

# Vishwali Mhasawade

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## RESEARCH INTERESTS

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Multi-Environment Learning, Fair Domain Adaptation, Causal Inference, Algorithmic Fairness

## EDUCATION

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New York University, New York, USA <i>Ph.D. in Computer Science. Advisor: Rumi Chunara</i>	09/2019 - Present
New York University, New York, USA <i>Master of Science in Computer Science. Advisor: Rumi Chunara</i>	09/2017 - 05/2019 CGPA : 3.785/4
Pune University, Pune, India <i>Bachelor of Engineering in Computer Engineering</i>	06/2013 - 06/2017 CGPA : 3.695/4

## PUBLICATIONS

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- Vishwali Mhasawade, Rumi Chunara.  
**Causal Multi-level Fairness.**  
*Under Review*
- Harvineet Singh\*, Vishwali Mhasawade\*, Rumi Chunara.  
**Assessing Threats to Generalizability of Mortality Prediction Models across Hospitals.**  
*Under Review*
- 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]
- Vishwali Mhasawade, Yuan Zhao, Rumi Chunara  
**Machine Learning in Population and Public Health**  
*arXiv preprint arXiv:2008.07278, 2020* [Link]
- Vishwali Mhasawade, Rumi Chunara.  
**Multi-Environment Functional Causal Models using Gaussian Processes.**  
*Workshop on Causal Inference for Decision Making, ICLR, 2020.*
- 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]
- 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]
- 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

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**FairFrame Inc.**

*Co-Founder and Machine Learning Head*

*Winner of NYU \$300K Entrepreneurs Challenge, 2018.*

**New York, USA**

*02/2018 - 11/2018*

**In2things Automation Pvt. Ltd.**

*Software Development Intern*

**Pune, India**

*12/2016 - 02/2017*

## POSITIONS OF RESPONSIBILITY

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**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

## AWARDS

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WiML funding, NeurIPS 2020

School of Engineering Fellowship

Graduate Scholarship

*New York University, 2019-2020*

*New York University, 2017-2019*

## TALKS

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**Tutorial at ACM Conference on Health Inference and Learning.**

Machine Learning in Population and Public Health.

*arXiv preprint arXiv:2008.07278 (2020).* [Link]

## SERVICE

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**Reviewer**

NeurIPS, 2020

ICML, 2021

ACM Conference on Health, Inference and Learning, 2020, 2021.

Machine Learning in Real Life (ML-IRL) Workshop at ICLR, 2020.

Machine Learning for Health (ML4H) workshop at NeurIPS, 2019, 2020.

Machine Learning in Public Health (MLPH) workshop at NeurIPS, 2020.

## TECHNICAL SKILLS

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**Programming Languages:** (Proficient) Python; (Familiar) R, C++, Matlab, Javascript.

**ML Frameworks:** Tensorflow, PyTorch, Keras, Pyro, GPyTorch.

**Applications and Tools:** LaTeX, git, MS Office, Bash Scripting.