Henry Bendekgey

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Education	**Pomona College**, Claremont, CA	Expected Spring 2019
	Bachelor of Arts in Computer Science and Mathematics (Double Major)	
	GPA: 3.99	
	Relevant Coursework: Combinatorial Optimization, Computational Biology, Bayesian Statistics, Computational Statistics, Statistical Linear Models	
	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	Pomona College
	Designed a novel approach for understanding the landscape of personas across games; Scraped and cleaned data from online *Dominion* logs to visualize player strategies.	
	Research Fellow	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.	

Teaching Experience	**Guest Lecturer**	Fall 2018
	CS151: Artificial Intelligence	Pomona College
	Gave a guest lecture on Monte Carlo Tree Search and the Multi-Armed Bandit Problem to an upper-division computer science elective course.	
	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	In submission: **H. Bendekgey**, "Visualizing Player Strategies in *Dominion*", for *The Thirty-Third AAAI Conference on Artificial Intelligence*, 2019
	In preparation: **H. Bendekgey**, "Consistency and Reproducibility in U.S. House of Representatives Forecasts"

Programming Languages	Proficient with R, Python, Java, LaTeX; Familiar with: SQL, C, C++, Scala, JavaScript.

Projects	**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.
	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.
	Cellular Automata
	varsncrafts.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.

National Awards	**Phi Beta Kappa Member**	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.	
	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.	

Pomona College Awards	**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.	
	Pomona College Scholar	2015-2018
	Dean's list, awarded each semester to top 25% of each class based on GPA.	

Extracurricular Activities	**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.	
	Mock Trial	2016-2018
	Served as a witness on Pomona College's primary competition team; Received best witness award at Mocktopia 2017.	