

## Henry Bendekgey

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<b>Education</b>	<b>Pomona College</b> , 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.	
	<b>Aquincum Institute of Technology</b> , Budapest, Hungary	Fall 2017
	Study Abroad	
<b>Research Experience</b>	<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	Pomona College
	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.	
	<b>Teaching Assistant</b>	
	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
	<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> . Henry Bendekgey, AAAI Workshop on Knowledge Extraction from Games (KEG), 2019.	
	<i>In preparation</i> : Consistency and Reproducibility in U.S. House of Representatives Forecasts. Henry Bendekgey.	
	<i>In preparation</i> : Bad Data: A Survey. Henry Bendekgey.	

<b>Programming Languages</b>	Proficient with R, Python, Java, L <sup>A</sup> T <sub>E</sub> X; Familiar with: SQL, C, C++, Scala, JavaScript.	
<b>Projects</b>	<p><b>Midterms Forecasting Website</b>  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><b>Spotify Data Science Workshop</b>  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><b>Cellular Automata</b>  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>	
<b>National Awards</b>	<p><b>Phi Beta Kappa Member</b> 2018  The oldest honor society in the country; at eligible schools, 2% of Juniors are elected.</p> <p><b>National Merit Scholar</b> 2015  College scholarship based on performance on the Practice SAT.</p> <p><b>Caroline D. Bradley Scholar</b> 2011-2015  Merit-based, four-year high school scholarship granted to 11 students nationally.</p> <p><b>Julian C. Stanley Study of Exceptional Talent, Mathematics</b> 2010-2015  National award for students who score 700 or higher on the Math SAT before age 13.</p>	
<b>Pomona College Awards</b>	<p><b>Kenneth Cooke Summer Research Fellowship</b> 2018  Grant for summer research in an area of applied mathematics or statistics.</p> <p><b>Bruce Jay Levy Prize in Mathematics</b> 2018  Awarded annually to a student for excellence in the field of mathematics.</p> <p><b>Llewellyn Bixby Mathematics Prize</b> 2017  Awarded annually to a sophomore for excellence in the second year of mathematics.</p> <p><b>Pomona College Scholar</b> 2015-2018  Dean's list, awarded each semester to top 25% of each class based on GPA.</p>	
<b>Extracurricular Activities</b>	<p><b>Model United Nations</b> 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><b>Mock Trial</b> 2016-2018  Served as a witness on Pomona College's primary competition team;  Received best witness award at Mocktopia 2017.</p>	