

Srikar Katta

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EDUCATION

Duke University

PhD, Computer Science

Advisors: Cynthia Rudin, Alexander Volfovsky

Temple University

BS, Mathematics & Computer Science

Minors in Economics & Statistics

Durham, NC

August 2022 – Current

GPA: 3.9/4.00

Philadelphia, PA

August 2018 – May 2022

GPA: 3.96/4.00

PAPERS

- Rudin C, Zhong C, Semenova L, Seltzer M, Parr R, Liu J, **Katta S**, Donnelly J, Chen H, Boner Z. Amazing Things Come From Having Many Good Models. ICML 2024. **Spotlight Paper** (Top 3% of submissions).
- Donnelly J*, **Katta S***, Rudin, C. Browne, E. The Rashomon Importance Distribution: Getting RID of Unstable, Single Model-based Variable Importance. NeurIPS 2023. **Spotlight Paper** (Top 3% of submissions).
- **Katta S**, Parikh, H, Rudin, C, Volfovsky, A. Interpretable Causal Inference for Analyzing Wearable Device and Sensor Data. AISTATS 2024. **JSM 2024 Biometrics Section Paper Award. ACIC 2024 Oral.**
- **Katta S**, Song E, Parikh H, Rudin C, Volfovsky A, Sun H, Westover B. Why Machine Learning Fails to Learn Your Brain Age. **1st Place, AAI W3PHIAI 2023 Hackathon on Aging.**
- Hackett K, Yi J, **Katta S**, Giovannetti T, Jarcho J, Fareri F, Smith DV. Risk for Financial Exploitation: Characterizing the Interactive Roles of Sociodemographic, Health, and Psychosocial Variables. Submitted. **SRNDNA Open Data Award.**

AWARDS & HONORS

Biometrics Student Paper Award, Joint Statistics Meeting (\$1,000)

January 2024

1st Place Aging Hackathon, AAI W3PHIAI (\$1,000)

February 2023

Open Data Award, SRNDNA (\$1,500)

September 2022

Scott Hibbs Future of Computing Award, Temple University (\$600)

May 2022

Notable Mention, Disney Streaming Service Datathon

June 2021

CARAS Grant, Temple University (\$4,000)

May 2021

LAURA Grant, Temple University (\$2,000)

August 2019

Provost Scholarship, Temple University, (\$40,000)

August 2018

SERVICE

Session chair, INFORMS 2024: *Machine Learning Aided Causal Inference*

Reviewer: INFORMS Journal on Computing, IEEE International Symposium on Information Theory

Committee Member, Duke University CPS New Student Recruitment

TEACHING ASSISTANTSHIPS

CPS 590: Data Science, Duke University

Spring 2023, Fall 2023

STAT 3503/8109: Applied Statistics and Data Science, Temple University

Fall 2020

MATH 1031: Elements of Statistics/Data Science, Temple University

Spring 2020

CONFERENCE, INDUSTRY, AND ACADEMIC PRESENTATIONS

INRIA, Paris, FR (Virtual)

September 2024

Joint Statistics Meeting, Portland, OR

August 2024

American Causal Inference Conference, Seattle, WA

May 2024

Blue Cross Blue Shield, North Carolina, Raleigh, NC (Virtual)

April 2024

INFORMS Annual Meeting, Phoenix, AZ

October 2023

Joint Statistics Meeting, Toronto, CA

August 2023

INFORMS QSR, Raleigh, NC

May 2023

AAAI International Workshop on Health Intelligence, Washington, DC

February 2023

RESEARCH EXPERIENCE

Duke Almost Matching Exactly Lab

Durham, NC

Drs. Cynthia Rudin, Alexander Volfovsky

August 2022 – Current

- Developed anomaly detection and age estimation framework, boosting disease classification accuracy by 11%
- Created new pipeline for uncertainty quantification for variable importance while guaranteeing stability, improving the variable importance reproducibility by over 25%
- Developed interpretable causal inference method for analyzing wearable device data, outperforming existing baselines in estimating heterogeneous treatment effects by over 300%

Temple Data Science Institute

Philadelphia, PA

Drs. Edoardo Airolidi, Zoran Obradovic, Ken McAlinn, Jeanne Ruane

August 2020 – August 2022

- Devised network algorithm that produces more realistic networks 77% of the time than existing methods
- Automated topic and network modeling analyses for 600,000+ tweets, saving 60% in reporting time
- Developed data science textbook covering estimation strategies and probabilistic models with applications in R

Temple Neuroeconomics Lab

Philadelphia, PA

Dr. David V Smith

August 2018 – August 2022

- Raised \$6,000 to study the relationships between prosocial behavior and social cues using web data
- Researched decision making and financial scam susceptibility using field surveys ($N = 3000$) and lab experiments
- Trained 6 research assistants to wrangle and visualize data in R by creating and implementing 12 lesson plans

Federal Reserve Bank of Philadelphia

Philadelphia, PA

Research Intern

May 2019 – May 2020

- Used regression techniques to compare business' and professional forecasters' inflation expectations
- Advised policy by surveying 8,000+ local businesses on perspectives of economy and inflation levels
- Created surveys and analyzed and visualized data for 16 press releases; work cited by CNN, Reuters, and WSJ

TECHNICAL EXPERIENCE

Amazon

Seattle, WA

Applied Scientist Intern

May 2024–Current

- Automate analyses of customer-level experimental data at scale, reducing runtime by at least 10x
- Analyzed hundreds of customer level datasets with over 9 billion observations to generate causal insights under unobserved confounding
- Derived asymptotic behavior of new estimator, enabling computation of p-values and confidence intervals

Disney+ and ESPN+, Disney

New York, NY (Remote due to COVID-19)

Data Science Intern

May 2021 – August 2021

- Developed python package for evaluating supervised model performance across heterogeneous subpopulations
- Improved models predicting user churn, subscription propensity, and premier-access movie upsells by up to 10%
- Designed cross-platform recommender system, winning an honorable mention in internal datathon

Dyson, Inc

Chicago, IL (Remote due to COVID-19)

People Data Science Intern

June 2020 – August 2020

- Predicted COVID-19 cases using machine learning methods with 6.5% error rate to guide store reopenings
- Operationalized organizational chart development using R Shiny, saving \$25,000+ of work annually
- Automated HRIS data auditing using Python and developed Tableau dashboards, saving \$250,000+ annually
- Collaborated with non-technical HR team to conduct global gender pay analysis to restructure compensation plans

Bureau of Labor Statistics

Philadelphia, PA

Intern

January 2019 – May 2019

- Analyzed Bureau of Labor Statistics and Census Bureau datasets using R, including collection methods and usage
- Researched correlates of immigrant income gap in US states to inform immigration and labor policy