

Arjun Subramonian (they/them)

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

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Website: arjunsubramonian.github.io

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

GitHub: 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

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 Reimagining 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 (25.6% acceptance rate) Oral (9.8% acceptance rate), WiML Un-Workshop @ NeurIPS 2021

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

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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

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](#)
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

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

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, *in submission*, [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 - 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 - 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](#)

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 and social 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)
Kai-Wei Chang (kwchang@cs.ucla.edu)
Levent Sagun (leventsagun@meta.com)