

Samsara Counts

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EDUCATION

GEORGE WASHINGTON UNIVERSITY

BS IN COMPUTER SCIENCE

BS IN MATHEMATICS

Aug. 2015 – May 2019 (expected)

Minor in Creative Writing

School of Engineering & Applied Science

Cum. GPA: 3.52 / 4.0

Major GPA: 3.63 / 4.0

LINKS

Github [samsaranc](#)

LinkedIn [samsaranc](#)

COURSEWORK

Machine Learning

Computer Vision

Graph Theory

Algorithms and Data Structures

Continuous Algorithms

Operating Systems

Real Analysis

Probability for Computer Science

Linear Algebra

Abstract Algebra I & II

Theory of Computing

Discrete Structures I & II

Software Engineering

SKILLS

PROGRAMMING

Python • Java • C • MATLAB • GAP

LaTeX • Bash • HTML • SQL • CSS • R

SOFTWARE

git • PyTorch • Mathematica • Django

SPOKEN LANGUAGES

Spanish (fluent) • English (native)

MAJOR PROJECTS

THE DEAN'S COUNCIL OF WOMEN IN TECHNOLOGY

Founded DCWiT, a SEAS Dean's organization supporting and connecting GW women pursuing STEM fields

HACKITAL

Led a 500-person hackathon to engage the community in developing tech solutions to mitigate online harassment

RESEARCH

DEEP LEARNING & ONLINE CONTENT

Nov. 2017 – Present | Washington, DC | Advisor: Robert Pless

Use deep learning to recognize images of Eating Disorders (ED) with the aim of building tools to improve ED patient health outcomes. Use notions of geometric and combinatorial diversity to improve classifier test and training accuracy.

ARTIFICIAL INTELLIGENCE FOR SOCIAL GOOD

May 2017 – Present | College Park, MD | Advisor: John Dickerson

Design a multi-armed bandit algorithm to ensure diversity and fairness in an automated admissions process. Analyze past admissions data to investigate the possibility of bias in previous decisions. Design a system using deep Reinforcement Learning to choose matching policies for dynamic kidney exchange.

WORK EXPERIENCE

MICROSOFT RESEARCH | RESEARCH INTERN

Summer 2018 | Cambridge, MA | Advisor: Henry Cohn

- Used group theory to speed up matrix multiplication algorithms, solving an optimization problem over the search space of finite groups.
- Implemented and designed abstract algebraic algorithms in GAP.

UNIVERSITY OF MARYLAND COLLEGE PARK | RESEARCH INTERN

Summer 2017 | College Park, MD | Advisor: John Dickerson

- Worked at the Combinatorics and Algorithms for Real Problems REU at UMD.

LEARNING TECHNOLOGIES RESEARCH LAB | RESEARCH ASSISTANT

Summer 2016 | Washington, DC | Advisor: Rahul Simha

- Developed a website with for adults to improve their English literacy. Identified high-quality datasets for training NLP algorithms and cleaned them in Python.

GW COMPUTER SCIENCE DEPT. | TEACHING ASSISTANT

August 2016 – Present | Washington, DC

- Lead a lab section and assist professors with in-class exercises for Discrete Structures II, Algorithms and Data Structures, and Intro. to Computer Science
- Host office hours and review sessions to assist students with course material

BREAKTHROUGH COLLABORATIVE | CHEMISTRY TEACHING FELLOW

May 2015 – August 2015 | Fort Worth, TX

- Taught Chemistry, achieving 328% student growth in post-assessment scores

PUBLICATIONS

- 2018 Characterizing the Visual Social Media Environment of Eating Disorders
2018 The Diverse Cohort Selection Problem: Multi-Armed Bandits with Varied Pulls

AWARDS

- | | | |
|------|-------------------------------------|---|
| 2018 | Best Student Paper Presentation | Appl. Imagery & Pattern Recog. Workshop |
| 2018 | Google Lime Scholar | Google |
| 2018 | Collegiate Award, Honorable Mention | NCWiT |
| 2018 | GW Undergrad. Research Award | GW Office of the VP for Research |
| 2018 | Tomodachi Kakehashi Scholar | Government of Japan |
| 2017 | HackHarassment Grant | Intel & the Born This Way Foundation |

SOCIETIES

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|--------------|----------------|------------------------------------|
| 2016-Present | Vice President | GW Assoc. for Computing Machinery |
| 2016-Present | Mentor | SEAS Student Peer Advisory Network |