Wilson Gregory

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EDUCATION:

Johns Hopkins University, Baltimore, MD. 2nd Year PhD Student, Applied Math and Statistics 2021-Present

• Advisor: Soledad Villar

Rensselaer Polytechnic Institute (RPI), Troy, NY. B.S. in Computer Science and Mathematics

2018

• **GPA: 3.89**, Graduated Magna Cum Laude

PUBLICATIONS:

* indicates equal contribution

Preprints

• MarkerMap: nonlinear marker selection for single-cell studies, N. Sarwar*, W. Gregory*, G.A. Kevrekidis*, S. Villar, B. Dumitrascu, arXiv:2207.14106

INVITED TALKS:

Equivariant Convolutions with Tensor Images

2023

• AMS Spring Sectional Meeting, Special Session on Harmonic Analysis and its Applications

PROFESSIONAL EXPERIENCE:

Cut+Dry, San Francisco, CA

Senior Software Engineer
Software Engineer

2020-2021 2018-2020

- As the most senior engineer, led architecture discussions and implemented best practices
 - Implemented pipeline to digitize restaurants' invoices from suppliers to track usage, pricing
 - Employed React and Bootstrap to build modern, responsive restaurant ordering app
 - Stood up ElasticSearch database on AWS to search 120,000+ products from over 14 suppliers

U.S. Department of Defense, MD

2017

Computer Science Intern

General Dynamics Mission Systems, Taunton, MA

2016

Software Quality Assurance Intern

- Worked closely with development team to identify, replicate, and log bugs in software
- Performed 70% of testing workload on kiosk software for military networking equipment

PROJECTS:

RPI IDEA Datathon, First Place \$1500 Prize

2018

- Team data science competition focusing on problems in the healthcare industry
- Created a model in Python to predict patient's satisfaction with their doctors

Greenwich.HR, Senior Capstone Project

2017

- Partnered with Greenwich.HR to explore and gain insights in their job posting data
- Created a machine learning model in R to predict job salaries the healthcare industry

SKILLS:

Programming Languages: Fluent in Python (JAX, Numpy, Pytorch), R, JavaScript, PHP, C/C++ Data Science Skills: Linear Regression, Gradient Descent, Neural Networks, Nearest Neighbor, PCA, SVM Experience with web development: AWS, React, GraphQL, Apollo, Bootstrap