

Mirabel Reid

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EDUCATION

Georgia Institute of Technology, Atlanta, GA

Pursuing PhD in Computer Science

Sep 2020-Present

GPA: 3.94

University of Pittsburgh, Pittsburgh, PA

Bachelor of Science

Sep 2016-April 2020

Double Major in Computer Science, Mathematics

GPA: 4.0

Technical Skills: Python, MATLAB, C++, SQL, Git

WORK EXPERIENCE

Los Alamos National Laboratory

Research Intern

May 2022-Present

- Research improvements for Machine Learning workflows for scientific applications.
- Work with **Python** and **SQL** to build metadata storage and visualization solutions.

Georgia Tech

Atlanta, GA

Research Assistant

Sept 2020-Present

- Investigate a neuroscience-inspired model for learning and computation over graphs.
- Perform mathematical analysis to prove convergence properties of the model.
- Create simulations using **Python** to demonstrate these properties.

Software Engineering Institute

Pittsburgh, PA

Intern: Emerging Technology Center, Software Solutions Division

Jan 2020-Aug 2020

- Engaged in application-centric machine learning research
- Implemented machine learning solutions in **PyTorch** and **ROS**

Civic Data Science Intern

May 2019-Aug 2019

- Collaborated with city officials and research faculty to analyze the impact of federal housing policies in the city of Albany, Georgia
- Created a research-grade database by connecting disparate civic data sources with **Python** and **SQL**
- Presented on database to city officials and Georgia Tech community members

University of Pittsburgh

Pittsburgh, PA

Research Assistant

Jan 2017-Dec 2019

- Worked independently to collect data from research publications
- Used **MATLAB** and **C++** to build algorithms which analyze and interpret over 20GB of data

HONORS/AWARDS

ARC Triad Research Fellowship

Nov 2021

Georgia Tech Presidential Fellowship

Apr 2020

Culver Award (Achievement in Mathematics)

Apr 2020

SCI Sponsorship to attend Grace Hopper Conference

Oct 2019

Putnam Mathematics Competition, Top 20%

Dec 2019

Brackenridge Research Fellowship

May 2018

PUBLICATIONS

Reid, Mirabel, and Santosh S. Vempala. "The k-Cap Process on Geometric Random Graphs." *arXiv preprint arXiv:2203.12680* (2022).

LEADERSHIP & INVOLVEMENT

- (Fall 2021) Teaching Assistant for the Introduction to Graduate Algorithms course.
- (Fall 2017 and Spring 2019) Conducted recitation for introductory programming courses.