

# Rebecca Dorn

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## EDUCATION

**Pursuing Ph.D., Computer Science**

**University of Southern California**

Advisors: Kristina Lerman and Fred Morstatter

Academic Focus: Machine Learning Fairness, Computational Social Science

August 2021-Present

GPA 3.54

**B.S., Computer Science**

**University of California, Santa Cruz**

Thesis: Bias Exploration in Face Verification Systems

September 2016-June 2020

GPA 3.47

## PUBLICATIONS

### PEER REVIEWED PAPERS

Ranjit, J., Joshi, B., **Dorn, R.**, Petry, L., Koumoundouros, O., Bottarini, J., Liu, P., Rice, E. & Swayamdipta, S. OATH-Frames: Characterizing Online Attitudes Towards Homelessness via LLM. *ACM EMNLP 2024*.

He, Z., **Dorn, R.**, Guo, S., Chu, D. & Lerman, K. COMMUNITY-CROSS-INSTRUCT: Unsupervised Instruction Generation for Aligning Large Language Models to Online Communities. *ACM EMNLP 2024*.

**Dorn, R.**, Kezar, L., Morstatter, F. & Lerman, K. Harmful Speech Detection by Language Models Exhibit Gender-Queer Dialect Bias. *ACM EAAMO 2024*.

**Dorn, R.**, Mokhberian, N., Jiang, J., Abramson, J., Morstatter, F. & Lerman, K. Non-Binary Gender Expression in Online Interactions. *IEEE ASONAM 2024*.

### PRE-PRINTS

Chu, D., He, Z., **Dorn, R.** & Lerman, K. Improving and Assessing the Fidelity of Large Language Model Alignment to Online Communities. *Under Submission*.

Sanchez, C., Chu, D., He, Z., **Dorn, R.**, Murray, S. & Lerman, K. Feelings about Bodies: Emotions on Diet and Fitness Forums Reveal Gendered Stereotypes and Body Image Concerns. *Under Submission*.

**Dorn, R.**, Ma, Y., Morstatter, F. & Lerman, K. Gender and Prestige Bias in Coronavirus News Reporting. *ArXiv Preprint 2022*.

## PRESENTATIONS

### POSTER PRESENTATIONS

Lee, E, Baird, A., Young, L. & **Dorn, R.** The Role of Public Facing Organizations in the Transgender Rights Debate: An Issue Management Framework. *Organizational Communication Research Escalator at ICA 2024*.

Ranjit, J., Joshi, B., **Dorn, R.**, Petry, L., Koumoundouros, O., Bottarini, J., Liu, P., Rice, E. & Swayamdipta, S. OATH-Frames: Characterizing Online Attitudes Towards Homelessness via LLM. *USC ShowCAIS 2024*.

**Dorn, R.**, Kezar, L., Morstatter, F. & Lerman, K. Harmful Speech Detection by Language Models Exhibit Gender-Queer Dialect Bias. *SoCalNLP 2023*.

Ranjit, J., Joshi, B., **Dorn, R.**, Petry, L., Koumoundouros, O., Bottarini, J., Liu, P., Rice, E. & Swayamdipta, S. OATH-Frames: Characterizing Online Attitudes Towards Homelessness via LLM. *SoCalNLP 2023*.

**Dorn, R.**, Mokhberian, N., Jiang, J., Abramson, J., Morstatter, F. & Lerman, K. Non-Binary Gender Expression in Online Interactions. *CMU SBP-BRIMS 2023*.

### INVITED TALKS

Dorn, R. (2023, November). Gender-Queer Dialect Bias in Harmful Speech Detection by Large Language Models. University of Southern Information Science Institute Fairness and Bias Group. Marina Del Rey, CA.

Dorn, R. (2023, March). Non-Binary Gender Expression in Online Interactions. University of Southern California Center for AI in

Society. Los Angeles, CA.

Dorn, R. (2022, October). Studying Gender Equity with Data Science. University of Southern California Women in Science and Engineering (WiSE) STEM Bytes. Los Angeles, CA.

### **RELEVANT WORK EXPERIENCE**

**USC Stimulating STEM Summer Program**, Computer Science Education Coordinator May – August 2024

- Designed and ran programming lessons for high school students with identities historically underrepresented in STEM.

**Families USA**, Data Science Intern December 2020 – August 2021

- Integrated multiple Census datasets to examine demographics of uninsured populations receiving unemployment benefits.
- ★ Utilized by Nancy Pelosi’s office to add provisions to the American Relief Act (2021).

**Habonim Dror Camp Moshava**, Educational Director March – August 2020

- Led over 100 staff members in building social justice educational curriculum for campers entering grades 3 through 11.

### **TEACHING EXPERIENCE**

**Graduate Teaching Assistant, Data Structures** Fall 2024, Fall 2023

**Graduate Teaching Assistant, Machine Learning for Data Science** Summer 2024

**Graduate Teaching Assistant, Fairness in Artificial Intelligence** Spring 2023

**Undergraduate Teaching Assistant, Ethics & Algorithms** Winter, Spring 2020

**Undergraduate Peer Tutor** Winter, Spring 2019

### **HONORS AND AWARDS**

EAAMO Conference Travel Award, 2024

WiSE Travel Award, 2024

Best Poster Award for *OATH-Frames: Characterizing Online Attitudes Towards Homelessness...*, USC ShowCAIS 2024

SBP-BRiMS Scholarship, 2023

Inclusive STEM Educator Award, 2019

### **MEDIA COVERAGE**

Soetirto, Rania. “AI Solutions for Social Good: Ph.D. Student Enlists LLM Assistants on Project Addressing Homelessness”. Article in *USC Viterbi School of Engineering Newsletter*. September 2024.

Russell, Adam (Host). “There is no end goal for AI ethics, there will always be something new to mitigate”. In *AI/nsiders Podcast*, June 2024.

### **SERVICE AND LEADERSHIP**

**Member:** QueerInAI (2023-present), Women in Science and Engineering (2021 – present)

**External Reviewer:** LREC (2024), IJHCI (2024), CSCW (2023), WebSci (2022), JMIR (2022)