

# Arjun Subramonian (they/them)

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

Email: [arjunsu@cs.ucla.edu](mailto:arjunsu@cs.ucla.edu)

Website: [arjunsu.github.io](https://arjunsu.github.io)

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

GitHub: [github.com/ArjunSubramonian](https://github.com/ArjunSubramonian)

## 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 (2024)

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

**Networked Inequality: Preferential Attachment Bias in Graph Neural Network Link Prediction**

Arjun Subramonian, Levent Sagun, Yizhou Sun

ICML 2024 (27.5% acceptance rate)

**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  
TSRML @ 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](#)

## Service

- **Reviewing:**

- **Conferences:**

- \* NeurIPS ([NeurIPS 2023](#), [D&B 2023](#), [Ethics 2023](#))
    - \* FAccT ([2024](#), [2023](#), [2022](#))
    - \* LoG ([2023](#), [2022](#))
    - \* KDD ([2024](#), [2023](#))
    - \* ACL ([Ethics 2024](#))
    - \* WebConf ([2024](#))

- **Workshops:**

- \* NeurIPS ([GLFrontiers 2023](#), [GLFrontiers 2022](#), [TSRML 2022](#))
    - \* NAACL ([TrustNLP 2022](#), [WOAH 2022](#), [SRW 2022](#))
    - \* ACL ([TrustNLP 2023](#), [WOAH 2023](#), [Queer in AI 2023](#), [BigScience 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](#)
  - [Collaboratively Developing Evaluation Frameworks for Queer AI Harms @ FAccT 2022](#)
  - **Queer in AI:**
    - \* ICML ([2024](#), [2022](#), [2021](#))
    - \* NeurIPS ([2021](#))
    - \* ICLR ([2024](#))
    - \* AAAI ([2021](#))
    - \* NAACL ([2022](#))
    - \* ACL ([2023](#))

- **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](mailto:yzsun@cs.ucla.edu))  
Kai-Wei Chang ([kwchang@cs.ucla.edu](mailto:kwchang@cs.ucla.edu))  
Levent Sagun ([leventsagun@meta.com](mailto:leventsagun@meta.com))