

Henry Bendekgey

San Francisco, CA
650.393.3229
harry.bendekgey@gmail.com

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

Education	Pomona College , Claremont, CA	Expected Spring 2019
	Bachelor of Arts in Computer Science and Mathematics (Double Major) GPA: 3.99	
	Relevant Coursework: Computational Statistics, Statistical Linear Models, Bayesian Statistics, Combinatorial Optimization, Computational Biology. Anticipated 2019: Natural Language Processing, Topology, Advanced Linear Algebra.	
	Aquincum Institute of Technology , Budapest, Hungary	Fall 2017
	Study Abroad	
Research Experience	Research Fellow	Fall 2018
	Computer Science Department 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.	Pomona College
	Research Fellow	Summer 2018
	Kenneth Cooke Research Fellowship Researched the mathematical models underlying state-of-the-art election forecasting; Implemented adjustable forecasts for the 2018 midterm election based on these models.	Pomona College
Teaching Experience	Guest Lecturer	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
	Teaching Assistant	
	Computer Science Department	Pomona College
	◦ 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
	◦ Linear Algebra	Fall 2018
	◦ Statistical Theory	Fall 2018
	◦ Combinatorial Mathematics	Spring 2017-Spring 2018
Technical 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	Clustering Player Strategies from Variable-Length Game Logs in <i>Dominion</i> . H Bendekgey , AAAI Workshop on Knowledge Extraction from Games (KEG), 2019.	
	Consistency and Reproducibility in U.S. House of Representatives Forecasts. H Bendekgey , arXiv preprint arXiv:1811.12466, 2018	
	<i>In preparation</i> : Bad Data: A Survey. H Bendekgey .	

Programming Languages	Proficient with R, Python, Java, L ^A T _E X; Familiar with: SQL, C, C++, Scala, JavaScript.	
Projects	<p>Midterms Forecasting Website midterms.shinyapps.io/2018 A fully interactive website to understand the differences in popular election forecasting methods, and to see how changing assumptions or parameters affects the final forecast.</p> <p>Spotify Data Science Workshop github.com/hbendekgey/Spotify-Workshop Detailed step-by-step instructions for how to use Spotify's API to get audio features of one's own music library, and then practice common machine learning techniques in Python on that data.</p> <p>Cellular Automata varsnrcrafts.com/#/crafts/react/Cellular%20Automaton Implementation of a generic cellular automaton with modifiable rule space, to understand how emergent properties can manifest in seemingly simple systems.</p>	
National Awards	<p>Phi Beta Kappa Member 2018 The oldest honor society in the country; at eligible schools, 2% of Juniors are elected.</p> <p>National Merit Scholar 2015 College scholarship based on performance on the Practice SAT.</p> <p>Caroline D. Bradley Scholar 2011-2015 Merit-based, four-year high school scholarship granted to 11 students nationally.</p> <p>Julian C. Stanley Study of Exceptional Talent, Mathematics 2010-2015 National award for students who score 700 or higher on the Math SAT before age 13.</p>	
Pomona College Awards	<p>Kenneth Cooke Summer Research Fellowship 2018 Grant for summer research in an area of applied mathematics or statistics.</p> <p>Bruce Jay Levy Prize in Mathematics 2018 Awarded annually to a student for excellence in the field of mathematics.</p> <p>Llewellyn Bixby Mathematics Prize 2017 Awarded annually to a sophomore for excellence in the second year of mathematics.</p> <p>Pomona College Scholar 2015-2018 Dean's list, awarded each semester to top 25% of each class based on GPA.</p>	
Extracurricular Activities	<p>Model United Nations 2015-2017 Served as organization's Secretary-General for 2016-2017 academic year; Received best delegate award at TrojanMUN 2016 and WUMUNC 2017.</p> <p>Mock Trial 2016-2018 Served as a witness on Pomona College's primary competition team; Received best witness award at Mocktopia 2017.</p>	