Vishwali Mhasawade

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RESEARCH INTERESTS

Causal Inference, Algorithmic Fairness, Health Disparities

EDUCATION

New York University, New York, USA — 09/2019 - Present
Ph.D. in Computer Science. **Advisor: Rumi Chunara**

New York University, New York, USA — **09/2017 - 05/2019**
Master of Science in Computer Science. **Advisor: Rumi Chunara** — *CGPA : 3.785/4*

Pune University, Pune, India — **06/2013 - 06/2017**
Bachelor of Engineering in Computer Engineeing — *CGPA : 3.695/4*

AWARDS

Future Leaders Summit — *University of Michigan, Ann Arbor, 2023*
Rising Star in Data Science — *University of Chicago 2022*
Google PhD Fellowship — *2021*
Grad Cohort for Women workshop organized by Computing Research Association — *2021*
School of Engineering Fellowship — *New York University, 2019-2020*
Graduate Scholarship — *New York University, 2017-2019*

PUBLICATIONS

1. Vishwali Mhasawade.
Advancing Health Equity with Machine Learning.
AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society (AIES), 2023.

2. Harvineet Singh, Vishwali Mhasawade, Rumi Chunara.
Generalizability challenges of mortality risk prediction models: A retrospective analysis on a multi-center database.
PLOS Digital Health, 2022. [Link]

3. Vishwali Mhasawade, Yuan Zhao, Rumi Chunara
Machine learning and algorithmic fairness in public and population health
Nature Machine Intelligence, 2021 [Link]

4. Vishwali Mhasawade, Rumi Chunara.
Causal Multi-level Fairness.
AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society (AIES), 2021. [Link]

5. Harvineet Singh, Rina Singh, Vishwali Mhasawade, Rumi Chunara.
Fairness Violations and Mitigation under Distribution Shift.
ACM FAccT conference, 2021.
Fair ML for Health workshop at NeurIPS, 2019. **Spotlight presentation**. [Link]

6. Vishwali Mhasawade, Nabeel Abdur Rehman, Rumi Chunara.
Population-aware Hierarchical Bayesian Domain Adaptation via Multi-component Invariant Learning.
ACM Conference on Health, Inference and Learning, 2020.
Machine Learning for Health (ML4H) Workshop at NeurIPS, 2018. [Link]

7. Vishwali Mhasawade, Anas Elghafari, Dustin Duncan, Rumi Chunara.
Role of the Online and Built Social Environments in the expression of dining on Instagram.
International Journal of Environmental Research and Public Health, 2020. [Link]

WORKSHOPS, PRE-PRINTS

1. Vishwali Mhasawade, Alexander D'Amour, Stephen Pfohl.
A Causal Perspective on Label Bias.
Workshop on Algorithmic Fairness through the lens of time at NeurIPS, 2023.

2. Stephen Pfohl, Natalie Harris, Chirag Nagpal, David Madras, Vishwali Mhasawade, Olawale Salaudeen, Katherine Heller, Sanmi Koyejo, Alexander D'Amour.
Understanding subgroup performance differences of fair predictors using causal models.
Workshop on Distribution Shift at NeurIPS, 2023.

3. Vishwali Mhasawade, Rumi Chunara.
Disparate Effect of Missing Mediators on Transportability of Causal Effects.
Under Review

4. Vishwali Mhasawade, Rumi Chunara, Krishnaram Kenthapadi, Himabindu Lakkaraju.
The Disparate Impact of Privacy Risks of Model Explanations.
Under Review

5. Vishwali Mhasawade, Praveen Chandar, Ghazal Fazelnia, Benjamin Carterette.
Understanding User Podcast Consumption Using Sequential Treatment Effect Estimation.
Workshop on Causal Inference Challenges in Sequential Decision Making: Bridging Theory and Practice at NeurIPS, 2021.

WORK EXPERIENCE

Google Research — **San Francisco, USA**
Research Intern — *05/2023 - 08/2023*
PI: Dr. Stephen Pfohl and Dr. Alexander D'Amour

Fiddler AI — **California, USA**
Applied Research Intern — *05/2022 - 08/2022*
PI: Dr. Hima Lakkaraju and Dr. Krishnaram Kenthapadi

Spotify — **New York, USA**
Research Scientist Intern — *06/2021 - 09/2021*
PI: Dr. Praveen Chandar and Dr. Ghazal Fazelnia

POSITIONS OF RESPONSIBILITY

Master's Thesis Mentor, New York University — *2022,2023*
Mentoring master's thesis of two graduate students (Zhifan Gao and Xiaoting Chen).
Internship Mentor: ARISE Program, New York University — *Summer 2019, 2020,2022*
Mentored high school students in a STEM research exposure program.
Teaching Assistant: Deep Learning (CS-GY 9223), New York University — *Fall 2018*
Lab instructor: Pre-capstone Experience Course, New York University — *Fall 2021, Spring 2022*

TALKS

Machine Learning in Medicine Seminar Series, Cornell University, 2023

Doctoral Colloqium, ACM Conference on Health, Inference, and Learning, 2023

Doctoral Consortium, ACM Conference on Fairness Accountability and Transparency, 2023

Future Leader in Responsible AI, University of Michigan, 2023

Rising Stars in Data Science, University of Chicago, 2022

Panelist: Data Science Interdisciplinary Research Cluster, University of Toronto, 2021
Prediction, Machine Learning and Causal Inference: What does it mean for Population Health and Data Science?

Tutorial at ACM Conference on Health Inference and Learning, 2020.
Machine Learning in Population and Public Health.

SERVICE

Organizing Committee
Machine Learning for Health (ML4H), 2023.
Association for Women in Mathematics, 2021.

Reviewer
ACM FAccT 2023; ICLR, 2022, 2023; NeurIPS 2020,2021,2022; ICML, 2021, 2023; ACM CHIL, 2020, 2021; Machine Learning for Healthcare, 2021, 2022, 2023.

Facilitator
Women in Machine Learning, ICML, 2021.

Student Volunteer
ACM FAccT, 2022; AIES, 2021; WiML, NeurIPS, 2021.

Mentoring
Career Mentor, Machine Learning for Health, 2021.