Daniel Deza

PhD Student
Princeton University

Princeton University
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Education

Princeton University — Princeton, USA
PhD in Operations Research and Financial Engineering — 2024-Present

University of Toronto — Toronto, CA
BASc in Engineering Science — 2020-2024
- Major in Machine Learning
- Graduated with High Honors, GPA: 3.96/4.00

Research Interests

Optimization and machine learning:
- mixed integer optimization, bi-level optimization, real-time optimization, machine learning for optimization

Research Experience

Princeton University — Princeton, US
PhD Student, Dept. of Operations Research and Financial Engineering — May 2025 – Present
- Verification of first order methods using Mixed Integer Program and ascent methods
- Supervised by B. Stellato

University of Toronto — Toronto, CA
Undergraduate Researcher — Sept 2023 – May 2024
- Undergraduate Thesis: “Two-Stage Bus Bridging Optimization”
- Supervision: Dr. M. Bodur and Dr. A. Shalaby

Osaka University — Osaka, JP
Visiting Student Researcher — May 2023 – Aug 2023
- Project: ”Exploration vs exploitation trade-off in distributed multi-arm bandit problems”
- Supervision: Dr. N. Hayashi

Technion — Haifa, IL
Visiting Student Researcher — May 2022 – Aug 2022
- Project: ”Separable and Equatable Hypergraphs”
- Supervision: Dr. S. Onn

Awards

- Engineering Science Research Opportunities Program ($7500) — 2023
  University of Toronto Department of Engineer Science
- NSERC USRA($7500) — 2023
  University of Toronto Mechanical and Industrial Engineering Department
- Excepetional Opportunity Award ($6000) — 2022
  University of Toronto and Technion
- Dean’s Honors list Fall 2020, Winter 2021, Fall 2021, Winter 2022, Fall 2022, Winter 2023, Fall 2023, Winter 2024
  University of Toronto

Publications

Journal articles

[J1] **Deza, D.** and S. Onn, "Separable and equatable hypergraphs," *Discrete Applied Mathematics*, vol. 332, pp. 170–179, 2023.

Technical Skills

- **Programming:** Python
- **Tech/Tools:** Git, LaTeX

Languages

- **English:** Native
- **French:** Native