

## Harry Bendekgey

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<b>Education</b>	<b>University of California, Irvine</b>	Fall 2019-present
	Pursuing a Ph.D. in Computer Science Relevant Coursework: Probabilistic Graphical Models, Probabilistic Learning, Deep Generative Models, Stochastic Processes	GPA: 4.0
	<b>Pomona College</b>	Spring 2019
	Bachelor of Arts in Computer Science and Mathematics (Double Major) Relevant Coursework: Combinatorial Optimization, Computational Biology, Bayesian Statistics, Computational Statistics, Statistical Linear Models Natural Language Processing, Topics in Topology and Geometry	GPA: 3.97
<b>Research Experience</b>	<b>Intern</b>	Summer 2019-present
	Chan Zuckerberg Biohub	San Francisco
	Work with the theory group on two projects touching biology, physics, and statistics: <ul style="list-style-type: none"><li>◦ Investigating the ability of (MC)<sup>3</sup> to explore the space of phylogenetic trees, and</li><li>◦ Discovering a new power law for modeling diffusion in crowded dynamic spaces</li></ul>	
	<b>Research Fellow</b>	Fall 2018
	Computer Science Department	Pomona College
	Designed a novel approach for understanding the landscape of personas across games; Scraped and cleaned data from online <i>Dominion</i> logs to visualize player strategies.	
	<b>Research Fellow</b>	Summer 2018
	Kenneth Cooke Research Fellowship	Pomona College
	Researched the mathematical models underlying state-of-the-art election forecasting; Implemented adjustable forecasts for the 2018 midterm election based on these models.	
<b>Teaching Experience</b>	<b>Guest Lecturer</b>	Fall 2018
	CS 151: Artificial Intelligence MATH 154: Computational Statistics Gave guest lectures to upper-division undergraduate elective courses on: Artificial Intelligence: Monte Carlo Tree Search and the Multi-Armed Bandit Problem. Computational Statistics: Markov Chain Monte Carlo for Metropolis-Hastings.	Pomona College
	<b>Teaching Assistant</b>	
	Computer Science Department	Pomona College
	◦ Discrete Math and Functional Programming (Head TA)	Fall 2019
	◦ Computer Systems	Fall 2018
	◦ Fundamentals of Computer Science (Head TA)	Spring 2017-Spring 2018
	◦ Introduction to Computer Science	Spring 2016-Fall 2016
	<b>Mentor and Grader</b>	
	Mathematics Department	Pomona College
	◦ Linear Algebra	Fall 2018
	◦ Statistical Theory	Fall 2018
	◦ Combinatorial Mathematics	Spring 2017-Spring 2018
<b>Technical Experience</b>	<b>Engineering Intern</b>	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.	

<b>Publications</b>	Clustering Player Strategies from Variable-Length Game Logs in <i>Dominion</i> . <b>H Bendekgey</b> , AAAI Workshop on Knowledge Extraction from Games (KEG), 2019.
	Consistency and Reproducibility in U.S. House of Representatives Forecasts. <b>H Bendekgey</b> , arXiv preprint arXiv:1811.12466, 2018
	<i>In review</i> : Scalable Bounds for Flexible Classifiers with Group Fairness. <b>H Bendekgey</b> , E Sudderth.
	<i>In preparation</i> : Diffusion in Dynamic Crowded Spaces. <b>H Bendekgey</b> , G Huber, D Yllanes, L Yan.
<b>Programming Languages</b>	Proficient with R, C, Python, Java, $\text{\LaTeX}$ ; Familiar with: SQL, C++, Scala, JavaScript.
<b>UC Irvine Awards</b>	<b>Enhanced Computer Science Department Excellence Fellowship</b> 2019 Allows first-year Ph.D students to engage sooner and more deeply with research by dispensing with teaching assistant requirement.
	<b>Dean's Award</b> 2019 Extra first year grant for outstanding research potential.
<b>Pomona College Awards</b>	<b>Paul B. Yale Computer Science Prize</b> 2019 Awarded annually to an outstanding senior majoring in Computer Science.
	<b>Phi Beta Kappa Award</b> 2019 Awarded to a senior for high quality of scholarship and promise of future distinction.
	<b>Kenneth Cooke Summer Research Fellowship</b> 2018 Grant for summer research in an area of applied mathematics or statistics.
	<b>Bruce Jay Levy Prize in Mathematics</b> 2018 Awarded annually to a student for excellence in the field of mathematics.
	<b>Llewellyn Bixby Mathematics Prize</b> 2017 Awarded annually to a sophomore for excellence in the second year of mathematics.
<b>National Awards</b>	<b>Phi Beta Kappa Member</b> Elected Junior year, 2018 The oldest honor society in the country; at eligible schools, 2% of Juniors are elected.
	<b>National Merit Scholar</b> 2015 College scholarship based on performance on the Practice SAT.
	<b>Caroline D. Bradley Scholar</b> 2011-2015 Merit-based, four-year high school scholarship granted to 11 students nationally.