

# Arjun Subramonian (they/them)

Computer Science Department  
University of California, Los Angeles  
Core Organizer, Queer in AI

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Publications: [Semantic Scholar](#), [Google Scholar](#)

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## Research Interests

graph machine learning, natural language processing, fairness, justice, ethics

## Education

**PhD in Computer Science; University of California, Los Angeles (2021-Present)**, GPA: 3.933

NSF MENTOR Fellow, Eugene V. Cota-Robles Fellow

*Advisors:* Yizhou Sun, Kai-Wei Chang

**BS in Computer Science; University of California, Los Angeles (2018-2021)**, GPA: 3.927

Summa Cum Laude

## Work Experience

Research Intern; Meta Society and Responsible AI (2022)

Research Intern; Microsoft Research FATE (2022)

Privacy Research Intern; Snap, Inc. (2021)

AllenNLP Research Engineering Intern; Allen Institute for Artificial Intelligence (2021)

Software Engineering Intern; Microsoft Corporation (2020)

Software Engineering Intern; Get Heal, Inc. (2019)

## Conference and Journal Papers

**Motif-Driven Contrastive Learning of Graph Representations**, [URL](#)

Shichang Zhang, Ziniu Hu, **Arjun Subramonian**, Yizhou Sun

Transactions on Knowledge and Data Engineering

**Factoring the Matrix of Domination: A Critical Review and Reimagination of Intersectionality in AI Fairness**, [URL](#)

Anaelia Ovalle, **Arjun Subramonian**, Vagrant Gautam, Gilbert Gee, Kai-Wei Chang

AIES 2023 (28.9% acceptance rate) Oral (7.7% acceptance rate)

**Bound by the Bounty: Collaboratively Shaping Evaluation Frameworks for Queer AI Harms**, [URL](#)

Organizers Of QueerInAI, ..., **Arjun Subramonian**, ..., Jess de Jesus de Pinho Pinhal

AIES 2023 (28.9% acceptance rate)

**It Takes Two to Tango: Navigating Conceptualizations of NLP Tasks and Measurements of Performance**, [URL](#)

**Arjun Subramonian**, Xingdi Yuan, Hal Daumé III, Su Lin Blodgett

Findings of ACL 2023 (41.89% acceptance rate)

**[Best Paper] Queer In AI: A Case Study in Community-Led Participatory AI**, [URL](#)

Organizers of QueerInAI, ..., **Arjun Subramonian**, ..., Luke Stark

FAccT 2023 (24.5% acceptance rate)

**On the Discrimination Risk of Mean Aggregation Feature Imputation in Graphs,** [URL](#)

Arjun Subramonian, Kai-Wei Chang, Yizhou Sun

NeurIPS 2022 (25.6% acceptance rate)

**Queer in AI,** [URL](#)

Organizers of QueerInAI, ..., Arjun Subramonian\*, ..., Jeffrey Xiong\*

XRDS: Crossroads, The ACM Magazine for Students, Volume 28, Issue 4

**On Dyadic Fairness: Exploring and Mitigating Bias in Graph Connections,** [URL](#)

Arjun Subramonian

ICLR 2022 Blogpost Track (32% acceptance rate)

**Harms of Gender Exclusivity and Challenges in Non-Binary Representation in Language Technologies,** [URL](#)

Sunipa Dev, Masoud Monajatipoor\*, Anaelia Ovalle\*, Arjun Subramonian\*, Jeff M Phillips, Kai-Wei Chang

EMNLP 2021 Oral (9.8% acceptance rate), WiML Un-Workshop @ NeurIPS 2021.

**MOTIF-Driven Contrastive Learning of Graph Representations,** [URL](#)

Arjun Subramonian

Undergraduate Consortium @ AAAI 2021 (17% acceptance rate)

**Automated, Cost-Effective Optical System for Accelerated**

**Antimicrobial Susceptibility Testing (AST) Using Deep Learning,** [URL](#)

Calvin Brown, ..., Arjun Subramonian, ..., Aydogan Ozcan

ACS Photonics

**Estimating the Ages of FGK Dwarf Stars Through the Use of GALEX FUV Magnitudes,** [URL](#)

Sara Crandall, Graeme H. Smith, Arjun Subramonian, Kelly Ho, Evelyn M. Cochrane

Astronomical Journal

## Workshop Papers

**Networked Inequality: Preferential Attachment Bias in Graph Neural Network Link Prediction,** [URL](#)

Arjun Subramonian, Levent Sagun, Yizhou Sun

GLFrontiers @ NeurIPS 2023 Oral (15.4% acceptance rate)

