

Anaelia Ovalle

they/them

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RESEARCH INTERESTS

Responsible AI strategy, inclusive machine learning, and community-guided AI harm evaluation.

EDUCATION

University of California, Los Angeles

Sept 2019 - June 2024

PhD Candidate in Computer Science, Advised by Professor Kai-Wei Chang

M.S. Computer Science

Sept 2021

University of San Francisco

May 2017

B.S. Data Science

WORK EXPERIENCE

Meta

Fundamental AI Research (FAIR), *Research Scientist Intern*

Aug 2023 - Dec 2023

- Led sociotechnical evaluation and experimentation for inclusive RLHF training.

Responsible AI (RAI), *Research Scientist Intern*

June 2021 - Oct 2021

- Created new fairness metric and approach for assessing 1) fair content sourcing from Instagram and 2) unfair content sourcing mitigation which was later productized by Facebook Ads team.

Amazon

Trustworthy Alexa, *Applied Scientist Intern*

June 2023-Aug 2023, June 2022 - Sept 2022

- Discovered how LLM misgendering behavior is propagated via BPE Tokenization. Research submitted to 2023 EACL Conference.
- Created benchmark dataset [TANGO](#) and automatic/human evaluations to evaluate gender inclusivity of generative language technologies. Research published in 2023 ACM FAccT Conference.
- Led dialogue across teams outside of Alexa for stakeholder buy-in and interdisciplinary feedback on experiment design.

Prime Video Compliance, *Applied Scientist Intern*

June 2020 - Sept 2020

- Enabled racist content discovery within Amazon Prime Video for improved regional Prime Video compliance and more transparent content flagging for viewer discretion.

Unity Technologies

Monetization Team, *Data Scientist*

Sept 2017 - Aug 2019

- Implemented reinforcement-learning (RL) based and non-RL-based products to serve mobile game devs. Collaborated with product and engineering teams in fast-paced environment, resulting in >5% improvement on ad spend.
- Led experiments for in-app purchase recommendation and personalized ad placements in a fast-paced and cross-functional team. Designed A/B tests and provided actionable insights to guide product.

- Built player engagement models with game-play data from the Unity Engine to inform player churn prevention strategy. Used Pyspark and Tensorflow to implement multiple ML algorithms (e.g. logistic regressions, XGBoost, various deep neural network topologies) for deployment within a mobile game setting.

SELECTED WORKS

- [1] Anaelia Ovalle, Ninareh Mehrabi, Palash Goyal, et al. “Are you talking to [’xem’] or [’x’, ’em’]? On Tokenization and Addressing Misgendering in LLMs with Pronoun Tokenization Parity”. In: *Neurips 2023 Workshop Queer in AI*. 2023.
- [2] Organizers Of Queer in AI, Anaelia Ovalle, Arjun Subramonian, et al. “Queer In AI: A Case Study in Community-Led Participatory AI”. In: *Proceedings of the 2023 ACM Conference on Fairness, Accountability, and Transparency*. 2023, pp. 1882–1895.
- [3] Anaelia Ovalle, Palash Goyal, Jwala Dhamala, et al. “‘I’m fully who I am’: Towards Centering Transgender and Non-Binary Voices to Measure Biases in Open Language Generation”. In: *Proceedings of the 2023 ACM Conference on Fairness, Accountability, and Transparency*. 2023, pp. 1246–1266.
- [4] Anaelia Ovalle, Arjun Subramonian, Vagrant Gautam, et al. “Factoring the Matrix of Domination: A Critical Review and Reimagination of Intersectionality in AI Fairness”. In: *Proceedings of the 2023 AAAI/ACM Conference on AI, Ethics, and Society*. 2023, pp. 496–511.
- [5] Nathan Dennler, Anaelia Ovalle, Ashwin Singh, et al. “Bound by the Bounty: Collaboratively Shaping Evaluation Processes for Queer AI Harms”. In: *Proceedings of the 2023 AAAI/ACM Conference on AI, Ethics, and Society*. 2023, pp. 375–386.
- [6] Anaelia Ovalle, Davi Liang, and Alicia Boyd. “Should they? Mobile Biometrics and Technopolicy Meet Queer Community Considerations”. In: *Proceedings of the 3rd ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization*. 2023, pp. 1–10.
- [7] Anaelia Ovalle, Sunipa Dev, Jieyu Zhao, et al. “Auditing Algorithmic Fairness in Machine Learning for Health with Severity-Based LOGAN”. In: *2023 AAAI Health Intelligence Workshop*. 2023.
- [8] Sunipa Dev, Masoud Monajatipoor, Anaelia Ovalle, et al. “Harms of gender exclusivity and challenges in non-binary representation in language technologies”. In: *Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing*. 2021, pp. 1968–1994.
- [9] Chandra L Ford, Bitu Amani, Nina T Harawa, et al. “Adequacy of existing surveillance systems to monitor racism, social stigma and COVID inequities: a detailed assessment and recommendations”. In: *International journal of environmental research and public health* 18.24 (2021), p. 13099.

INVITED TALKS

Meta, FAIR Society & AI Team

March 2023

Title: Intersectionality as a Means for Interrogating Power Structures in AI

UC Berkeley, Data Science for Social Justice Workshop

July 2023

Title: Towards Inclusive Harm Evaluation Frameworks: The Case of Gender Minorities

University of Michigan, Gender Diversity in Robotics Seminar

July 2023

Title: Queer Realities Meet Harm Evaluation Frameworks for Generative AI

HONORS AND AWARDS

NSF NRT Program Trainee	2021
Ford Fellowship Honorable Mention	2021
GEM Full Fellowship	2020
Eugene V. Cota Robles Full Fellowship	2019
The Anita Borg Systems Pass It On Award	2018
USF Magna Cum Laude	2017
USF Senior Leadership Award	2017
USF Changes the World From Here Academic Research Award	2017