

DEMETRIOS V. PAPAZAHARIAS

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Industrial & Systems Engineering
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EDUCATION

State University of New York at Buffalo, Buffalo NY

Doctor of Philosophy, Operations Research

August 2017 - Present

Master of Science, Operations Research

May 2019

Department of Industrial & Systems Engineering

State University of New York at Geneseo, Geneseo NY

Bachelor of Science, Applied Physics *cum laude*

May 2016

RESEARCH INTERESTS

Integer programming, polyhedral study and dynamic programming for graph partitioning and network interdiction problems.

PUBLICATIONS

Working Papers

D.V. Papazaharias, J.L. Walteros. Extended Formulations for Simple Graph Partitioning on Sparse Graphs. Anticipated Submission Date: January 2020.

WORK EXPERIENCE

State University of New York at Buffalo, Buffalo NY

August 2017 - Present

Graduate Teaching Assistant

- Created instructional content and workshops for undergraduate and graduate courses
- Prepared and led weekly recitations for undergraduate courses
- Courses:
 - IE373: Introduction to Operations Research I
 - IE306: Statistics for Engineers
 - IE500: Advanced Data Analytics & Predictive Modeling (*Interim Course Instructor*)
 - IE504: Facilities Design
 - IE573: Discrete Optimization

Sentient Science, Buffalo NY

June 2019 - August 2019

Predictive Analytics Intern

- Incorporated physical models to understand damage signatures related to faults in wind turbines
- Utilized SCADA and customer operational data to assess the condition of wind turbines
- Applied survival analysis techniques to estimate risk of failure for wind turbine components

PRESENTATIONS

Extended Formulations for Simple Graph Partitioning on Sparse Graphs

INFORMS 2019 Annual Meeting, Seattle WA, United States (*invited*)

October 2019

Disconnecting Networks via Edge Deletions: An Integer Programming Approach

INFORMS 2018 Annual Meeting, Phoenix AZ, United States (*invited*)

November 2018

TECHNICAL EXPERIENCE

Programming Languages	Python (advanced), R (intermediate), Java (basic)
Data Analysis & Optimization	Gurobi (advanced), CPLEX, SQL (basic)
Software & Tools	LaTeX, Git, AWS (S3, EC2)

SELECTED COURSEWORK

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| <ul style="list-style-type: none">• Linear Programming• Discrete Optimization• Logistics Optimization• Heuristic Optimization• Design and Analysis of Algorithms• Nonlinear Optimization• Network Optimization | <ul style="list-style-type: none">• Stochastic Methods• Applied Stochastic Processes• Data Mining I (Supervised Learning)• Data Mining II (Unsupervised Learning)• Data Analytics & Predictive Modeling• Decision Making with Advanced Simulation• Urban Transportation Systems |
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