**Prompting Multilingual Large Language Models to Generate Code-Mixed Texts:**

**The Case of South East Asian Languages,** [URL](#)

Zheng-Xin Yong, ..., Arjun Subramonian, ..., Alham Fikri Aji

CALCS @ EMNLP 2023

**Critical Technopolicy and Reflexivity For Proactive Gender-Inclusive NLP**

Davi Liang, Anaelia Ovalle, Arjun Subramonian, Alicia Boyd

Queer in AI @ ACL 2023

**Group Excess Risk Bound of Overparameterized Linear Regression with Constant-Stepsize SGD,** [URL](#)

Arjun Subramonian, Levent Sagun, Kai-Wei Chang, Yizhou Sun

Trustworthy and Socially Responsible Machine Learning @ NeurIPS 2022

**You Reap What You Sow: On the Challenges of Bias Evaluation Under Multilingual Settings,** [URL](#)  
Zeera Talat, ..., **Arjun Subramonian\***, ..., Oskar van der Wal\*  
Challenges & Perspectives in Creating Large Language Models @ ACL 2022

**How to Make Virtual Conferences Queer-Friendly: A Guide,** [URL](#)  
Organizers of QueerInAI, ..., **Arjun Subramonian**, ..., Nyx McLean  
Widening NLP @ EMNLP 2021

**Motif-Driven Contrastive Learning of Graph Representations,** [arXiv](#)  
Shichang Zhang, Ziniu Hu, **Arjun Subramonian**, Yizhou Sun  
Self-Supervised Learning @ WWW 2021

**Queer | Inclusive | Badass,** [URL](#)  
**Arjun Subramonian**  
Resistance AI Workshop @ NeurIPS 2020

## Preprints

**Theoretical and Empirical Insights into the Origins of Degree Bias in Graph Neural Networks,** [arXiv](#)  
Arjun Subramonian, Jian Kang, Yizhou Sun

**Survey of Bias In Text-to-Image Generation: Definition, Evaluation, and Mitigation,** [arXiv](#)  
Yixin Wan, **Arjun Subramonian**, ..., Kai-Wei Chang

**Weisfeiler and Leman Go Measurement Modeling: Probing the Validity of the WL Test,** [arXiv](#)  
**Arjun Subramonian**, Adina Williams, Maximilian Nickel, Yizhou Sun, Levent Sagun

**BLOOM: A 176B-Parameter Open-Access Multilingual Language Model,** [arXiv](#)  
Teven Le Scao, ..., **Arjun Subramonian**, ..., Thomas Wolf

**Selecting Core Subgraphs for Efficient Graph Neural Network Training,** [URL](#)  
**Arjun Subramonian\***, Harsh Chobisa\*

**Twitter Saliency Algorithm: Identifying Unintentional Harms to Gender Non-Conforming Individuals,** [URL](#)  
**Arjun Subramonian\***, Michael McKenna\*

**Fairness and Bias Mitigation: A practical guide into the AllenNLP Fairness module,** [URL](#)  
**Arjun Subramonian**

## Invited Talks

2024 - Queer In AI: A Case Study in Community-Led Participatory AI, Data & Society; [Slides](#)  
2023 - Bias, Discrimination, and Power: Graphs and Natural Language, KUNGFU.AI; [Slides](#)  
2023 - Bias and Power in NLP, USC ISI Natural Language Seminar; [Event](#), [Slides](#), [Video](#)  
2022 - Bias and Power in NLP (for future consultants), Paris; [Slides](#)  
2022 - Bias and Power in NLP, NLP Seminars at Dublin College University; [Slides](#)  
2022 - Guest Lecture: Bias in Natural Language Processing, COM SCI 263: NLP, UCLA; [Slides](#), [Video](#)  
2022 - Queer in AI: Making AI Queer-Inclusive and Prioritizing Grassroots D&I Activism, Humlab, Umeå University; [Slides](#), [Video](#)

2022 - Prioritizing Grassroots D&I Activism: Queer in AI, AAAI Workshop on Diversity in Artificial Intelligence; [Event](#), [Slides](#)  
2022 - Prioritizing Grassroots D&I Activism: Queer in AI, Nike Sport+AI Conference; [Event](#), [Slides](#)  
2021 - How Can I Make My Hackathon Queer-Inclusive?, Hackcon IX; [Slides](#), [Video](#)  
2019 - An Automated and Cost-Effective System for Early Antimicrobial Susceptibility Testing Using Optical Fibers and Deep Learning, UCLA HHMI Day; [Slides](#)

## Invited Panels

2024 - Artificial Intelligence and Democratic Values Roundtable, Center for AI & Digital Policy; [Event](#)  
2024 - UCLA Computer Science PhD Visit Day Panel  
2024 - UCLA ACM AI Outreach GALA Panel  
2024 - Queer Computation: A Critical Unmaking, Coding Inquiry, McMaster  
2024 - AI in the Time of Generative Models: Ensuring that Diverse Voices Are Heard, AAAI Workshop on Diversity in AI; [Event](#)  
2023 - Students with Disabilities Panel, UCLA  
2023 - US AI Policy: Next Steps  
2023 - Queer in AI National AI Advisory Committee Briefing; [Event](#), [Briefing](#), [Video](#), [Press](#), [Findings](#)  
2023 - Partnership on AI Inclusive Data Collection Workshop  
2023 - Data & Society Salon Series on Responsible AI in Government  
2022 - Students with Disabilities Panel, UCLA  
2022 - Accessibility and Inclusion Panel, Neuromatch Academy; [Video](#)  
2022 - Gender as a Variable in NLP, NAACL Queer in AI Workshop; [Event](#), [Video](#)  
2022 - NYU Center for Responsible AI Roundtable on Accessible AI Education  
2022 - Co-Opting AI: Queer, NYU's Institute for Public Knowledge; [Event](#), [Video](#)  
2022 - How Do We Improve DEI in AI?, Nike Sport+AI Conference  
2021 - Eye on A.I.: Equity & Inclusion in A.I. Technology, Toronto Public Library; [Video](#)  
2021 - Intersectionality Panel, NAACL; [Video](#)

