

Katy Felkner

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EDUCATION

University of Southern California

Ph.D. in Computer Science

Los Angeles, CA

Aug. 2020 – Present

- Expected Spring 2027; GPA: 3.88/4.00; Supported by **NSF Graduate Research Fellowship**
- Selected Coursework: Adv. NLP, Fairness in AI, Probability for Data Sci., Representation Learning in NLP

University of Oklahoma

Norman, OK

B.S. Computer Science (summa cum laude), B.A. Letters (summa cum laude); GPA: 4.0/4.0 Aug. 2016 – May 2020

RESEARCH INTERESTS

Research agenda focuses on developing high-quality, **well-grounded benchmark datasets** for robust evaluation of language models, with particular emphases on community-engaged methods and on rigorous measurement of social bias.

TECHNICAL SKILLS

Programming Languages and Skills: Python, C, C++, R, SQL, Bash Scripting, HPC, Slurm

ML/NLP/Data Science Tools: HuggingFace, PyTorch, TensorFlow, SpaCy, Pandas, Numpy, Scikit-Learn, NLTK

RESEARCH EXPERIENCE

LLM Fairness and Bias, USC Information Sciences Institute

Los Angeles, CA

Graduate Research Assistant

Jan. 2022 – Present

- Develop two community-sourced benchmark datasets for detecting anti-LGBTQ+ and antisemitic bias in LLMs.
- Design and distribute two community surveys and analyze 500 responses to inform LLM bias benchmarks.
- Lead team of 3 to collect 8M sentences of community data, then train 32 debiased models via continued pretraining.
- Assess LLM capability for fairness benchmark construction and conduct detailed human analysis of model failures.
- **Mentoring:** Mentor undergrad on project analyzing behavior of textual entailment (NLI) as an LLM bias metric.
- **Publications:** Lead interdisciplinary teams of coauthors to write and publish two papers in ACL (2023, 2024).

Border Translation Project, USC Information Sciences Institute

Los Angeles, CA

Graduate Research Assistant

Aug. 2020 – Dec. 2021

- Built and evaluated NMT systems for extremely low-resource languages.
- Developed NMT system for K'iche', with intended application of providing legal assistance to asylum seekers.

Ultrascalse Systems Research Center, Los Alamos National Laboratory

Remote

Post-Baccalaureate Research Intern

May 2020 – Aug. 2020

- Tested 16 combinations of word embedding and clustering algorithms to predict failures from supercomputer syslog.
- **Publication:** Paper accepted to Second Workshop on ML for Computing Systems, Supercomputing 2020.

SELECTED PUBLICATIONS

Felkner, Virginia K., Jennifer Thompson, and Jonathan May (Aug. 2024). “GPT is Not an Annotator: The Necessity of Human Annotation in Fairness Benchmark Construction”. In: *Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics*. DOI: [10.18653/v1/2024.acl-long.760](https://doi.org/10.18653/v1/2024.acl-long.760).

Felkner, Virginia K., Ho-Chun Herbert Chang, et al. (July 2023). “WinoQueer: A Community-in-the-Loop Benchmark for Anti-LGBTQ+ Bias in Large Language Models”. In: *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics*. DOI: [10.18653/v1/2023.acl-long.507](https://doi.org/10.18653/v1/2023.acl-long.507).

Felkner, Virginia K., Ho-Chun Herbert Chang, et al. (July 2022). “Towards WinoQueer: Developing a Benchmark for Anti-Queer Bias in Large Language Models”. In: *QueerInAI Affinity Group Workshop*. NAACL 2022. arXiv: [2206.11484](https://arxiv.org/abs/2206.11484) [cs.CL]. URL: <https://arxiv.org/abs/2206.11484>.

TEACHING EXPERIENCE

USC CSCI 662: Advanced NLP: Teaching Assistant

Aug. 2025 – Dec. 2025

USC CSCI 350: Intro to Operating Systems: Teaching Assistant

May 2025 – Aug. 2025

PROFESSIONAL SERVICE

Seminar Organizing: USC ISI Natural Language Seminar

Aug. 2024 – May 2025

Reviewing: EMNLP 2025 Ethics Review, NAACL SRW 2025, EMNLP 2023, ACL 2023, EMNLP 2022 Theme Track