# Meredith Stewart

Curriculum Vitae — July 2025

mds010@ucsd.edu
mds010.github.io

## Education

**University of California, San Diego** 2024 – Present
MS in Computer Science
Advisor: Berk Ustun

**Georgia Institute of Technology** 2018 – 2022
GPA: 3.9/4.0
BS in Computer Science **Courses**: Linear Algebra (A), Combinatorial Analysis (A), Multivariable Calculus (A), Algorithms (A), Advanced Algorithms (A), Deep Learning (A), Machine Learning (A), Probability and Statistics (A), Discrete Math (A),

## Research Interests

**Areas:** Machine Learning, Optimization, Human-Centered Design
**Topics:** Interpretability, Algorithmic Fairness, Reliability, Governance
**Domains:** Medicine, Consumer Finance, Criminal Justice, Revenue Management

## Awards & Honors

Pi Delta Phi (French Honors Society) 2022
Omicron Delta Kappa (Leadership Honor Society) 2021 – 2022
Thank a Teacher Award 2019

## Publications

### Preprints 1.

Statistical Inference for Responsiveness Verification
Seung Hyun Cheon, **Meredith Stewart**, Bogdan Kulynych, Tsui-Wei Weng, Berk Ustun
, 2025

## In Progress

Learning with Responsiveness Guarantees
with Lily Weng, and Berk Ustun

## Research Experience

**Rehg Lab** 2019 – 2022
*Undergraduate Research Assistant*
Analyzed performance of machine learning pipeline to detect eye contact and its application to language outcomes.

## Teaching Experience

**Georgia Institute of Technology** 2019 – 2019
*CS1371 Teaching Assistant*
Wrote homework questions, graded tests and homework, planned and conducted lectures, and maintained class infrastructure.

## Academic Service

### Workshop Program Committee

NeurIPS Workshop for Algorithmic Collective Action 2025

## Selected Professional Experience

**Microsoft**. Atlanta, GA 2022 – 2024
*Software Engineer*

- Implemented online learning pipeline in C++ to predict per-VM power usage.
- Analyzed per-VM performance using Kusto.
- Improved power usage efficiency by 7% by adding a power configuration option.

**Microsoft**. Seattle, WA Summer 2021
*Software Engineering Intern*

– Designed and implemented an emergency shutdown mechanism to minimize customer impact in C#.

**Symbotic**. Wilmington, MA Summer 2020
*Software Engineering Intern*

– Implemented alarm system for C# microservices to alert users when key service dependencies were unhealthy
– Designed and implemented algorithm to ensure even inventory distribution using entropy

## Personal

**Languages:** Fluent in English and French
**Software:** Proficient in Python and C#. Familiar with Java, R, Matlab, and C++.
**Interests:** Irish Dance, French History, Literature, Tennis, Cooking

## References