

Meredith Stewart

CURRICULUM VITAE — SEPTEMBER 2025

mds010@ucsd.edu

mds010.github.io

EDUCATION	<div>University of California, San Diego2024 – 2026</div> <div>M.S. in Computer Science</div> <div>Thesis: Statistical Approaches to Model Responsiveness</div> <div>Advisor: Berk Ustun</div> <div>Georgia Institute of Technology2018 – 2022</div> <div>B.S. in Computer Science, <i>Highest Honors</i></div> <div>GPA: 3.9/4.0</div> <div>Advisor: James Rehg</div> <div>Thesis: Regression Techniques for Predicting Language Development</div>
RESEARCH INTERESTS	<div>Areas: Machine Learning, Optimization, Theoretical Computer Science</div> <div>Topics: Algorithmic Fairness, Data Privacy, Governance, Safety</div>
AWARDS & HONORS	<div>Omicron Delta Kappa (Leadership Honor Society)2021 – 2022</div> <div>Pi Delta Phi (French Honors Society)2022</div> <div>Thank a Teacher Award2019</div>
PAPERS	<div>1. Statistical Inference for Responsiveness Verification</div> <div>Seung Hyun Cheon*, Meredith Stewart*, Bogdan Kulynych, Tsui-Wei Weng, Berk Ustun</div> <div><i>In Submission</i>, 2025</div> <div>2. Concept Benchmarking</div> <div>Seung Hyun Cheon, Shreyas Kadekodi, Ryan Hammond, Julian Skrzynski, Meredith Stewart, Berk Ustun</div> <div><i>In Preparation</i>, 2025</div> <div>3. Learning with Responsiveness Guarantees</div> <div>Meredith Stewart, Tsui-Wei Weng, Berk Ustun</div> <div><i>In Preparation</i>, 2025</div>
TEACHING EXPERIENCE	<div>Georgia Institute of TechnologySPRING 2019</div> <div>CS1371: Computing for Engineers</div> <div><i>Teaching Assistant</i></div> <div><ul style="list-style-type: none">Planned and conducted lectures on introductory computer science concepts (e.g., recursion, images, loops) in MATLABWrote homework questions, graded tests, and maintained class infrastructure for a class of 350 undergraduate engineering students</div>
LEADERSHIP & SERVICE	<div>ACADEMIC SERVICE</div> <div>NeurIPS Workshop for Algorithmic Collective Action2025</div> <div>LEADERSHIP</div> <div>President, Data Science at Georgia Tech2020 – 2021</div> <div>External Affairs Director, Data Science at Georgia Tech2019 – 2020</div> <div>CPC Delegate, Alpha Omega Epsilon (Georgia Tech)2020 – 2021</div>
SOFTWARE	<div>infeasible-recourse – Re-implement MILP backend in SCIP</div>
PROFESSIONAL EXPERIENCE	<div>Microsoft2022 – 2024</div> <div><i>Software Engineer, Power Capping Team</i></div>

- **Designed and implemented online learning** pipeline in C++ to predict per-VM power usage using accessible VM and server utilization information.
- **Analyzed** per-VM power utilization and performance data across the Azure fleet using **Kusto** to facilitate infrastructure improvements.
- Implemented additional power configuration using C++, improving power usage in datacenters by 7%.
- Implemented security event logs using OpenTelemetry

Microsoft. Seattle, WA

SUMMER 2021

Software Engineering Intern, Power Capping Team

- Designed and implemented an emergency shutdown mechanism in C# to minimize customer-facing impact
- Produced design specs, documentation, and presentation on the goals, process, and future development.

Rehg Lab

2019 – 2022

Undergraduate Research Assistant

- Analyzed performance of machine learning pipeline to detect eye contact and its application to language outcomes.
- Researched and developed machine learning experiments using Sklearn to determine correlation between children's eye contact and language development, resulting in undergraduate thesis.

Symbotic

SUMMER 2020

Software Engineering Intern, Inventory Allocation Team

- **Implemented** alarm system for C# microservices to alert users when key services were unhealthy
- **Designed and implemented** algorithm to ensure even inventory distribution across rows/shelves in warehouses.

PERSONAL

Languages: Fluent in English and French

Software: Proficient in Python, MATLAB, and C#. Familiar with Java, R, and C++.

Interests: Irish Dance, French History, Literature, Tennis, Cooking