Arjun Subramonian (they/them)

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

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Publications: Semantic Scholar, Google Scholar
GitHub: github.com/ArjunSubramonian

Research Interests

machine learning, networks, natural language processing, fairness, 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

An Effective Theory of Bias Amplification, *URL*
Arjun Subramonian, Samuel Bell, Levent Sagun, Elvis Dohmatob
ICLR 2025 (32.08% acceptance rate)

Strong Model Collapse, *URL*
Elvis Dohmatob, Yunzhen Feng, **Arjun Subramonian**, Julia Kempe
ICLR 2025 Spotlight (5.1% acceptance rate)

SHADES: Towards a Multilingual Assessment of Stereotypes in Large Language Models, *URL*
Margaret Mitchell, …, **Arjun Subramonian**, …, Zeerak Talat
NAACL 2025 (22% acceptance rate)

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

Understanding "Democratization" in NLP Research, *URL*
Arjun Subramonian*, Vagrant Gautam*, Dietrich Klakow, Zeerak Talat
EMNLP 2024 (20.8% acceptance rate)

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

Pairwise Matching of Intermediate Representations for Fine-grained Explainability, *arXiv*
Lauren Shrack, Timm Haucke, Antoine Salaün, **Arjun Subramonian**, Sara Beery
CV4Animals @ CVPR 2025

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*
Zeerak 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

Agree to Disagree? A Meta-Evaluation of LLM Misgendering, *arXiv*
Arjun Subramonian, Vagrant Gautam, Preethi Seshadri, Dietrich Klakow, Kai-Wei Chang, Yizhou Sun

auto-fpt: Automating Free Probability Theory Calculations for Machine Learning Theory, *arXiv*
Arjun Subramonian, Elvis Dohmatob

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, *in submission*, *arXiv*
Teven Le Scao, …, **Arjun Subramonian**, …, Thomas Wolf

Fairness and Bias Mitigation: A practical guide into the AllenNLP Fairness module, *URL*
Arjun Subramonian

Public Scholarship

Queer AI Harms and Proposed Policy Interventions, *URL*
Organizers of QueerInAI, …, **Arjun Subramonian**, …

AI and Queer Communities, *URL*
Arjun Subramonian

FINDINGS: Exploring the Impact of AI, *URL*
National AI Advisory Committee, …, **Arjun Subramonian**, …

Queer in AI National AI Advisory Committee 2023 Briefing, *URL*
Organizers of QueerInAI, **Arjun Subramonian**

Rebuilding Trust: Queer in AI Approach to Artificial Intelligence Risk Management, *URL*
Organizers of QueerInAI, Ashwin S*, William Agnew*, Hetvi Jethwani*, **Arjun Subramonian***

Invited Talks

2025 - From "Democratization" to Personal Names: Reimagining NLP Practices Towards Justice,
USC ISI Natural Language Seminar; *Event*, *Slides*, *Video*
2024 - From "Democratization" to Personal Names: Reimagining NLP Practices Towards Justice,
Algorithmic Decision Systems (ADS) Reading Group, UC Berkeley; *Slides*
2024 - Queer In AI: A Case Study in Community-Led Participatory AI, Microsoft GLEAM Security; *Slides*
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 - QICSE Panel, UC Berkeley
ICML Queer in AI Workshop; *Event*

2024 - Challenges and Perspectives for queer and/or disabled communites 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 - Two Sigma PhD Fellowship Nominee, 1 of 6 students selected by UCLA

2024 - Amazon Science Hub Fellowship; *Site*

2024 - Google PhD Fellowship Nominee, 1 of 4 students selected by UCLA

2024 - JP Morgan PhD Fellowship Nominee, 1 of 2 students selected by UCLA

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)
    * ICML (2025)
    * ICLR (2025, Workshops 2025)
    * FAccT (2025, 2024, 2023, 2022)
    * LoG (2024, 2023, 2022)
    * KDD (2024, 2023)
    * ACL (Ethics 2024)
    * ICCV (2025)
    * 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 (2024)

  - FAccT Socials Chair (2024)

  - 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 (2025, 2022); ACL (2023)

- **Policy:**

    - [Queer in AI Policy Working Group](#)
    - [NIST AI Safety Institute Consortium](#)

- **Equity, Diversity, & Inclusion (EDI):**

    - [Queer in AI organizer](#)
    - [UCLA Samueli Standing Committee on Diversity member](#)
    - [AllenNLP Hacks organizer](#)
    - [QWER Hacks organizer](#)
    - [ACM AI at UCLA organizer](#)

- **Teaching:**

    - **UCLA:** [Computer Science 32](#) (2023), [Computer Science Summer Institute](#) (2022, 2023)

Mentoring

I am fortunate to have mentored brilliant students:

- Margaret Capetz (PhD at University of Washington)

- Naisha Agarwal

- Pranav Subbaraman

- Steven Swee

References

Yizhou Sun (`yzsun@cs.ucla.edu`)
Kai-Wei Chang (`kwchang@cs.ucla.edu`)
Levent Sagun (`leventsagun@meta.com`)
Elvis Dohmatob (`e.dohmatob@meta.com`)