

Daniel Deza

PhD Student
Princeton University

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Education

Princeton University PhD in Operations Research and Financial Engineering	Princeton, USA 2024-Present
University of Toronto BASc in Engineering Science – Major in Machine Learning – Graduated with High Honors, GPA: 3.96/4.00	Toronto, CA 2020-2024

Research Interests

Optimization and machine learning :

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

Research Experience

Princeton University Phd Student, Dept. of Operations Research and Financial Engineering – Verification of first order methods using Mixed Integer Program and ascent methods – Supervised by B. Stellato	Princeton, US May 2025 – Present
University of Toronto Undergraduate Researcher – Undergraduate Thesis: “Two-Stage Bus Bridging Optimization” – Supervision: Dr. M. Bodur and Dr. A. Shalaby	Toronto, CA Sept 2023 – May 2024
Osaka University Visiting Student Researcher – Project: “Exploration vs exploitation trade-off in distributed multi-arm bandit problems” – Supervision: Dr. N. Hayashi	Osaka, JP May 2023 - Aug 2023
Technion Visiting Student Researcher – Project : “Separable and Equatable Hypergraphs” – Supervision: Dr. S. Onn	Haifa, IL May 2022 - Aug 2022

Awards

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

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