

Education

Columbia University, New York, NY

Expected May 2021

PhD, Biomedical Informatics

- Selected Coursework: Research Methods, Big Data Analytics, Data Science for Mobile Health, Quality in Healthcare

Carleton College, Northfield, MN

June 2013

Bachelor of Arts, Psychology and Cognitive Science; Cumulative GPA 3.85

- Selected Coursework: Behavioral Neuroscience, Social Cognition, Artificial Intelligence, Thinking Reasoning & Decision Making
- Awards: Magna Cum Laude; Phi Beta Kappa; Sigma Xi; Dean's List; Distinction for senior comprehensive research project

Competitions & Leadership

CMS AI Health Outcomes Challenge (*Current Finalist*)

June 2019 – Present

- Team lead and project manager for Stage 1 finalist team of students from Columbia Department of Biomedical Informatics
- Spearhead organization, vision, and implementation of a neural network to predict unplanned hospital admission, with a front end prototype that focuses on clinical actionability and interpretability

American Medical Informatics Association (AMIA) Student Design Challenge (*Winner*)

November 2017, November 2018

- Presented the design and feasibility of a concept intervention to improve diabetes self-management with conversational AI

Alexa Diabetes Challenge (*Top 5 Finalist*)

May 2017 – August 2017

- Lead an interdisciplinary team to ideate and implement an original prototype conversational agent for Amazon Alexa
- Pitched our concept and proposed business strategy at AWS demo day

Work Experience

Columbia University, New York, NY

Graduate Research Assistant

September 2016 – Present

- Research technology that combines data science and conversational AI as a data-driven health coach to support patients with diabetes and improve self-care outcomes
- Support ideation, software development sprints, testing, and logistics of advisor Lena Mamykina's R01 research grant
- Interview patients and providers about software prototypes in the human-centered design process
- Designed, developed, and integrated into production a system that recommends personalized nutrition goals for patients with diabetes using a machine learning pipeline with patient-generated data and a Python backend

Columbia Technology Ventures Fellow

January 2019 – January 2020

- Provided early-stage patent and competitive analysis for technologies invented at Columbia

Epic, Madison, WI

Technical Coordinator

May 2015 – June 2016

- Advised on the technical and operational success of Epic software as the primary point of contact for the project director at a large ambulatory health network organization in the pacific northwest
- Optimized the delivery and communication of code updates to improve client standing from "watch list" to "stable"
- Coordinated the multi-stakeholder process of upgrading client's Epic software version
- Oversaw team of 17 Epic staff, providing feedback and growth opportunities

Technical Services

August 2013 – June 2016

- Fostered relationships as the primary point of contact for the OpTime operating room management system for multiple healthcare organizations
- Diagnosed complex software bugs and developed code fixes for release to customers
- Strategized feature implementation and workflow augmentation customer team counterparts

The Sponsor Shop, Turner Entertainment Networks, TBS/TNT, Atlanta, GA

Sponsorship Solutions Intern

June 2012– August 2012

- Analyzed key performance indicators and conducted a competitive analysis to inform long-term strategy

Bon Appetit at Carleton College, Northfield, MN

Student Manager

September 2010 – June 2013

- Coordinated 80 student workers across two on-campus dining halls as a team of 10 student managers

Service

- TEALS Co-teach Volunteer** for Intro to Computer Science two days per week at the Inwood Academy for Leadership, 2019
- Student Programming Committee (SPC)** member for 2019 National Library of Medicine Informatics Training Conference

Skills & Interests

Advanced: Python, R, SQL, MATLAB, Docker, macOS, Windows, and Linux

Experienced: Go, Hadoop, Spark, M/Caché, HTML/CSS, Node.js, PyTorch, Keras, AWS, and Google Cloud

Language: Intermediate Spanish

Nationality: Dual citizen, USA and Canada

Interests: Theater (*Alexa, wait for Godot*, Yale School of Drama 2019 Satellite Series Festival); Guitar and jazz piano