




CHRISTINA JOSLIN

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PROFESSIONAL SUMMARY

Incoming Ph.D. student in Operations Research and Financial Engineering at Princeton University with research interests in statistical machine learning, foundation models, and optimization.

EDUCATION

Princeton University – Princeton, New Jersey September 2026 – May 2030 (*Expected*)

Doctor of Philosophy in Operations Research and Financial Engineering

Purdue University – West Lafayette, Indiana August 2022 – May 2026

Dual B.S. Degrees in Data Science and Applied Statistics with Highest Distinction | **GPA: 3.99/4.00**

Honors: Stamps Scholar, Phi Beta Kappa, Phi Kappa Phi, John Martinson Honors College

Professional Affiliations: Sigma Xi (Associate Member), Phi Beta Kappa (Member), ACM (Student Member)

PUBLICATIONS

Joslin, C., Burns, D., Ashish, A., & Barezi, E. J. (2025, November). Generating Frequently Asked Questions from Technical Support Tickets using Large Language Models. *Proceedings of the SC '25 Workshops of the International Conference for High Performance Computing, Networking, Storage, and Analysis* (pp. 715-726). Association for Computing Machinery. <https://doi.org/10.1145/3731599.3767429>

Krause Moras, B. C., Joslin, C., & Gkritza, K. (2025, October). Used or new electric vehicles? Public preferences and market segments. *International Journal of Sustainable Transportation*, 1-14. <https://doi.org/10.1080/15568318.2025.2572827>

PROGRAMMING SKILLS

Languages: Python, R, Java, SAS, SQL

Frameworks & Libraries: PyTorch, Tensorflow, HuggingFace, Unsloth, scikit-learn, Pandas, NumPy, LangChain, Streamlit

Research Computing & Development Tools: Git, SLURM, Jupyter, Bash, LaTeX, RStudio

Certifications: SAS Base Programmer (SAS, 2025), Deep Learning and Machine Learning Specializations (Coursera, 2024)

RESEARCH EXPERIENCE

Undergraduate Research Assistant - Rosen Center for Advanced Computing May 2025 – May 2026

- Developed an AI FAQ pipeline from 6,000+ HPC tickets using LLM fine-tuning, semantic clustering, and prompt engineering.
- Fine-tuned an LLM on 3,000+ DS&A question-answer pairs to automate practice question generation for undergraduate CS coursework.
- Held ML workshops for Purdue researchers and research computing professionals.
- Led an Industrial Engineering capstone collaboration to develop customer support demand forecasting & ticket escalation.

Undergraduate Research Assistant - Sustainable Transportation Systems Research Group January 2024 – May 2025

- Analyzed survey data from 2,000 Indiana residents on EV perceptions using ordinal regression, PCA, and latent class analysis in R to highlight EV adoption trends and charging infrastructure gaps.

TEACHING EXPERIENCE

Teaching Assistant - CAT Digital Corporate-Sponsored Projects January 2024 – December 2024

- Mentored 10–20 students on Scrum-based projects; led CAT EV charging app (patent 63/637,725) and sensor analytics dashboard with an integrated chatbot.

Undergraduate Teaching Assistant - CS 180 August 2023 – December 2023

- Led two weekly lab sections, supported Java debugging, and held office hours for Purdue's introductory programming course.