

## 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](#)

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 (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

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

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

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

**Bound to the Bounty: Collaboratively Developing Evaluation Frameworks for Queer AI Harms**

Organizers Of QueerInAI, Nathan Dennler, Anaelia Ovalle, Ashwin Singh, Luca Soldaini, **Arjun Subramonian**, Huy Tu, William Agnew, Avijit Ghosh, Kyra Yee, Irene Font Peradejordi, Zeerak Talat, Mayra Russo, 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**, [arXiv](#)

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

Findings of ACL 2023

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

Organizers of QueerInAI, Anaelia Ovalle, **Arjun Subramonian**, ...

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, Hetvi Jethwani\*, **Arjun Subramonian\***, William Agnew\*, MaryLena Bleile\*, Sarthak Arora\*, Maria Ryskina\*, 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, Derek Tseng, Paige M. K. Larkin, Susan Realegeno, Leanne Mortimer, **Arjun Subramonian**, Dino Di Carlo, Omai B. Garner, 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**

### **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, Aurélie Névél, Stella Biderman\*, Miruna Clinciu\*, Manan Dey\*, Shayne Longpre\*, Alexandra Sasha Luccioni\*, Maraim Masoud\*, Margaret Mitchell\*, Dragomir Radev\*, Shanya Sharma\*, **Arjun Subramonian\***, Jaesung Tae\*, Samson Tan\*, Deepak Tunuguntla\*, 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, A Pranav, MaryLena Bleile, **Arjun Subramonian**, Luca Soldaini, Danica Sutherland, Sabine Weber, Pan Xu, William Agnew, Michael McKenna, 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

**Weisfeiler and Lehman Go Measurement Modeling: Probing the Validity of the WL Test**

**Arjun Subramonian**, Adina Williams, Maximilian Nickel, Yizhou Sun, Levent Sagun

**BLOOM: A 176B-Parameter Open-Access Multilingual Language Model**, [arXiv](#)

Teven Le Scao, Angela Fan, Christopher Akiki, ..., **Arjun Subramonian**, ..., Yacine Jernite, Younes Belkada, Thomas Wolf

**Explaining Attention-Based Graph Neural Networks Post-Hoc With Attention Flows**, [URL](#)

Paymon Haddad\*, **Arjun Subramonian\***, Brian Tagle\*

**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**

**Robust Model-Agnostic Meta-Learning for Binary Content Moderation Tasks in Natural Language Processing**, [URL](#)

**Arjun Subramonian\***, John Arthur Dang\*

## Invited Talks

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

2023 - Queer in AI National AI Advisory Committee Briefing; [Event](#), [Briefing](#), [Press](#)

2023 - Partnership on AI Inclusive Data Collection Workshop

2023 - Data & Society Salon Series on Responsible AI in Government

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

- **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](#)

- **Conference organization:**

- [NeurIPS Affinity Workshops Chair](#) (2022, 2023)
- [KDD EDI Day Chair](#) (2023)
- [NAACL Accessibility Chair](#) (2022)

- **Workshop organization:**

- **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](#)

- **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 and organizer
- [ACM at UCLA EDI](#) director
- [ACM AI at UCLA outreach](#) director
- “[You Belong in AI!](#)” podcast creator and producer

## **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))