

Arjun Subramonian (they/them) Email: arjunsub@cs.ucla.edu
Computer Science Department Website: arjunsubramonian.github.io
University of California, Los Angeles Publications: [Semantic Scholar](#), [Google Scholar](#)
Core Organizer, Queer in AI 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
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; FAIR Cost and Alignment (2024)
Research Intern; FAIR 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

An Effective Theory of Bias Amplification, *in submission*, [arXiv](#)

Arjun Subramonian, Samuel Bell, Levent Sagun, Elvis Dohmatob

Strong Model Collapse, *in submission*, [arXiv](#)

Elvis Dohmatob, Yunzhen Feng, **Arjun Subramonian**, Julia Kempe

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](#))
 - * ICLR ([2025](#))
 - * 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)

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

Levent Sagun (leventsagun@meta.com)