

# 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 and Applied Science

Cum. GPA: 3.47 / 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

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

### 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

### ARTIFICIAL INTELLIGENCE RESEARCH | UNDERGRAD RESEARCHER

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

- 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 RESEARCH | UNDERGRAD RESEARCHER

Nov. 2016 – Present | Washington, DC | Advisor: Robert Pless

- Develop classifiers to detect harmful content online from multimodal data. Study online harassment through a university-wide survey, funded by a HackHarassment Grant. Refine the definition of online harassment to improve automatic detection.

### GW LEARNING TECHNOLOGIES RESEARCH LAB | RESEARCHER

May 2016 – May 2017 | Washington, DC | Advisor: Rahul Simha

- 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 – August 2017 | College Park, MD

- Did research with John P. Dickerson funded by the National Science Foundation (20/290 apps.) 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

## 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         | Intel & the Born This Way Foundation             |
| 2017 | Tomodachi Inouye Scholar     | GW School of Engineering and Applied Science     |
| 2017 | Anita Borg Institute Scholar | Grace Hopper Celebration of Women in Computing   |
| 2016 | GW C.S. Research Fellow      | School of Engineering Summer Research Fellowship |
| 2016 | 1st                          | GW English Dept. Citizen Day Poetry Contest      |

## SOCIETIES

- |              |                                 |                                      |
|--------------|---------------------------------|--------------------------------------|
| 2016-Present | Academic Affairs, was President | GW Assoc. for Computing Machinery    |
| 2016-Present | Mentor                          | SEAS Student Peer Advisory Network   |
| 2015-2016    | Freshman Representative         | The Assoc. of Queer Women and Allies |