

# ***Robust and Causality-Oriented Prediction Models From Heterogeneous Data***

Dr. Armeen Taeb  
Assistant Professor



## ***Abstract***

---

Despite being challenging for iid-based statistical learning, heterogeneous data provides opportunities for causal inference and for learning prediction models that generalize to unseen scenarios. In this talk, I will discuss new connections between distributional robustness and causality, and how in the context of heterogeneous data, they provide simple methods for improving reliability and understanding in machine learning algorithms. The methods described can be viewed through the lens of robust optimization, and have wide-ranging prospects for application areas such as health sciences, commerce, and biological sciences.


## ***Bio***

---


Armeen Taeb is an assistant professor in the department of Statistics at UW. He completed his Ph.D. in Electrical Engineering at Caltech and was a Postdoctoral researcher at ETH Zurich. His research interests lie at the interface of optimization and statistics. Broadly speaking, he works on developing efficient methods for extracting useful and reliable information from complex datasets. Some themes of his work include latent variable modeling, model selection in non-traditional settings, and learning causal relations from data.

## ***Date & Time***

---

 May 23, 2023

 MEB 106

 11:30 am - 12:20 pm