Gabriel Simmons

LinkedIn: linkedin.co	om/in/gabriel-simmons	g-simmons.github.io	
RESEARCH INTERESTS	Artificial intelligence, human wisdom, human morality. creasingly capable AI systems.	Societal preparedness for in-	
EDUCATION	University of California, Davis		
	M.S. Computer Science	Fall 2020 - Spring 2023	
	B.S. Mechanical Engineering Minor in Computer Science	Fall 2014 - Spring 2019	
HONORS AND AWARDS	University Honors Program UC Davis Regents Scholarship Phi Kappa Phi Honor Society	2014 - 2019 2014 - 2019 2019	
PUBLICATIONS	Simmons G . Moral Mimicry: Large Language Models Produce Moral Rationalizations Tailored to Political Identity. ArXiv. 2022.		
	Simmons G , Lee F, Kim M, Holt R, Tagkopoulos I. Identification of Differential, Health-Related Compounds in Chardonnay Marc through Network-Based Meta-Analysis. Curr Dev Nutr. 2020;4(Suppl 2):475.		
	Chin EL, Simmons G , Bouzid YY, Kan A, Burnett D Nutrient Estimation from 24-Hour Food Recalls Using M Mapping: A Case Study with Lactose. Nutrients. 2019;	J, Tagkopoulos I, Lemay DG. achine Learning and Database 11(12):3045.	
RESEARCH	 Moral Foundations and Large Language Models Advisor: Dr. Dipak Ghosal Exploring whether large language models like GPT associated with political groups. 	Summer 2022 - Fall 2022 C3 can mimic the moral biases	
	Integrative Biology and Predictive Analytics Lab Advisor: Dr. Ilias Tagkopoulos	Fall 2020 - Spring 2022	
	- Developed NLP tools using natural language inference to extract structured food composition data from scientific publications. This work was funded by the AI Institute for Next Generation Food Systems.		
	 Milk, Health, and Genetics Mentors: Dr. Ilias Tagkopoulos, Dr. Danielle Lemay Applied computational techniques to investigate the with markers of cardiovascular, bone, prostate, and 	Spring 2019 he association of lactose intake d gut health	
	- Developed a machine learning model to predict food lactose content		
	- Implemented a fast fuzzy matching algorithm to align food names across databases		
	Cyber-Human-Physical Systems Lab at UC Davi Mentors: Dr. Nelson Max, Dr. Zhaodan Kong	is 2017 - 2019	
	- "Augmented Reality Multi-player Quadrotor Gam	e" Fall 2017 - Spring 2019	
	- "EEG-Based Brain-Controlled Mobile Robot"	Spring 2017	
PRESENTATIONS	ASN Nutrition Online "Identification of Differential, Health-Related Compound Network-Based Meta-Analysis"	2020 s in Chardonnay Marc through	

	National McNair Scholars Conference at UCLA "Augmented-Reality Multi-Player Quadcopter Game System: Localizatio trol"	2018 n and Con-	
	UC Davis Undergraduate Research Conference "Augmented-Reality Multi-Player Quadcopter Game System" "EEG-Based Brain-Controlled Mobile Robots: Insights and Lessons"	$\begin{array}{c} 2018\\ 2017 \end{array}$	
TEACHING EXPERIENCE	University of California, DavisSpring 2021, 3Guest Lecturer: NUB201C Advanced Nutrition IIISpring 2021, 3Teaching Assistant: ECS289G Deep LearningTeaching Assistant: ECS132 Probability and Stats for CS	Spring 2022 Fall 2020 Vinter 2022	
WORK EXPERIENCE	 Process Integration and Predictive Analytics, LLC. Data Scientist Lead developer of internal tools to assist domain experts in data condocument labeling tasks. 	2019 - 2022 iration and	
	- Led the data science functions of an exploratory investigation to identify the bioactive constituents, potential human health effects, and valorization potential of an agricultural side stream.		
	Wyzant Tutoring		
	Python and Machine Learning Tutor 20	19 - present	
	- Helped dozens of undergraduate-level students and adult learners with Python, machine learning, and natural language processing coursework and projects		
	- Tutored for over 250 hours with over 100 five-star ratings		
	CalEPA Office of Environmental Health and Hazard Assessment (OEHHA)		
	Engineering Student Intern Fall 2018 - S - Contributed to data management and analysis for study assessing exposure to crumb rubber in synthetic turf fields	Spring 2019 the risks of	
	Hill Engineering, LLC.		
	Mechanical Engineering Intern Su - Designed and programmed computer vision-based retrofit device to electrical discharge machine cutting tasks	ummer 2017 o automate	
	- Designed custom parts for residual stress testing applications in Solid	dWorks	
	Knight-Williams Research Communications		
	Research Associate - Performed statistical analysis and visualization of survey data for l educational media projects using Microsoft Excel	2012 - 2019 NSF-funded	
	- Automated document-building tasks to increase efficiency using Python and VBA		
	- Trained other associates to perform tasks including data entry and v	isualization	
ACTIVITIES & SERVICE	Invited Speaker: WellVine Chardonnay Marc Science Symposium Natural Language Processing Reading Group Undergraduate Research Supervisor MentorCollective Alumni Mentor to UCD Engineering undergraduate Guest Speaker - MARI WorkX High School Summer Internship Program Black Engineers Association Undergraduate Research Panelist Unmanned Aerial Systems Journal Club	Sept 2021 2020-2021 2020-2022 2020 2020 2019 2018	