

SAMUEL STANTON

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Ithaca, NY 14850

OPERATIONS RESEARCH GRADUATE STUDENT

Machine learning, optimization, mathematical modeling, data analysis

EDUCATION

Ph.D. in Operations Research, Cornell University

In Progress

- Minor: Computer Science
- Expected graduation year 2021

Bachelor of Science in Mathematics, University of Colorado Denver

May 2017

- Graduated with distinction, *summa cum laude*, 3.98 GPA
- Applied Math concentration

SKILLS

Programming Languages

- Python, Matlab

Deep Learning Libraries

- PyTorch, Tensorflow

RESEARCH EXPERIENCE

Cornell University, Ithaca, NY

Graduate Research Assistant

2017-Present

- Member of Dr. Andrew Wilson's Machine Learning lab. Current project explores applications of scalable, parallelizable ML algorithms to model-based reinforcement learning for robotics and automatic control.

University of Colorado Denver, Denver, CO

Undergraduate Honor's Thesis

2016-2017

An Algorithm for Redistributing Disproportionate Numbers of Political Asylum Applicants

- Optimizing equity of economic burden among haven countries and refugee satisfaction with resettlement location. Algorithms written in C++.

University of California Los Angeles, Los Angeles, CA

Undergraduate Research Assistant

Summer 2016

- Designed and executed experiments for a fluid dynamics lab conducting basic research on the behavior of viscous particle slurries. Personal responsibilities included writing image analysis code in Matlab.

University of Colorado Denver, Denver, CO

Undergraduate Research Assistant

2016

- Supervised by Dr. Julien Langou, research in algorithms with desirable scalability and stability properties for indefinite symmetric matrix decomposition in Matlab.

PROFESSIONAL EXPERIENCE

United States National Security Agency, San Antonio, TX

Data Science Intern

Summer 2017

- Wrote API wrappers to collect and clean data, along with scripts for data analysis, unsupervised learning tasks and data visualization in Python.

AWARDS

2018 United States Department of Defense NDSEG Fellowship

April 2018

- Awarded in recognition of academic excellence and achievement in STEM. Proposed research topic: applications of new Bayesian optimization theory to automatic machine learning algorithms.

2017 COMAP MCM - Finalist

April 2017

- Awarded for modeling impact of communicating autonomous vehicles on Seattle traffic congestion

University of Colorado Denver Milo Award

May 2016

- Awarded to the CU Denver Math Club leadership for outstanding contribution to the student community through study halls and events.

PRESENTATIONS

University of Colorado Denver Honors Colloquium

May 2017

- *Beyond the Dublin Regulation: Distributing Political Asylum Applicants Dynamically*

SIAM Front Range Applied Math Student Conference

March 2016

- *Modeling Refugee Migration with Non-Stationary Markov Chains*

California Research Training Program in Computational and Applied Math Student Conference

August 2016

- *Constant Flux Particle-Laden Viscous Thin Film Flows on an Incline*

REFERENCES

Dr. Andrew Wilson (Advisor), Assistant Professor

Department of Operations Research and Information Engineering, Cornell University
andrew@cornell.edu

Dr. Gennady Samorodnitsky, Professor

Department of Operations Research and Information Engineering, Cornell University
gs18@cornell.edu

Dr. Julien Langou, Professor

Department of Mathematical and Statistical Sciences, University of Colorado Denver
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