiar with SQL, C++, JavaScript.
Publications	Unbiased learning of deep generative models with structured discrete representations. H Bendekgey , G Hope, E Sudderth. NeurIPS 2023
	Scaling Study of Diffusion in Dynamic Crowded Spaces. H Bendekgey , G Huber, D Yllanes, L Yan. APS March Meeting 2022
	Scalable & Stable Surrogates for Flexible Classifiers with Fairness Constraints. H Bendekgey , E Sudderth. NeurIPS 2021
	Clustering Player Strategies from Variable-Length Game Logs in <i>Dominion</i> . H Bendekgey , AAAI Workshop on Knowledge Extraction from Games (KEG), 2019.
Awards and Fellowships	Hasso Plattner Institute Fellowship , UC Irvine, 2021 3 years of full Ph.D funding for work on adaptive, safe and human-centered AI.
	Enhanced CS Department Excellence Fellowship , UC Irvine, 2019 Provides first-year Ph.D students with research funding and no teaching requirements.
	Paul B. Yale Computer Science Prize , Pomona College, 2019 Awarded annually to an outstanding senior majoring in Computer Science.
	The Phi Beta Kappa Award , Pomona College, 2019 Awarded to a senior for high quality of scholarship and promise of future distinction.
	Kenneth Cooke Summer Research Fellowship , Pomona College, 2018 Grant for summer research in an area of applied mathematics or statistics.