

# Meredith Stewart

CURRICULUM VITAE — OCTOBER 2025

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[mds010.github.io](https://mds010.github.io)

EDUCATION	University of California, San Diego	2024 – 2026
	M.S. in Computer Science Thesis: Statistical Approaches to Model Responsiveness Advisor: Berk Ustun	
	Georgia Institute of Technology	2018 – 2022
	B.S. in Computer Science, <i>Highest Honors</i> Advisor: James Rehg Thesis: Regression Techniques for Predicting Language Development	GPA: 3.9/4.0
RESEARCH INTERESTS	Areas: Machine Learning, Optimization, Theoretical Computer Science Topics: Algorithmic Fairness, Data Privacy, Governance, Safety	
AWARDS & HONORS	Omicron Delta Kappa (Leadership Honor Society)	2021 – 2022
	Pi Delta Phi (French Honors Society)	2022
	Thank a Teacher Award	2019
PAPERS	1. <a href="#">Statistical Inference for Responsiveness Verification</a> Seung Hyun Cheon*, Meredith Stewart*, Bogdan Kulynych, Tsui-Wei Weng, Berk Ustun <i>In Submission</i> , 2025	
	2. <a href="#">Measuring What Matters in Concept Bottleneck Models: An Evaluation Framework</a> Seung Hyun Cheon, Shreyas Kadekodi, Ryan Hammond, Julian Skirzynski, Meredith Stewart, Berk Ustun <i>In Preparation</i> , 2025	
	3. <a href="#">Learning with Responsiveness Guarantees</a> Meredith Stewart, Tsui-Wei Weng, Berk Ustun <i>In Preparation</i> , 2025	
TEACHING EXPERIENCE	UC San Diego	FALL 2025
	<a href="#">DSC 210: Numerical Linear Algebra</a> <i>Teaching Assistant</i> <ul style="list-style-type: none"><li>Wrote and graded homework questions and maintained class website + Piazza for a class of 150+ graduate data science students</li></ul>	
	Georgia Institute of Technology	SPRING 2019
	<a href="#">CS1371: Computing for Engineers</a> <i>Teaching Assistant</i> <ul style="list-style-type: none"><li>Planned and conducted lectures on introductory computer science concepts (e.g., recursion, images, loops) in MATLAB</li><li>Wrote homework questions, graded tests, and maintained class infrastructure for a class of 350 undergraduate engineering students</li></ul>	
LEADERSHIP & SERVICE	ACADEMIC SERVICE	
	NeurIPS Workshop for Algorithmic Collective Action	2025
	LEADERSHIP	
	<i>President</i> , Data Science at Georgia Tech	2020 – 2021
	<i>External Affairs Director</i> , Data Science at Georgia Tech	2019 – 2020
	<i>CPC Delegate</i> , Alpha Omega Epsilon (Georgia Tech)	2020 – 2021

SOFTWARE [reachml](#) – Re-implement MILP backend in SCIP

PROFESSIONAL EXPERIENCE **Microsoft.** 2022 – 2024  
*Software Engineer, Power Capping Team*

- **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