

Alexandra (Allie) Van Wagenen

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EDUCATION

Cornell University, *College of Engineering*, Ithaca, NY

Master of Engineering in Applied Operations and Research Engineering

Expected May 2025

Bachelor of Science in Operations and Research Engineering | Minor in Business | **GPA: 3.3**

May 2024

Selected Coursework: Optimization • Simulation Modeling and Analysis • Service System Modeling and Design • Data Science • Manufacturing Systems Design • Stochastic Processes • Statistics • Financial and Managerial Accounting • Discrete Structures

SPECIALIZED SKILLS & INTERESTS

Technical: Python: NumPy, Pandas, Gurobi, Seaborn, OR-Tools, Scikit-Learn, LaTeX, Java, HTML, SQL, Tableau, GitHub, Jupyter Notebook, Google Collab, Microsoft Office: PowerPoint, Excel, SharePoint, Word

Professional: Zoho: Analytics BI, CRM, Projects

Language: English (fluent); Spanish (professional)

Interests: Catan, golfing, skiing, card games, running, and international wine

ENGINEERING EXPERIENCE

InflexionPoint, *Operations Intern*, Neptune, NJ

June 2024 - Present

- Develop and design Business Intelligence (BI) tools to support the company's goal of achieving 5x growth within 3 years
- Implement methods of data and information tracking using new technical tools, strategies, and documentation
- Collaborate and communicate with clients and senior management to address and enhance data requirements and improve user experience by designing innovative methods for data analysis and visualization

LightRiver Technologies, *Project Management Intern*, Bell Labs - Holmdel, NJ

May-August 2022 & May-August 2023

- Maintained project schedules, communication, and material tracking for 7 telecommunications clients
- Analyzed modification request data for 15 software engineers and presented findings using PowerPoint and visualizations
- Calculated optimal annual work schedules for 30 field engineers using linear programming and excel spreadsheets
- Utilized cost analysis and cost summary reports for multi-million-dollar project budgets to align estimates for sales team

RELEVANT ACADEMIC PROJECTS

Evaluating the Impact of Climate Change on Crop Production, *Information Science Department*

April-May 2024

- Analyzed the effects of increasing surface temperatures, natural disasters and CO2 emissions on various crop quality and quantity by extracting data from multiple government climate and agriculture sources
- Utilized data analytic techniques such as web scraping, data cleaning, linear and logistical regression, correlation heat maps, goodness of fit tests, and neural networks to analyze and visualize our data and findings

Delegating Open Heart Cardiac Arrest Volunteers, *Operations Research Engineering Department*

October 2023

- Extracted population and spatial data of specific regions of New York City to determine the number of volunteers in each region that maximizes the survival rate of victims of open heart cardiac arrest
- Designed a linear program model using cardiac arrests distributed as Poisson processes and the De Maio survival rate formula

LEADERSHIP EXPERIENCE

Alpha Epsilon Phi Kappa Chapter, *Vice President of Recruitment*, Cornell University

May 2022-January 2024

- Organized and executed successful recruitment events, resulting in a 25% increase in new members
- Developed, communicated, and implemented strategies to improve recruitment activities
- Conducted interviews and assessed potential new members for compatibility and productivity

HONORS & AWARDS

Jack & Linda Muckstadt Graduate Award for ORIE Master of Engineering Excellence, *Cornell University*

May 2024

The award recognizes the professional character, leadership, and passion for applying operations research methods to practical business problems exhibited by students who intend to pursue the Cornell Master of Engineering program in Operations Research.