

Barry Daemi

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EDUCATION

Southern Methodist University	Dallas, TX
<i>Dedman College of Humanities & Sciences</i>	Dec 2022
Master of Science in Computation and Applied Mathematics	
Bachelor of Science in Computation and Applied Mathematics	May 2020
with Departmental Distinction Honor	
Bachelor of Arts in Economics with a specialization in Econometrics	May 2020
with Departmental Distinction Honor	

SKILLS

Computer: Python, MATLAB, R, Microsoft Office, SAS, SQL (Structured Query Language)
Mathematics & Economics: Numerical Linear Algebra, Multivariate Stats, Multivariate Calculus, ODEs, PDEs, General Linear Models, Neural Networks, Mathematical and Statistical Algorithms, Econometrics and Numerical Analysis, and Iterative Methods.

EXPERIENCE

Collin College	Plano, TX
Temp-Full-Time Dual-Credit Professor of Mathematics	January 2024-May 2024
Adjunct Professor of Mathematics	August 2023-December 2023
<ul style="list-style-type: none">Teaching: MATH 1314: College Algebra, MATH 0405: Foundation Math; MATH 2412: Pre-Calculus; MATH 1342: Intro. to Statistics	
Ally Financial	Lewisville, TX
Data Analytics Intern	May 2022-August 2022
<ul style="list-style-type: none">Developed machine learning model in Python that considered customer preference towards collection treatment.The new model reduced operational expenses by replacing 23,605 manual dialer calls made by debt collectors with Automated voice mail.Due to the models' performance, Ally Financial proceeded with acquisition of Dasceq Inc. supervised machine learning collection models.Created training, testing and validation datasets in SAS, cleaned and formatted datasets in Python.	
Skills: Python, SAS, Statsmodels, Pandas, Scikit-learn, Numpy, General Linear Models	
Southern Methodist University	Dallas, TX
Student-Worker: Math and Eco Tutor at The Altshuler-LEC	February 2020-May 2023
<ul style="list-style-type: none">Coordinated walk-in appointments for Mathematics and Economics, as well as programming assistance appointments in MATLAB and R, specifically for homework and project assignments.	

PUBLICATIONS AND PROJECTS

Simulation Exercise – (Data Science) Job Demonstration	2022
<ul style="list-style-type: none">https://barryhabsburg.github.io/Simulation_Exercise_Job_Demonstration.html	
Neural Network Development with Micrograd Package	2023
<ul style="list-style-type: none">https://barryhabsburg.github.io/Neural%20Network%20Development%20with%20Micrograd%20Package.html	
Data Exploration of Simulated Data with Excel	2023
<ul style="list-style-type: none">https://barryhabsburg.github.io/Data_Exploration_of_simulated_Data_with_Microsoft_Excel.html	
Monte Carlo Methods to Simulate a Stock Portfolio	2023
<ul style="list-style-type: none">https://barryhabsburg.github.io/Monte_Carlo_Methods_to_Simulate_Stock_Portfolio.html	
Statsmodel's OLS compared to Linear Least Squares via QR Decomposition	2023
<ul style="list-style-type: none">https://barryhabsburg.github.io/Statsmodels_OLS_compared_to_Least_Squares_via_QR_Decomposition_updated.html	

ORGANIZATIONS & HONORS

Organizations: Alpha Chi Honor Society, Golden Key Inter. Honor Society, Phi Theta Kappa, The NSCS