

**Arjun Subramonian** (they/them) Email: [arjunsub@cs.ucla.edu](mailto:arjunsub@cs.ucla.edu)  
Computer Science Department Website: [arjunsubramonian.github.io](https://arjunsubramonian.github.io)  
University of California, Los Angeles Publications: [Semantic Scholar](#), [Google Scholar](#)  
Core Organizer, Queer in AI 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: 3.940  
Amazon Science Hub Fellow, 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 Papers, Journal Papers, and Book Chapters

**Theoretical and Empirical Insights into the Origins of Degree Bias in Graph Neural Networks**, [arXiv](#)  
**Arjun Subramonian**, Jian Kang, Yizhou Sun  
NeurIPS 2024 (25.8% acceptance rate)

**Understanding “Democratization” in NLP Research**, [arXiv](#)  
**Arjun Subramonian\***, Vagrant Gautam\*, Dietrich Klakow, Zeerak Talat  
EMNLP 2024

**Networked Inequality: Preferential Attachment Bias in Graph Neural Network Link Prediction**, [URL](#)  
**Arjun Subramonian**, Levent Sagun, Yizhou Sun  
ICML 2024 (27.5% acceptance rate)  
Graph Learning Frontiers @ NeurIPS 2023 Oral (15.4% acceptance rate)

**Evaluating the Social Impact of Generative AI Systems in Systems and Society**, [arXiv](#)  
Irene Solaiman\*, Zeerak Talat\*, ..., **Arjun Subramonian**  
Oxford University Press Handbook on Generative AI

**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 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)  
Women in Machine Learning @ NeurIPS 2021

**MOTIF-Driven Contrastive Learning of Graph Representations,** [URL](#)  
**Arjun Subramonian**  
AAAI 2021 Undergraduate Consortium (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  
The Astronomical Journal

## Workshop Papers

**Stop! In the Name of Flaws:**  
**Disentangling Personal Names and Sociodemographic Attributes in NLP,** [URL](#)  
Vagrant Gautam, **Arjun Subramonian**, Anne Lauscher, Os Keyes

Gender Bias in NLP @ ACL 2024

**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

Computational Approaches to Linguistic Code-Switching @ 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](#)

Zeeraq 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 @ NeurIPS 2020

## Preprints

### Survey of Bias In Text-to-Image Generation: Definition, Evaluation, and Mitigation, *in submission*, [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, *in submission*, [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 - From “Democratization” to Personal Names: Reimagining NLP Practices Towards Justice, UC Berkeley Data Science for Social Justice Workshop; [Slides](#)

2024 - ‘Queer-Inclusive’ AI: Contesting the Power Structures and Logics of Machine Learning, IBM Research Tech for Justice Seminar; [Slides](#)

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 - Challenges and Perspectives for queer and/or disabled communities presented by AI in HCI, ICML Queer in AI Workshop; [Event](#)  
 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

2024 - Amazon Science Hub Fellowship; [Site](#)  
 2023 - LoG Conference Top-10 Reviewer  
 2023 - Queer in AI Ford Foundation Research Grant; [Site](#)  
 2023 - FAccT Best Paper Award; [Site](#)  
 2022 - NSF MENTOR Fellowship  
 2021 - Allen AI Outstanding Intern of the Year; [Site](#)  
 2021 - Major League Hacking 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:**

- \* NeurIPS ([2024](#), [D&B 2024](#), [Ethics 2024](#), [2023](#), [D&B 2023](#), [Ethics 2023](#))
    - \* FAccT ([2024](#), [2023](#), [2022](#))
    - \* LoG ([2024](#), [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 and social organization:**

- [Evaluating Evaluations: Examining Best Practices for Measuring Broader Impacts of Generative AI @ NeurIPS 2024](#)
  - [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
- Pranav Subbaraman

## 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))