

ADAM SHAFIK JOVINE

New York, New York ♦ asj53@cornell.edu

EDUCATION

BS in Computer Science and Operations Research, Cornell University
GPA : 3.8 , Magna cum Laude, Honors in OR, Honors in CS

Aug 2021 - May 2025

EXPERIENCE

Office of Naval Research, Researcher

Jul 2024 - Present

LLM preference learning paper under review for NeurIPS 2025. Built a classified logistics optimization tool for Naval bases, improving delivery efficiency (details restricted)..

Accepted AutoML 2025 paper on our invention of BLADE-BO (Balanced Layered Active Diversity Exploration - Bayesian Optimization). Developed 60k Line of code React+Flask app that saved Cornell, UC Riverside and UC Davis 1000s of hours for exam scheduling.

UBS, Software Engineering Intern

June 2024 - Aug 2024

Implemented a Chatbot with Microsoft Cognitive Services, Flask, and NodeJS for wealth managers, aggregates research and creates investment advice, used throughout the firm. Trained query embedding classification algorithm which sped up classification 6x and decreased errors by 56%.

Cornell Scheduling Team, Research Team Lead

Jan 2023 - Aug 2025

Scheduled 240,000 final exams for Cornell, 180,000 final exams for UC Riverside. Developed a new scheduling algorithm that reduced back-to-back exams by 85% and conflicts by 100%. Led Cornell's largest undergraduate research group (34 members) for 2 years, overseeing publications and deployments across universities.

Tufts Medicine, Data Science Intern

May 2023 - Aug 2023

Modeled Attrition using Random Forests in SciKitLearn to understand causes of turnover and improve DEI. Developed a GPT-4 powered chatbot for HR policies, decreasing HR service center wait times: used by 300 employees a week.

Cornell University, Teaching Assistant

Aug 2023 - May 2025

TA for CS 2800 (Discrete Math) and TA for ORIE3310 (Optimization II), responsible for Rubrics, Grading, Recitations.

AWARDS

- 1st Place, Cornell Undergraduate Research Board (CURB) Symposium Overall Winner – 2024; 2nd Place – 2023, 2025
- Voted best teaching assistant of the year (Teaching Excellence Award – Spring 2025)
- CRA (Computing Research Association) Outstanding Undergraduate Researcher Award – 2024
- Mogensen Research Excellence Award; Omega Rho Honors Scholar.
- Dean's List, Cornell University – Spring 2021 to Spring 2025

PUBLICATIONS

- **A. Jovine**, P. Frazier, D. Shmoys, T Ye : Reflective Optimization, Enhancing Scheduling Decisions with LLM-Guided Trade-off Reasoning-in submission NeurIPS
- **A. Jovine**, P. Frazier, D. Shmoys, T Ye : BLADE-BO, Cutting administrative burden using Quality Diversity Optimization Exam Scheduling at a Cornell University, in submission AutoML
- T Ye , **A. Jovine** Exam Scheduling Benchmarking for IP-ML - Distributional MIPLIB, in submission MIPLIB
- T Ye , **A. Jovine**, W. Van Osselaer, Qihan Zhu, D. Shmoys, Cornell University Uses Integer Programming to Optimize Final Exam Scheduling, INFORMS International Journal of Applied Analytics 2025

SKILLS

- Python, JavaScript, Java, R, C, SQL, OCaml, Tools and Libraries: Web Scraping, Excel, PowerBI, Tableau, AWS, SciKitLearn, llama index, Lang Chain, OpenAI API, Hugging Face, Gradio, Pandas, NumPy, TensorFlow, HTML, Angular, XPath, GurobiPy, LaTeX, NetworkX, Git, RISC-V, OR-Tools, Vite, React, SQLite, PostgreSQL, Flask, NodeJS, Angular, BOTorch, Docker, AWS.