

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](#)
Twitter [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 • 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

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

RESEARCH

MACHINE LEARNING & ONLINE CONTENT

Nov. 2016 – 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 The Diverse Cohort Selection Problem: Multi-Armed Bandits with Varied Pulls
2017 Recognizing Images of Eating Disorders in Social Media (Abstract)

AWARDS

2018	Best Student Paper	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

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