Antonino DiMaggio

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PROFILE

Computer science major with a passion for learning new things seeking to utilize my internship experience and strong background in mathematics to obtain a position in data science or machine learning.

EXPERIENCE

National Renewable Energy Laboratory — Golden, CO
Research Intern, Advisor: Dr. Leonardo Micheli — 6/2018 - 8/2018
- Time series analysis of photovoltaic performance data in Python
- Particle characterization using machine learning based clustering algorithms
- Worked in a research group implementing rapid development methodology

Princeton Plasma Physics Laboratory — Princeton, NJ
Research Intern, Advisor: Dr. Arturo Dominguez — 9/2017 - 1/2018
- Computation of ideal magnetohydrodynamic equilibrium of stellarator plasmas
- Built three-dimensional visualization tools for stellarator plasmas in MATLAB
- Application of methods to solve systems of partial differential equations

EDUCATION

Rutgers University — New Brunswick, NJ
B.S in Computer Science — Expected May 2020
GPA: 3.3

Selected Coursework: Linear Optimization, Principles of Programming Languages, Data Science, Software Methodology, Compilers, Ordinary Differential Equations

SKILLS

- **Programming Languages**: Python, Java, C
- **Tools and Frameworks**: Tensorflow, PyTorch, Keras, Python data science stack, Jupyter, Django, Git
- **Other Skills**: RESTful web service design, High performance Linux clusters, MATLAB

PROJECTS

Predicting Solar Irradiance Using Recurrent Neural Networks — 12/2019 - Present
- Development of a machine learning model for the purpose of forecasting solar irradiance data
- Implementation of a recurrent neural network with long short-term memory units in PyTorch