## Honors

2023 - LoG Conference Top-10 Reviewer  
2023 - FAccT Best Paper Award; [Site](#)  
2022 - NSF MENTOR Fellowship  
2021 - AI2 Outstanding Intern of the Year; [Site](#)  
2021 - MLH Top 50; [Site](#)  
2021 - UCLA Samueli School-Wide Outstanding Bachelor of Science; [Site](#)  
2021 - UCLA Chancellor's Service Award; [Site](#)  
2021 - UCLA Samueli Engineering Achievement Award in Student Welfare; [Site](#)  
2021 - UCLA Eugene V. Cota-Robles Fellowship  
2021 - Boeing Company Scholarship  
2021 - Brian J. Lewis Endowment  
2018-2021 - UCLA Dean's Honors List  
2020 - Computing Research Association Outstanding Undergraduate Researcher Honorable Mention; [Site](#)  
2020 - IBM Quantum Challenge  
2019 - 3rd Place Award for Best Hack @ Rose Hack, Major League Hacking  
2017 - Siemens Competition Regional Finalist; [Site](#)  
2016 - Award of Achievement, Association for Computing Machinery, San Francisco Bay Area Professional Chapter

## Service

- **Reviewing:**

- **Conferences:** [ACL Ethics 2024](#), [FAccT 2024](#), [WebConf 2024](#), [LoG 2023](#), [NeurIPS Ethics 2023](#), [NeurIPS Datasets & Benchmarks Track 2023](#), [NeurIPS 2023](#), [KDD 2023](#), [FAccT 2023](#), [LoG 2022](#), [FAccT 2022](#)
- **Workshops:** [GLFrontiers @ NeurIPS 2023](#), [Queer in AI @ ACL 2023](#), [WOAH @ ACL 2023](#), [TrustNLP @ ACL 2023](#), [GLFrontiers @ NeurIPS 2022](#), [TSRML @ NeurIPS 2022](#), [TrustNLP @ NAACL 2022](#), [SRW @ NAACL 2022](#), [WOAH @ NAACL 2022](#), [BigScience @ ACL 2022](#)

- **Conference organization:**

- [LoG Outreach Chair \(2025\)](#)
- [FAccT Socials Chair \(2024, 2025\)](#)
- [NeurIPS Affinity Workshops Chair \(2022, 2023\)](#)
- [KDD EDI Day Chair \(2023\)](#)
- [NAACL Accessibility Chair \(2022\)](#)

- **Workshop organization:**

- [In Código of Hope: Possibilities of Global Solidarity and Activism in Academic Environments @ FAccT 2024](#)
- [Global AI Cultures @ ICLR 2024](#)
- **Queer in AI:** [AAAI 2021](#), [ICML 2021](#), [NeurIPS 2021](#), [FAccT 2022](#), [NAACL 2022](#), [ICML 2022](#), [ACL 2023](#)
- [Collaboratively Developing Evaluation Frameworks for Queer AI Harms @ FAccT 2022](#)

- **Policy:**

- [NIST AI Safety Institute Consortium](#)
- [FINDINGS: Exploring the Impact of AI](#)

- **Equity, Diversity, & Inclusion (EDI):**

- [Queer in AI core organizer](#)
- [Guides on Publication Accessibility, Quality, and Inclusivity and Poster and Talk Accessibility, Quality, and Inclusivity](#)
- [UCLA Samueli Standing Committee on Diversity member](#)
- [AllenNLP Hacks organizer](#)
- [QWER Hacks co-founder, organizer, panelist, and judge](#)
- [ACM at UCLA EDI director](#)
- [ACM AI at UCLA outreach director](#)
- [“You Belong in AI!” podcast creator and producer](#)

- **Teaching:**

- **UCLA:** [Computer Science 32 \(2023\)](#), [Computer Science Summer Institute \(2022, 2023\)](#)
- **North Hollywood High School:** [Intro to Machine Learning](#)
- **EDI:** [Guide on Gender and Pronouns for Instructors](#)

## Mentoring

I am fortunate to mentor brilliant students:

- Margaret Capetz
- Naisha Agarwal

## References

Yizhou Sun (yzsun@cs.ucla.edu)

Kai-Wei Chang (kwchang@cs.ucla.edu)

Levent Sagun (leventsagun@meta.com)