Vishwali Mhasawade

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RESEARCH INTERESTS

Causal Inference, Algorithmic Fairness, Distribution Shift, 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

Rising Star in Data Science (University of Chicago)	*2022*
Google PhD Fellowship	*2021*
AIES funding	*2021*
Grad Cohort for Women workshop organized by Computing Research Association, funded by NSF	*2021*
WiML funding, NeurIPS 2020, 2021	
School of Engineering Fellowship	*New York University, 2019-2020*
Graduate Scholarship	*New York University, 2017-2019*

PUBLICATIONS

1. 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]

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

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

4. 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]

5. 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]

6. 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, Rumi Chunara, Krishnaram Kenthapadi, Himabindu Lakkaraju.
   Disparate Vulnerability to Privacy Attacks using Model Explanations
   Under Review

2. 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.

3. Vishwali Mhasawade, Rumi Chunara.
   Multi-Environment Functional Causal Models using Gaussian Processes.
   Workshop on Causal Inference for Decision Making, ICLR, 2020.

4. Gregory W. Johnsen, Ling Lin, Lucia Yu, Andrew Dempsey, Vishwali Mhasawade, Daniel Jaroslawicz, Iddo Drori.
   Explainable Musical Phrase Completion.
   Joint Workshop on Machine Learning for Music at ICML, 2018. [Link]

5. Vishwali Mhasawade, Ildikó Emese Szabó, Melanie Tosik, Sheng-Fu Wang.
   Neural Networks and Quantifier Conservativity : Does Data Distribution affect learnability?
   arXiv preprint arXiv:1809.05733, 2018. [Link]

WORK EXPERIENCE

Fiddler AI   **California, USA**
Applied Research Intern   *05/2022 - 08/2021*
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

FairFrame Inc.   **New York, USA**
Co-Founder and Machine Learning Head   *02/2018 - 11/2018*
Winner of NYU $300K Entrepreneurs Challenge, 2018.

In2things Automation Pvt. Ltd.   **Pune, India**
Software Development Intern   *12/2016 - 02/2017*

POSITIONS OF RESPONSIBILITY

Master's Thesis Mentor, New York University   *2022*
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*
Instructor: Iddo Drori

Lab instructor: Pre-capstone Innovation Experience Course *Fall 2021, Spring 2022*
New York University

TALKS

Rising Stars in Data Science, University of Chicago, 2022
Advancing Health Equity with Machine Learning

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.
arXiv preprint arXiv:2008.07278. [Link]

SERVICE

Organizing Committee
Association for Women in Mathematics, 2021.
Reviewer
ICLR, 2022, 2023
NeurIPS 2020,2021,2022
ICML, 2021
ACM Conference on Health, Inference and Learning, 2020, 2021.
Machine Learning for Healthcare, 2021, 2022.
Machine Learning in Real Life (ML-IRL) Workshop at ICLR, 2020.
Machine Learning for Health (ML4H) workshop at NeurIPS, 2019, 2020, 2021.
Machine Learning in Public Health (MLPH) workshop at NeurIPS, 2020,2021.
AI for Public Health workshop at ICLR, 2021.
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.

TECHNICAL SKILLS

Programming Languages: (Proficient) Python; (Familiar) R, C++, Matlab, Javascript.
Applications and Tools: LaTex, git, MS Office, Bash Scripting.