Vishwali Mhasawade

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RESEARCH INTERESTS

Causal Inference, Algorithmic Fairness, Multi-Environment Learning, Distribution Shift

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*

PUBLICATIONS

1. Harvineet Singh, Vishwali Mhasawade, Rumi Chunara.
   Challenges in Assessing Generalizability of Mortality Risk ScoringModels: A Retrospective Analysis on a Multicenter Database
   Under Review

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

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]

8. 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]

9. 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

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

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*

AWARDS

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*

POSITIONS OF RESPONSIBILITY

Internship Mentor: ARISE Program, New York University	*Summer 2019, 2020*
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	

TALKS

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

Tutorial at ACM Conference on Health Inference and Learning.
Machine Learning in Population and Public Health.
arXiv preprint arXiv:2008.07278 (2020). [Link]

SERVICE

Reviewer
ICLR, 2022
NeurIPS 2020,2021
ICML, 2021
ACM Conference on Health, Inference and Learning, 2020, 2021.
Machine Learning for Healthcare, 2021.
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
AIES, 2021.

TECHNICAL SKILLS

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