Abhinav Madahar

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EXPERIENCE

Prof. Sungjin Ahn September 2018 — Present
Research Assistant *Rutgers University*

· Applying reinforcement learning to train autonomous virtual robots.
· Developing convolutional neural networks with recurrent-neural-network-like properties.

Johnson & Johnson May 2018 — August 2018
Medical Devices Data Science Intern *Somerville, NJ*

· Used RNNs and CNNs to recognize human activity using wearable sensor data.
· Predicted post-op complications using real-world electronic health data.
· Used high-performance Linux utilities to remove bottlenecks in data preprocessing pipeline.
· Applied other machine learning techniques, including SVMs and random forests.
· Presented my teams deep learning innovations to company executives.

Prof. Gerard de Melo Lab September 2017 — August 2018
Research Assistant *Rutgers University*

· Improved a query-based text summarizer using RNNs with attention.
· Improved stability of new search engines.
· Developed programs to evaluate and improve deep learning models.
· Deployed the labs models onto Rutgers supercomputers.

AWARDS

Google Award for Data Science February 2018

· Won for Developing ASSIST, a stroke survival predictor. Read about it in the Side Projects section.

ARTICLES

Querysum Model Trains Faster With 300-dimensional Word Embeddings August 2018

PROJECTS

ASSIST December 2017 — January 2018

· Used supervised learning to predict whether a stroke patient will survive for 14 days.
· Won Google award for data science, John Snow data science award, and HopHacks award for 3 rd place overall best project.

Mathematics Blog February 2017 — Present

· Introducing students to areas of mathematics not commonly taught in schools, such as graph theory and combinatorics.

EDUCATION

Rutgers University, New Brunswick September 2017 - Present
B.Sc. in Computer Science
B.A. in Mathematics
Minor in Biology