**Don P. Graham, Ph.D.**

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**Profile of Qualifications**

Data Science ￨ Engineering Consultation ￨ Strategic Analysis & Planning

Project Management ￨ Trends Tracking ￨ Facilities Operation & Management

Predictive Data Models ￨ Business Intelligence Research ￨ Network Optimization

Forecasting Tools ￨ Quantitative Models ￨ Regression Modeling ￨ IT Systems Analysis

**Highly Motivated Data Scientist / Engineer Consultant** who excels within complex and challenging business scenarios to evaluate critical data and provide insight that drives a company’s decision-making in alignment with a key mission. **Ph.D. in Transportation Engineering Graduate** who delivers impactful results via experience with high-profile Florida Power & Light, the Institute for Defense Analysis (IDA), and the New York City Board of Education. **Influential Strategist** who succeeds in engineering, consulting, project management, operations, and supply chain optimization capacities to work toward achieving competitive market leverage. **Articulate Communicator** who quickly tackles tasks via strong critical thinking and problem-solving abilities, as well as sharp attention to detail as an invaluable asset to a forward-thinking employer.

*Career Highlights Include:*

* **Leading simulation analysis of key U.S. Army supply chain systems.**
* **Demonstrating experience in Simulation and Statistical Analysis (SAS).**
* **Optimizing supply chains by developing a comprehensive forecasting tool.**
* **Developing quantitative models, performing regression models, and analyzing trends.**
* **Completing advanced coursework in areas of optimization and modeling and simulation.**
* **Reducing transportation time / costs 60% by automating a NYC school bus GIS routing system.**

**Education**

**Ph.D., Transportation Engineering** (3.6 GPA) University of Central Florida

*Dissertation – “A Comparative Evaluation of Fdsa, ga, and Sa Non-Linear Programming Algorithms and Development of System-Optimal Methodology for Dynamic Pricing on I-95 Express”*

**M.S., Operations** Columbia University

*GRE: 1420 / 1600 (720M / 700V)*

**B.S., Electrical Engineering** University of Florida

*Dow Chemical Minority Scholar, Faculty Scholar, Dean’s List Honors*

**Technical Summary**

Python ￨ SAS ￨ MapInfo ￨ Minitab ￨ SQL ￨ Microsoft Office ￨ Six Sigma ￨ MATLAB

**Professional Synopsis**

Capgemini 2021 – 2023

**Data Scientist / Engineer Consultant**

Leveraged broad scope of knowledge toward building, deploying, and testing predictive data models for industry clients. Led network optimization, as well as independent transportation business intelligence research.

Northwestern University 2014 – 2019

Florida Institute of Technology 2011 – 2018

**Adjunct Professor**

Collectively developed and delivered engaging in-classroom and / or online courses and workshops in such subjects as Data Science and Optimization, as well as Transportation. Created and graded course exams.

U.S. Department of Defense 2012 – 2017

**Analyst**

Expertly developed forecasts and quantitative models for aircraft maintenance, along with performing comprehensive regression modeling, analyzing trends, running IBM COGNOS reports, and presenting results.

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**Professional Synopsis**

**(continued)**

Florida Power & Light 2006 – 2007

**Project Manager**

Strategically steered targeted planning and project management initiatives for Energy Distribution Systems. Handled all facilities operations and management, including related services for public commercial accounts.

Demonstrated proven experience in energy analysis, including concerning alternative energy (wind and solar) sources for power distribution to continually align with operational goals and objectives.

FEF / Institute for Defense Analysis (IDA) 1997 – 2005

**Research Fellow**

Skillfully performed advanced engineering research. Developed a dynamic forecasting tool for supply chain optimization. Led simulation analysis of U.S. Army supply chain systems and forecasted parts demand.

AVIS Car Rental Company 1995 – 1997

**Operations Research Analyst**

Spearheaded details-focused statistical analysis using SAS and developed a forecast model for weekly rentals. Designed experiments for various renter groups. Maximized data management and produced technical reports.

New York City Board of Education 1991 – 1994

**Consultant**

Played a vital role in reviewing and assessing mapping software functionality ArcGIS ([www.esri.com](http://www.esri.com)) and MapInfo for selection and use in a NYC school bus transportation automation project to exceed Board objectives.

Ensured seamless initiatives by converting data from GIS formats and performing GIS data maintenance, manipulation, analysis, and extraction assignments that required efficient data research and verification.

Reduced transportation time and costs by 60% by automating and optimizing the school bus GIS routing system. Effectively developed and implemented a linear programming network algorithm for said system.

Lockheed Martin – Oak Ridge National Lab 1990 – 1991

**Engineering / IT**

Exhibited sharp analytical abilities toward handling all IT design for a Department of the Navy data acquisition project, including implementing an IT system, producing a key manual, and facilitating IT systems analysis.

**Recent Publications**

1. Datta Shoumen., Clive Granger, **Don P. Graham** and Olli-Pekka Hilmola (2008) “Forecasting and Risk Analysis in Supply Chain Management.” MIT ESD Working Paper Series ESD-WP-2008-20.

2. Datta, S., **Don P. Graham**, Nikhil Sagar, Pat Doody, Reuben Stone and Olli-Pekka Hilmola. “Forecasting and Risk Analysis in Supply Chain Management: GARCH Proof of Concept.” 2009. Managing Supply Chain Risk and Vulnerability. Wu and Blackhurst, eds. Springer 2009. pp187-20.

**Research Presentations**

1. “A Taxonomy of Heuristic Algorithms for Optimizing School Bus Transportation Networks,” December 1993, Columbia University NY. Presented in Completion of Master's Degree in Operations Research.

2. “GARCH in Supply Chains.” Dec 2004. Institute for Defense Analysis. Alexandria, VA.

3. “RFID Technology in the Supply Chain.” May 2004. Institute for Defense Analysis, Alexandria VA.

4. “Airline Revenue Management: An Overview of Operations Research Techniques.” September 2005.

5. “Application of a Probabilistic Decision Model to Airline Seat Inventory Control.” November 2005, Independent Research Project.

6. “How Wind Turbines Work.” Alternative Energy Technology Presentation. MSU Northern, Havre, MT, June 2010.