Contact Details Name: Yachong Yang Gender: Female Phone: +1(215)669-9965 Email: yachong@wharton.upenn.edu Education The Wharton School, University of Pennsylvania Ph.D in Statistics GPA: 4.0/4.0

University of Science and Technology of China (USTC)Sept. 2015 – June 2019School of the Gifted Young *, B.S. in StatisticsGPA: 92.79/100 (3.97/4.0)Sum cum laude and with DistinctionGraduated with Guo Moruo Scholarship, the highest honor awarded to the top 1% of graduates each year

Current Address

3900 Chestnut Street, Apt 908, Philadelphia, PA 19104

Aug. 2019 – May. 2024 (Expected)

Research Interests

Machine Learning, Conformal Prediction, High-dimensional Statistics, Causal Inference

Papers and Conferences

• <u>Yachong Yang</u> , Arun Kuchibhotla, Eric Tchetgen Tchetgen,	UPenn, 2022
Doubly robust counterfactual inference with conformal prediction	
 Our works brings together transfer learning with missing data and causal Organized and presented this work at Joint Statistical Meeting Invited Se Presentation at American Causal Inference Conference 2022 Under revision at Journal of Royal Statistical Society, Series B 	inference ssion 2022
• Weijie Su, Hua Wang, <u>Yachong Yang</u> ,	UPenn, 2022
Effect size heterogeneity matters in high dimensional variable selecti	on
– Published in IEEE Transactions on Information Theory	
• <u>Yachong Yang</u> , Arun Kuchibhotla,	UPenn, 2021
Finite-sample efficient conformal prediction	
– Presentation in ICML conference, DFUQ Workshop	
 Under revision at Journal of the American Statistical Association 	
• Hua Wang, <u>Yachong Yang</u> , Zhiqi Bu, Weijie Su,	UPenn, 2020
The Complete Lasso Trade-off Diagram	
 Spotlight paper in NeurIPS conference 2020 Presentation in Statistical Learning and Data Science Session Joint 	Statistical Meetings 2020
• Qin Yu, Yang Li, <u>Yachong Yang</u> , Yumeng Wang, Zemin Zheng,	USTC, 2019
Scalable and Efficient Inference for High-dimensional Confidence Int	ervals
– Published in Communications in Statistics - Theory and Methods	
Industry experience	
• Research Scientist Internship at Amazon	Amazon, Summer 2022

*Founded in 1978, School of the Gifted Young of University of Science and Technology of China aims at educating top-notch students younger than regular students in China, usually from the age of 15 to 18.

Yachong Yang

- As part of the ASIN Forecasting team in the Supply Chain Optimization Technology (SCOT) at Amazon, my project involves leveraging the causal structure of Amazon's supply chain system to improve prediction accuracy for Demand Forecast. I leveraged a newly proposed machine learning model using Additive Gaussian Processes to improve attribution results using Shapley values and and prediction accuracy. To make my analysis more robust, I also applied ensembling methods such as bagging. My final result shows that causal structural information and statistical methods such as bias-correction could be combined to the effect that my proposed model improves statistical performance over 30% in terms of prediction accuracy, and at the same time retains interpretability.

Experiences

•	Teaching assistant	Wharton Statistics	and Data Science Department, UPenn
	 Stats 102: freshmen and sophomores Stats 431 & 731: upperclassmen and MBAs 		Fall 2020 & Spring 2021 Spring 2020
•	Statistical consultant of Statistics Clinic at University	ersity of Cambridge	Summer 2019
•	Visiting research student	I	University of Cambridge, Summer 2019
•	Visiting research student		Columbia University, Fall 2018

Technical Skills & Certificates

- Software and Programming: R, Python, MATLAB, C, Mathematica, LATEX, SQL
- Certificate for laudable and dedicated teaching
- Certificate for completing the Data Science for All program Correlation One, 2022

Wharton, 2022

Honors and Awards

• Penn 3 Minute Thesis competition Finalist Award	Mar. 2023
• Lawrence D. Brown Best Paper Award	Nov. 2022
• Wharton research travel grant award	Mar. 2022
• Winkelman Fellowship (awarded to one rising 3rd year PhD student annually who has shown	n the greatest
research potential across all departments at Wharton)	Jul. 2021
• Guo Moruo Scholarship (Highest honor awarded to undergraduates at USTC, top 1%)	2018
• Top 2% of American Mathematics Competition(AMC)12	2015
• 1st prize of Chinese Olympiad (Provincial Level) in Mathematics	2014
• 1st prize of Chinese Olympiad (Provincial Level) in Physics	2014