

Harry Bendekgey

www.hbendekgey.me
github.com/hbendekgey
linkedin.com/in/hbendekgey

Education	Ph.D. Candidate, University of California, Irvine Fall 2019-present Advised by Erik Sudderth. Advanced to Candidacy Spring 2022. GPA: 4.0
	B.A., Pomona College Graduated Spring 2019 Computer Science and Mathematics (Double Major) GPA: 3.97 Thesis: Clustering Player Strategies from Variable-Length Game Logs in Dominion
Teaching 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, Winter 2024 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.
	Teaching Assistant Computer Science Department Pomona College ◦ Discrete Math and Functional Programming (Head TA) Spring 2019 ◦ Computer Systems Fall 2018 ◦ Fundamentals of Computer Science (Head TA) Spring 2017, Spring 2018 ◦ Introduction to Computer Science Spring 2016-Fall 2016
	Mentor and Grader Mathematics Department Pomona College ◦ Combinatorial Mathematics Spring 2017, Spring 2018, Spring 2019 ◦ Linear Algebra Fall 2018 ◦ Statistical Theory Fall 2018
	Intern Summer 2019 Chan Zuckerberg Biohub San Francisco Work with the theory group on two projects touching biology, physics, and statistics: ◦ 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
Industry Experience	Engineering Intern Summer 2017 QuanticMind Created an API for employees to access databases without requiring access credentials; Led meetings with colleagues to generate common use cases to be addressed by API.
	Publications Undergraduate data science education: Who has the microphone and what are they saying? M Dogucu, S Demirci, H Bendekgey , FZ Ricci, CM Medina. In submission.
	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 *Dominion*.
H Bendekgey, AAAI Workshop on Knowledge Extraction from Games (KEG), 2019.

**UC Irvine
Awards**

Hasso Plattner Institute Fellowship 2021-2023
 Provides 3 years of full Ph.D funding for work on adaptive, safe and human-centered artificial intelligence.

Enhanced Computer Science Department Excellence Fellowship 2019-2020
 Allows first-year Ph.D students to engage sooner and more deeply with research by dispensing with teaching assistant requirement.

Dean's Award 2019
 Extra first-year grant for outstanding research potential.

**Pomona College
Awards**

Paul B. Yale Computer Science Prize 2019
 Awarded annually to an outstanding senior majoring in Computer Science.

Phi Beta Kappa Award 2019
 Awarded to a senior for high quality of scholarship and promise of future distinction.

Kenneth Cooke Summer Research Fellowship 2018
 Grant for summer research in an area of applied mathematics or statistics.

Bruce Jay Levy Prize in Mathematics 2018
 Awarded annually to a student for excellence in the field of mathematics.

Llewellyn Bixby Mathematics Prize 2017
 Awarded annually to a sophomore for excellence in the second year of mathematics.

**National
Awards**

Phi Beta Kappa Member Elected Junior year, 2018
 The oldest honor society in the country; at eligible schools, 2% of Juniors are elected.

National Merit Scholar 2015
 College scholarship based on performance on the Practice SAT.

Caroline D. Bradley Scholar 2011-2015
 Merit-based, four-year high school scholarship granted to 11 students nationally.