Alexandra Van Wagenen
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EDUCATION

Cornell University, *College of Engineering,* Ithaca, NY
Master of Engineering in Applied Operations Research | **GPA: 4.185**   *Expected May 2025*

Bachelor of Science in Operations Research Engineering | Minor in Business   *May 2024*

Selected Coursework: Optimization • Simulation Modeling • Service System Modeling • Data Mining and Machine Learning • Manufacturing Systems Design • Stochastic Processes • Economics • Supply Chain Management Principles • Discrete Structures

ENGINEERING EXPERIENCE

InflexionPoint, *Operations Intern,* Neptune, NJ   *June - August 2024*
- Improved business processes using relational database systems like Zoho CRM and querying languages such as SQL.
- Developed BI tools, implemented utilization rate forecasting software, and structured material tracking and procurement.
- Increased supply chain capacity to onboard new clients, supporting the company's goal of 5x growth within three years.

LightRiver Technologies, *Project Management Intern,* Bell Labs - Holmdel, NJ   *May - August 2023*
- Created project schedules, client presentations, and led weekly meetings with senior management and engineering teams.
- Calculated optimal work schedules for 30 engineers and analyzed modification request data in Python for task assignment.
- Contributed to the successful execution of multi-million-dollar nationwide projects for 7 telecommunications clients.

LightRiver Technologies, *Project Management Intern,* Bell Labs - Holmdel, NJ & Concord, CA   *May - August 2022*
- Researched and communicated risks, profit forecasts, product value chains, and project scopes to internal teams.
- Evaluated factory-built network inventory and software compatibility to make strategic onsite organizational decisions.
- Effectively initiated 4 technical lab-based projects and ensured the progression of milestones in a timely manner.

LEADERSHIP & SKILLS

Peer Orientation Advisor, *Operations Research Engineering Department*   *August 2024*
- Structured and led panel discussions and training seminars for the incoming cohort of the Master of Engineering Program.

Vice President of Recruitment, *Alpha Epsilon Phi Kappa Chapter,* Cornell University   *May 2022 - January 2024*
- Designed and executed successful recruitment events and strategies by leading a team of 5 executive members.
- Achieved a 25% increase in members while enhancing the group's diversity and fostering collaboration among members.

Technical: Python: NumPy, Pandas, Gurobi, Seaborn, Scikit-learn, Matplotlib, SciPy, AMPL, SQL, Git, Tableau, UX/UI, Java
Languages: English (fluent); Spanish (professional)
Interests: Golfing, skiing, soccer, card games, running, and international wine

RELEVANT ACADEMIC PROJECTS

E&J Gallo Master of Engineering Project, *Operations Research Engineering Department*   *January 2025 - Present*
- Manipulate company data to predict demand as a function of retailer characteristics and product cannibalization.
- Formulate a multi-echelon, multi-product supply chain inventory model to optimize component and finished good manufacturing, utilizing techniques such as linear programming in Python with Gurobi and stochastic processes.

Evaluating the Impact of Climate Change on Crop Production, *Information Science Department*   *April - May 2024*
- Analyzed the effects of environmental factors on crop types through the extraction of quantitative and qualitative data.
- Utilized web scraping, data cleaning and selection, hypothesis testing, regression models, performance metrics, neural networks, and visualizations to synthesize results through SQL, SciPy, Matplotlib, and other Python packages.

HONORS & AWARDS

Jack & Linda Muckstadt Graduate Award for ORIE Master of Engineering Excellence, *Cornell University*   *May 2024*
The award honors students who demonstrate professional character, leadership, and passion for applying operations research methods to practical business problems in the Cornell Master of Engineering program.