

Abhinav Madahar

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RESEARCH EXPERIENCE

Advisor: Sungjin Ahn, PhD

Research Assistant

September 2018 — Present

Rutgers University

- Developing autonomous virtual robots using reinforcement learning.
- Combining the power of RNNs and the speed of CNNs using gated CNNs.

Advisor: Gerard de Melo, PhD

Research Assistant

September 2017 — August 2018

Rutgers University

- Wrote paper. See *Articles* section for more information.
- Lead a research project to improve a query-based text summarizer using RNNs with attention.
- Improved reproducibility of recent publications by improving portability and writing documentation.
- Developed research-oriented programs to evaluate and improve deep learning models.
- Deployed the lab's models onto Rutgers' supercomputers

INDUSTRY EXPERIENCE

Johnson & Johnson

Medical Devices Data Science Intern

May — August 2018

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.

ARTICLES

Querysum Model Trains Faster With 300-dimensional Word Embeddings

August 2018

AWARDS

Google Award For Data Science

February 2018

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

SIDE PROJECTS

ASSIST

February 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 3rd place overall best project.

Mathematics Blog

February 2017 — Present

- Introduce undergraduates to mathematics and computer science.

EDUCATION

Rutgers University, New Brunswick

September 2017 — Present

B.A. in Mathematics

B.Sc. in Computer Science

Minor in Biology