

Samsara Counts

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EDUCATION

GEORGE WASHINGTON UNIVERSITY

BS IN COMPUTER SCIENCE

BS IN MATHEMATICS

Minor in Creative Writing

Conc. in Artificial Intelligence

School of Engineering and Applied Science

Cum. GPA: 3.5 / 4.0

Major GPA: 3.6 / 4.0

LINKS

Github:// [samsaranc](#)

LinkedIn:// [samsaranc](#)

Twitter:// [@samsaranc](#)

COURSEWORK

Continuous Algorithms

Algorithms

Operating Systems

Probability for Computer Science

Linear Algebra

Abstract Algebra

Computational Complexity Theory

Discrete Structures II & I

Software Engineering

Systems Programming

Computer Architecture

Algorithms and Data Structures

SKILLS

PROGRAMMING

Python • C • Java • Shell

LaTeX • HTML • SQL

CSS • SAS • Scala • R

SOFTWARE

Git • Mathematica • MATLAB

SAS • VAN • GIS • Play Framework

SPOKEN LANGUAGES

Spanish (fluent)

English (native)

MAJOR PROJECTS

HACKITAL

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

RESEARCH

ARTIFICIAL INTELLIGENCE RESEARCH | UNDERGRAD RESEARCHER

Design and implement a system using deep reinforcement learning to choose matching policies for dynamic kidney exchange. Improve a function embedding graphs into fixed-sized vectors that is invariant under graph size. Develop a system using reinforcement learning to ensure diversity and fairness in an automated admissions process. Statistically analyze past admissions data to investigate the possibility of bias in previous decisions.

ONLINE HARASSMENT ML RESEARCH | UNDERGRAD RESEARCHER

Nov. 2016 – Present | Washington, DC

Develop a classifier that robustly detects different forms of online harassment from multimodal data. Study the prevalence of online harassment at GW, funded by a HackHarassment Grant. Refine the definition of online harassment to enable better automatic detection informed by results from a university-wide survey.

GW LEARNING TECHNOLOGIES RESEARCH LAB | RESEARCHER

May 2016 – May 2017 | Washington, DC

Generated reading comprehension questions from input passages with Google N-grams and word occurrences. Developed a website with the Play Framework for adults to improve their English literacy. Identified high-quality datasets for training Natural Language Processing algorithms and cleaned them in Python.

EXPERIENCE

UNIVERSITY OF MARYLAND COLLEGE PARK | RESEARCHER

June 2017 – Aug. 2017 | College Park, MD

- Did research with John P. Dickerson funded by the National Science Foundation (10/290) at the Combinatorics and Algorithms for Real Problems REU.

GW COMPUTER SCIENCE DEPT. | LEARNING ASSISTANT

August 2016 – Present | Washington, DC

- Assist professors with in-class exercises for Algorithms and Data Structures (Spring '17) and Introduction to Computer Science (Fall '16, '17)
- Host office hours and review sessions to assist students with course material

BREAKTHROUGH COLLABORATIVE | CHEMISTRY TEACHING FELLOW

May 2015 – August 2015 | Fort Worth, TX

- Authored and taught Chemistry curriculum, achieving 328% student growth in post-assessment scores at a program for gifted underrepresented students
- Facilitated a daily film club for students and wrote college-level curriculum

PUBLICATIONS

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

AWARDS

- 2017 HackHarassment Grant
- 2017 Anita Borg Institute Scholar
- 2016 C.S. Research Fellow
- 2016 1st
- Intel & the Born This Way Foundation
- Grace Hopper Celebration of Women in Computing
- School of Engineering Summer Research Fellowship
- GW English Dept. Citizen Day Poetry Contest

SOCIETIES

- 2016-2017 President
- 2015-2016 Vice President
- 2016-2017 Mentor
- GW Association for Computing Machinery
- The Association of Queer Women and Allies
- SEAS Student Peer Advisory Network