YEPING JIN

PhD Candidate | System Engineering | Boston University
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SUMMARY

Third-year Systems Engineering PhD Candidate with extensive experience in optimization and deep learning, specialized in distributionally robust learning and reinforcement learning. Proficiency in developing robust solutions across deep learning that bridges the gap between theoretical algorithm and real-world application.

SKILLS

Python (Pytorch, Gurobipy, cvxpy, Transformers), Matlab, Reinforcement Learning from Human Feedback, Robust Optimization

EXPERIENCE

Natural Language Processing, Distributionally Robust Token Optimization Boston
PhD Researcher Aug 2025 – Present

- Integrated distributionally robust learning into Reinforced Token Optimization to stabilize LLMs against shifts in math problem distributions.
- Developed a method emphasizing worst-case token-level feedback and verifier-aware rewards to improve out-of-distribution robustness. Optimized model performance to ensure high reliability in reasoning tasks without sacrificing in-distribution accuracy.

Clinical Decision Support Pilot, Distributionally Robust Prescriptive Modeling Boston
PhD Researcher Sep 2024- Present

- Developed and trained a novel Machine Learning model using anonymized Electronic Health Record (EHR) data from Boston Medical Center to optimize hypertension prescriptions. Implemented a Distributionally Robust Learning framework to handle data variability and ensure reliable treatment recommendations across diverse patient populations.
- Collaborated on a first-of-its-kind quality improvement pilot study to directly integrate AI-powered clinical decision support recommendations into the Epic EHR system. Optimized prescriptive modeling approaches to assist clinicians in selecting personalized and optimal treatment plans for hypertension.

Health Care Research, Distributionally Robust Learning in Survival Analysis Boston
PhD Researcher Jun 2024 – Dec 2024

- Developed distributionally robust formulations for survival analysis to improve stability under covariate shift and subpopulation heterogeneity.
- Applied robust optimization frameworks to clinical risk modeling to ensure performance consistency in heterogeneous populations.

AInnovation Beijing, China
Intern Computer Vision Engineer May 2021 - Aug 2021

- Matched up industrial demands with computer vision projects. Communicated with industries to acquire data and required metrics.
- Optimized automated product recognition by deploying and fine-tuning ResNet and LSTM architectures. Integrated spatial and sequential modeling techniques to achieve target F1-score benchmarks for product classification.
- Enhanced real-time video detection capabilities by configuring YOLOv2 frameworks. Optimized model anchors and parameters to maintain high-precision performance across diverse and challenging operational environments.

EDUCATION

Boston University Boston
PhD Candidate of System Engineering Sep 2023 - Present

- Current GPA: 4.0
- Relevant course work: Convex Optimization, Combinatorial Optimizations, Graph Theory.

Columbia University New York
Master of Science in Operation Research Sep 2021 - Dec 2022

- Current GPA: 3.8/4.0
- Relevant course work: Algorithm Analysis, Matching algorithms, Optimization, Simulation, Stochastic Models, Game Theory, Algorithm Trading.

University of California, Los Angeles Los Angeles
Master of Art & Bachelor of Science in Mathematics Sep 2016 - Jun 2020

- GPA:3.7/4.0
  Enrolled into Math Honor Program & Departmental Scholar Program; attained a B.S. degree and a M.A. degree simultaneously.