Siddharth Prusty

LinkedIn Profile

1500 Duke University Rd, Apt-C1B, Durham NC. siddharth.prusty@duke.edu +1-929-219-7747

EDUCATION Duke University, Durham, NC 2020-present PhD in Quantitative Marketing, CGPA: 3.9/4.00 Advisors: Professor Carl Mela and Professor Wilfred Amaldoss Columbia University, New York City, NY 2018-2020 Master of Science in Operations Research, CGPA: 3.70/4.00 Indian Institute of Technology Kanpur, Kanpur, India 2012-2016 B.Tech in Electrical Engineering with Minor in Algorithms, CGPA: 8.95/10.00 Substantive: Advertising auctions, Ad Effect Measurement, Pricing, Two-sided platforms Research Methodological: Structural Econometrics, Causal Inference, Analytical Modeling Interests SKILLS Python, SAS, SqL, R, Matlab, Mathematica, C, Stata, LATEX **Publications** Robust Importance Weighting for Covariate Shift (with Henry Lam and Fengpei Li) Proceedings of the Twenty Third International Conference on Artificial Intelligence and Statistics, PMLR 108:352-362, 2020. Working Papers Optimizing QScores for position auctions in marketplace (with Carl Mela & Hana Choi) - Optimizing Quality Score indices in position auctions for a 2-sided online marketplace, so as to maximize total marketplace revenue due to clicks and conversions. - Estimate a structural model to predict demand and supply side behaviour, and use it to optimize over the policy space of counterfactual QScore algorithms. Pricing sustainable products (with Wilfred Amaldoss) - Optimally pricing sustainable products in a competitive market where consumers have heterogeneous valuations on sustainability characteristics of goods. - Inform optimal level of firm investment in sustainability, and its moderation with competition. Professional IBM Research Labs, Research Intern, Armonk, NY Summer 2020 EXPERIENCE *Project:* Designing disruption robust supply chain contracts Mentors: Dr. Chandra Narayanaswami and Dr. Ashish Jagmohan American Express, Risk Data Analyst, Gurugram, India Part of credit underwriting team for New Accounts Strategy. Responsibilities include analyzing data to identify potential opportunities, and implementing new credit models and risk strategies. iRageCapital Advisory Pvt. Ltd., Quant Strategist Intern, Mumbai, India Summer 2015 École Normale Supérieure, Software Research Intern, Paris, France Summer 2014 *Project:* Validation of a compiler based on embedded systems AWARDS AND Columbia University, Shardashish Interschool Fellowship 2018 IIT Kanpur, Academic Excellence Award 2013Honors Honda Foundation, Honda Young Engineer and Scientist Award 2014

Relevant Coursework

- -Analytics: Algorithms for Machine Learning, Statistical Techniques in Datamining, Bayesian Models for ML, Optimization for ML, Supply Chain Analytics.
- -Econometrics: Causal Inference & Treatment Effects (PhD), Econometric Theory (PhD), Structural Econometrics (PhD), Descriptive Causal Models (PhD).
- -Theoretical: Microeconomic Theory (PhD), Stochastic Models sequence (PhD), Optimization Models sequence (PhD), Real Analysis.