Wyatt Johnston

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Education

The University of Texas at Austin   Austin, TX
Ph.D. Operations Research and Industrial Engineering   August 2025 – Present
Coursework: Applied Probability, Linear Programming, Nonlinear Programming, Deep Learning

University of Illinois at Urbana-Champaign   Champaign, IL
B.S. Systems Engineering & Design   August 2021 – May 2025
Concentration + Minor: Computer Science
GPA: 3.98 / 4.00
Coursework: Applied Machine Learning, Analysis of Data, Numerical Methods, Data Structures
and Algorithms, Deterministic Models in Optimization

Honors and Awards

Cockrell School of Engineering Graduate Fellowship	2025 – Present
Grainger College of Engineering Dean's List	2021 – 2025
University of Illinois Chancellor's Scholar	2021 – 2025
University of Illinois Campus Honors Outstanding Senior Award	2024
Edward S. Fraser Award (Grainger Engineering ISE Department)	2023
Mildred Maddux and Lisle Abbott Rose Scholarship (Grainger Engineering ISE Department)	2023
ISE Engineering Visionary Scholarship	2021 – 2022

Academic Experience

UNIVERSITY OF ILLINOIS, Champaign, IL   January 2025 – May 2025
Lab Assistant, Instrumentation and Test Lab
- Led lab sessions, conducting demonstrations and assisting with data collection and analysis.
- Provided detailed feedback on lab reports working to improve students' technical writing.

UNIVERSITY OF ILLINOIS, Champaign, IL   August 2022 – May 2025
Lead Engineering Tutor
- Interviewed and trained new tutors, supporting the growth of the tutoring program.
- Offered drop-in tutoring for a range of core engineering courses, along with large review
  sessions prior to midterm and final exams.

Work Experience

SIEMENS ENERGY, Orlando, FL   June 2024 – August 2024
Intern, Power Diagnostics
- Developed a Python script in Jupyter Notebook to aggregate sensor data from power plants,
  summarize the performance findings and generate easily digestible tables used in reports.
- Utilized Seeq to analyze and compare the accuracy of thermal models for combustion engines,
  contributing to improved model precision.

TOTH AND ASSOCIATES, Springfield, MO   May 2023 – August 2023

Intern, Planning

- Utilized Milsoft software to inspect misdiagnosed voltage drops in power distribution systems attributed to temperature settings in model, with findings presented at an industry conference.
- Employed data filtering techniques to identify geographic power usage trends over several years, using these insights to compile a growth plan distributed to clients.

Skills

Programming Languages: Python (NumPy, SciPy, PuLP, TensorFlow, pandas, matplotlib), C/C++, R, Java, MATLAB

Software / Tools: Jupyter Notebook, Git, Hugo, Seeq, LaTeX, MS Office