

KATE BARNES PH.D. STUDENT

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EDUCATION	University of Colorado Boulder	Boulder, CO
	<i>Ph.D. in Computer Science</i>	2024 – 2029 (<i>expected</i>)
	Advisors: Dr. Aaron Clauset & Dr. Dan Larremore	
	Research areas: Science of Science, Complex Networks, Causal Methods	
	<i>M.S. in Philosophy</i>	2024 – 2026 (<i>expected</i>)
WORK EXPERIENCE	Faculty Mentor: Dr. Julia Staffel	
	Research areas: Social Epistemology of Science, Causation, Philosophy of Computing	
	Colorado College (CC)	Colorado Springs, CO
	<i>B.S. Major: Cognitive Science, Minor: Physics</i>	2020
	GPA: 3.70/4.00. Thesis on Affective Computing.	
	Research Assistant CU Boulder, Colorado	2024 - present
	• Computationally analyze data on scientific publications, researchers and academic institutions, assessing how social factors influence scientific progress.	
	Fulbright Scholar BME, Budapest, Hungary	2022 - 2024
	• Conducted data & network science research at the Budapest University of Technology and Economics (BME), Department of Stochastics, Human & Social Data Science Lab	
	Research Assistant OHSU, Portland, OR	2021 - 2022
SUMMER RESEARCH INTERNSHIPS	• Conducted behavioral psychology research on decision making at the Oregon Health & Science University, Translational Behavioral Economics Laboratory.	
	Data Acquisition Technician Sanborn, Colorado Springs, CO	2020 - 2021
	• Collected and analyzed GPS mapping data.	
	AIDE Intern Philosophy Department, Northeastern University	2026
	• Supervisor: Kathleen Creel and John Basl • Participant in the AI & Data Ethics (AIDE) summer school	
	REU Robotics Department, Oregon State University	2018
	• Supervisor: Ross Hatton • Project: Modal Vibrations on Orb Spider Webs	
	Philosophy Faculty-Student Collaborative Research Grant Colorado College	2017
	• Supervisor: Rick Furtak • Project: Does the Epistemology of Emotions Imply Panpsychism?	
	Saturday Academy Neuroscience Department, OHSU	2014
	• Supervisor: Christa Helms • Project: The Impact of Ethanol Intake on Anti-Inflammatory Cytokine Levels	

TEACHING	TA, Data Science <i>Aquincum Institute of Technology, Budapest, Hungary.</i>	2022 - 2024
	Founder, Philosophy of Technology Reading Group <i>Aquincum Institute of Technology, Budapest, Hungary.</i>	2022 - 2024
	Coach, National Ethics Bowl <i>Colorado College and Lake Oswego High School.</i>	2020 - 2022
	Tutor, Quantitative Reasoning Center <i>Colorado College.</i>	2017 - 2019
CONFERENCE APPEARANCES	Intl. Conference on the Science of Science Boulder, Colorado	2026
	• Presentation: <i>The sources and impacts of idiosyncrasies in peer review</i>	
	ACM Conf. on Fairness, Accountability & Transparency Monteval, Canada	2026
	• Presentation: <i>Edge interventions mitigate disparities in the CS coauthorship network</i>	
	Beyond Causal Exclusion Workshop (Invited) Hamburg, Germany	2026
	• Presentation: <i>Are causal inference methods ontologically neutral?</i>	
	Network Science Boston, Massachusetts	2026
	• Presentation: <i>The sources and impacts of idiosyncrasies in peer review</i>	
	• Poster: <i>Characterizing academic collaborations by prestige and discipline composition</i>	
	Society for the Metaphysics of Science Lugano, Switzerland	2025
	• Presentation: <i>Are causal inference methods ontologically neutral?</i>	
	Intl. Conference on the Science of Science Copenhagen, Denmark	2025
	• Presentation: <i>Edge interventions mitigate demographic and prestige disparities in computer science coauthorship</i>	
	Intl. Association for Computing and Philosophy Corvallis, Oregon	2024
	• Presentation: <i>Citation stacking matters: towards a new metric for evaluating journal quality</i>	
	Complex Networks Menton, France	2023
	• Presentation: <i>Citation stacking matters: towards a new metric for evaluating journal quality</i>	
	• Poster: <i>Topicality boosts popularity: a comparative analysis of NYT articles and Reddit memes</i>	
	Intl. Association for Computing and Philosophy Prague, Czech Republic	2023
	• Presentation: <i>Topicality boosts popularity: a comparative analysis of NYT articles and Reddit memes</i>	

PUBLICATIONS	1. Kate Barnes, Mia Ellis-Einhorn, Carolina Chavez, Nayera Hasan, Mohammad Fanous, Blair D. Sullivan, Sorelle A. Friedler, and Aaron Clauset. 2026. Edge interventions can mitigate demographic and prestige disparities in the computer science coauthorship network. In The 2026 ACM Conference on Fairness, Accountability, and Transparency (FAccT '26), June 25–28, 2026, Montreal, Canada. ACM, New York, NY, USA, 35 pages. https://doi.org/10.1145/3805689.3806762 2. Kate Barnes, Ahmed Bantour, Levente Török, Roland Molontay (2026) Citation Distance Matters: Towards a New Metric for Evaluating Journal Quality. <i>Scientometrics</i>, 131:1505–1524. 3. Balázs R Sziklai, Kate Barnes, József Pintér (2025) Realistic models for diffusion of innovation. <i>Social Network Analysis & Mining</i>, 15(12). 4. Kate Barnes, Péter Juhász, Marcell Nagy, Roland Molontay (2024) Topicality boosts popularity: a comparative analysis of NYT articles and Reddit memes. <i>Social Network Analysis & Mining</i>, 14(119). 5. Kate Barnes, Tiernen Riesenmy, Duke T. Minh, Ellie Lleshi, Nora Balogh, Roland Molontay (2021) Dank or Not? Analyzing and Predicting the Popularity of Memes on Reddit. <i>Applied Network Science</i>, 6(1).
AWARDS AND HONORS	• Boulder Future Leaders Scholarship, CU Boulder 2024 • DAAD Master’s Scholarship, Awarded by Germany 2024 • Interview, BME 2023 https://www.old.bme.hu/news/20231130/The_mathematical_mastery_of_BME_captivates_Fulbright_student_visiting_researcher?language=en • Fulbright Scholarship, Hungary 2022 • Phi Beta Kappa Honors Society, Colorado College 2020 • Venture Grant, Colorado College 2019
SKILLS	Languages: English (Native), Spanish (Coversational), Hungarian (B1 level) Programming: Python (advanced), MATLAB, Java, C++, Coq (familiar)