Berke M. Türkay

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Website | LinkedIn

Education

Purdue University, Mitchell E. Daniels, Jr. School of Business — Aug 2025 – Present
Ph.D. in Supply Chain and Operations Management — *West Lafayette, Indiana*
Research advisors: Qi (Annabelle) Feng and J. George Shanthikumar

Brown University — Jun 2021 – May 2022
Master of Public Affairs; Data Science specialization — *Providence, Rhode Island*

Brown University — Sep 2017 – May 2021
Sc.B. in Applied Mathematics–Economics — *Providence, Rhode Island*

Research Interests

Operational data analytics; data-driven and risk-averse inventory control; stochastic systems and applied probability; queueing and stochastic control; stochastic optimal transport; supply-chain resilience.

Research Experience

Graduate Research and Teaching Assistant — Aug 2025 – Present
Purdue University, Daniels School of Business — *West Lafayette, Indiana*
- Developing risk-averse operational data analytics methods for scalable inventory and newsvendor models, using scale invariance, positive homogeneity, and symmetry to structure data-driven policies.
- Studying stochastic optimal self-transport and entropy-regularized control methods for long-run average-cost control and queueing-network optimization.

Research Associate — Jul 2024 – Jul 2025
Koç University — *Istanbul, Türkiye*
- Developed a scenario-based simulation forecasting global AI electricity demand and life-cycle carbon emissions through 2050.

Undergraduate Research Assistant — Jun 2019 – Aug 2019
Brown University, Division of Applied Mathematics — *Providence, Rhode Island*
- Modeled cell growth and zebrafish skin-pattern formation in MATLAB under the supervision of Björn Sandstede (Brown) and Alexandria Volkening (Purdue).
- Presented the work at the Brown Summer Research Symposium and an REU conference at the University of Massachusetts Amherst.

Teaching Experience

Teaching Assistant — Jan 2020 – Dec 2020
Brown University, Division of Applied Mathematics — *Providence, Rhode Island*
- Introduction to Scientific Computation.
- Applied Ordinary Differential Equations (ODEs).
- Earned a mean student rating of 4.87/5.00 for teaching effectiveness.

Industry Experience

Sales Operations Analyst II — Jul 2022 – Apr 2024
ZoomInfo Technologies — *Waltham, Massachusetts*
- Built Python and SQL analytics pipelines for sales performance, account scoring, and pipeline monitoring.
- Developed machine-learning recommendation tools, forecasts, and simulations to support quota setting,

pacing, headcount planning, and revenue management.
- Delivered decision support to senior sales leadership, including the Senior Vice President of New Business and Chief Revenue Officer.

Honors and Awards

Sig & Patricia Cornelius Fellowship 2026
Purdue University

Presidential Excellence Ph.D. Award 2025
Purdue University

Karen T. Romer Undergraduate Teaching and Research Award (UTRA) 2019
Brown University

Service and Professional Activities

Vice President for Research Jun 2026 – Present
Krannert Doctoral Student Association (KDSA), Purdue University

Committee Chair 2025
Third Purdue Operations Conference in Honor of J. George Shanthikumar

Co-President May 2019 – May 2021
Applied Mathematics Departmental Undergraduate Group, Brown University

Student Member Aug 2025 – Present
INFORMS and Purdue University Student Chapter

Additional Training and Technical Skills

Credential: MITx MicroMasters in Supply Chain Management, Nov 2025
Computing: Python, SQL, MATLAB, R