

Kaite Hu

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EDUCATION

Cornell University, Ithaca, NY Expected Aug 2023-May 2024

Master of Engineering in **Operations Research and Information Engineering**

- Specialization: Applied Operations Research
- Relevant courses: Intro to Machine Learning, Discrete Model, Monte Carlo Simulation, Stochastic Process

The Ohio State University, Columbus, OH Aug 2019-Apr 2023

B.Eng. in **Industrial and Systems Engineering**, Summa Cum Laude **GPA: 3.96/4.0**

B.A. in **Psychology**, Summa Cum Laude **GPA: 4.0/4.0**

- Honors: Dean's Honor List (All Semesters)
- Relevant courses: Nonlinear and Dynamic Optimization, Prod. Plan & Facility Design, Workplace Ergonomic

RELEVANT EXPERIENCE

Wegmans Food Markets Order Optimization Project | Ithaca, NY Oct 2023 - Present

- Utilizing Python for data cleansing and exploratory data analysis; analyzing order shipping patterns and optimizing pallet volumes to stores; created interactive visualization of the transportation network
- Implementing a linear programming model to optimize inbound and outbound logistics and identify cost-saving strategies, projected to significantly reduce transportation expenses and boost logistical efficiency

Tin Whiskers Capstone Project | Technical Lead | Columbus, OH Aug 2022 - Dec 2022

- Orchestrated 47 expert interviews, leading to a comprehensive analysis that identified key risk factors in circuitry impacted by metal whiskers, informing the development of mitigation strategies
- Developed a Monte Carlo simulation and a graphical user interface using Python for analyzing metal whisker bridging risks, significantly improving efficiency and accuracy in risk assessment processes
- Presented complex project findings and outcomes to NASA and MDA sponsors on a weekly basis; created a comprehensive narrative video highlighted the project's evolution and key milestones

Honda Assembly Optimization Project | Research Assistant | Columbus, OH Jul 2022 - Nov 2022

- Collaborated with team members, devised and built a stereographic vision prototype, employing Raspberry Pi and 4 Arducam cameras, to enhance vehicle assembly gap measurements
- Pioneered a Python-based solution for automated quad-camera synchronization and focusing, which culminated in a 40% increase in inspection productivity and a 20% reduction in labor costs

Walsin Steel Production Optimization | Research Assistant | Columbus, OH Oct 2021 - Sep 2022

- Streamlined data handling using Python for dataset cleansing and preprocessing; designed a validation script that upheld data integrity, resulting in a 25% improvement in the accuracy of system output analysis for optimization
- Conducted in-depth research into Genetic and Heuristic Algorithms, evaluating their applicability to complex job shop scheduling, which informed the development of more efficient optimization strategies
- Designed and deployed custom scheduling algorithms to optimize the workload across 23 stations of parallel machines, enhancing production throughput and achieving a 10% workload reduction per station

RELEVANT SKILLS

- **Technical Skills:** Python (Pandas, NumPy, Gurobi, Tkinter, Sklearn), SQL, Adobe Premiere, GAMS, Matlab, Java, R, Excel VBA, MS Access, Simio, SolidWorks, AutoCAD, and Raspberry Pi
- **Languages:** English (Fluent), Chinese Mandarin (Native)

LEADERSHIP

• Academic Assistant | Graduate Course: Decision Making under Uncertainty | Ithaca, NY Jan 2024 - Present

• Vice President of Planning | International Student Community Service | Columbus, OH Feb 2020 - Mar 2021