

## 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 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
	<b>Research Fellow</b>	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
<b>Teaching Experience</b>	<b>Guest Lecturer</b>	Fall 2018
	CS151: Artificial Intelligence Gave a guest lecture on Monte Carlo Tree Search and the Multi-Armed Bandit Problem to an upper-division computer science elective course.	Pomona College
	<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>	In submission: <b>H. Bendekgey</b> , “Clustering Player Strategies from Variable-Length Game Logs in <i>Dominion</i> ”, for <i>The AAAI Workshop on Knowledge Extraction from Games</i> , 2019	
	In preparation: <b>H. Bendekgey</b> , “Consistency and Reproducibility in U.S. House of Representatives Forecasts”	
<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>	<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.	
	<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.	
	<b>Cellular Automata</b> varsn Crafts.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.	
<b>National Awards</b>	<b>Phi Beta Kappa Member</b> The oldest honor society in the country; at eligible schools, 2% of Juniors are elected.	2018
	<b>National Merit Scholar</b> College scholarship based on performance on the Practice SAT.	2015
	<b>Caroline D. Bradley Scholar</b> Merit-based, four-year high school scholarship granted to 11 students nationally.	2011-2015
	<b>Julian C. Stanley Study of Exceptional Talent, Mathematics</b> National award for students who score 700 or higher on the Math SAT before age 13.	2010-2015
<b>Pomona College Awards</b>	<b>Kenneth Cooke Summer Research Fellowship</b> Grant for summer research in an area of applied mathematics or statistics.	2018
	<b>Bruce Jay Levy Prize in Mathematics</b> Awarded annually to a student for excellence in the field of mathematics.	2018
	<b>Llewellyn Bixby Mathematics Prize</b> Awarded annually to a sophomore for excellence in the second year of mathematics.	2017
	<b>Pomona College Scholar</b> Dean's list, awarded each semester to top 25% of each class based on GPA.	2015-2018
<b>Extracurricular Activities</b>	<b>Model United Nations</b> Served as organization's Secretary-General for 2016-2017 academic year; Received best delegate award at TrojanMUN 2016 and WUMUNC 2017.	2015-2017
	<b>Mock Trial</b> Served as a witness on Pomona College's primary competition team; Received best witness award at Mocktopia 2017.	2016-2018