

Matthew M. Harding

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EDUCATION

Georgetown University

Master of Science: Data Science and Analytics
GRE: Quant: 163, Verbal: 159

Fall 2022

Georgia Institute of Technology

Bachelor of Science: Mechanical Engineering
Graduated with Honors

Spring 2019

EXPERIENCE

Naval Academy – Leadership Research Intern

- Cleaning and wrangling raw survey datasets for future analysis
- Completing exploratory & confirmatory factor analyses for different instruments for studying leadership properties
- Performing statistical analyses to quantify improvements in leadership skills for students who went through training

Present

Georgetown – Data Science Bootcamp TA

- Answering questions & helping new data science students prepare for their first semester in the Data Science Master's Program
- Offering feedback and grading assignments for students

Present

Northrop Grumman – Equipment & Facilities Engineer

- Managed facilities projects in Northrop Grumman buildings & labs to support business functions
- Collaborated with vendors to implement complicated and custom lab designs
- Solved delays and budget issues in weekly progress reports to management
- Influenced team design reviews to optimize designs and scheduling for multi-million-dollar projects
- Took lead on the re-installation of equipment as a part of a project team strategically relocating a whole lab

2019-2021

Northrop Grumman - Equipment Engineering Intern

- Led the demolition and rerouting of piping as part of \$50 million building renovation
- Developed preventive measures and processes to limit future tool breakdowns by analyzing data of tool downtime
- Managed moves, installations, and upgrades for valuable equipment within labs

Summers 2017, 2018

Shumate Mechanical – Sales Engineering & Drafting Intern

- Drew graphical interface layouts for integration with HVAC automation systems
- Estimated and proposed work scopes and costs for construction jobs ranging from \$25k - \$500k
- Engaged with vendors and customers to build relationships and solve project related issues

2016-2017

SKILLS

Programming: Python (Pandas, NumPy), R (Tidyverse), Javascript, HTML, MATLAB, Django

Modeling & Machine Learning: Classification Regression, Lasso, Ridge Regression, Dimension Reduction, Unsupervised Learning, Decision Trees, Naïve Bayes, SVM, Neural Networks, Network Analysis, EFA/CFA

Visualization: ggplot2, Matplotlib, Seaborn, Plotly, Leaflet, R Shiny

Other Skills: Data & Digital Storytelling, Programmatic Reporting, GitHub, Technical Writing, Presenting

Affiliations: Lambda Chi Alpha, American Society of Mechanical Engineers, Student Alumni Association

LEADERSHIP & ACCOMPLISHMENTS

Honorable Mention – Cherry Blossom Peak Bloom Prediction Competition ([Link](#))

2022

BRAVO NGC Recognition for Excellent Performance

2020

United States Security Clearance – Secret

2018-2021

Athletics Chair for Lambda Chi Alpha

Spring 2017 – Fall 2017

References: Celeste Luning: luning@usna.edu (410)-293-6077
Purna Gamage: Purna.Gamage@georgetown.edu
Jack Leek: Jack.Leek@ngc.com (443)-812-6391