

HARIPRIYA PULYASSARY

✉ haripriya-pulyassary | ✉ hp297@cornell.edu

EDUCATION

- AUG 2027 **PhD Student – Operations Research**
(Expected) Advisors: Prof. David Shmoys & Prof. Manxi Wu
Cornell University
- AUG 2022 **Masters of Mathematics in Combinatorics & Optimization**
Advisor: Prof. Chaitanya Swamy
Thesis: Algorithm Design for Ordinal Settings
University of Waterloo
- APR 2021 **Bachelors in Computer Science (Co-op)**
Joint Honours in Combinatorics & Optimization,
Minor in Statistics
University of Waterloo

PUBLISHED ARTICLES

- 2024 Network Flow Problems with Electric Vehicles
H. Pulyassary, K. Kollias, A. Schilds, D. Shmoys, M. Wu, *IPCO 2024*
- 2023 Capacity Allocation and Pricing of High Occupancy Toll Lane Systems with Heterogeneous Travelers
H. Pulyassary, R. Yang, Z. Zhang, M. Wu, *CDC 2023*
- 2021 The aggregation closure is polyhedral for packing and covering integer programs.
K. Pashkovich, L. Poirrier, and H. Pulyassary, *Mathematical Programming*

UNDER REVIEW

- 2024 Digital Transformation in Transportation Systems: Navigating User Behavior and System Efficiency
H. Pulyassary and M. Wu, *INFORMS 2024 tutORial*
- 2023 Market Design for Dynamic Pricing and Pooling in Capacitated Networks
S. Amin, P. Jalliet, H. Pulyassary, M. Wu, *submitted to Journal of OR*

WORKING PAPERS

- 2024 Constant-factor distortion mechanisms for k-committee election
H. Pulyassary and C. Swamy
- 2021 On the Randomized Metric Distortion Conjecture
H. Pulyassary and C. Swamy, unpublished manuscript on the ArXiv.

CONFERENCE & SEMINAR PRESENTATIONS

- 2023 Market Design for Dynamic Pricing and Pooling in Capacitated Networks
INFORMS 2023 Annual Meeting
- 2024 Network Flow Problems with Electric Vehicles
ORIE Advisory Council meeting (May 2024 – scheduled)
25th Conference on Integer Programming and Combinatorial Optimization (July 2024 – scheduled)
25th International Symposium on Mathematical Programming (July 2024 – scheduled)

TEACHING EXPERIENCE

Teaching Assistant

SPRING 2024	<i>ORIE 4742 Info Theory, Probabilistic Modeling, and Deep Learning</i>	Cornell University
FALL 2022	<i>ORIE 4350 Introduction to Game Theory</i>	Cornell University
SUMMER 2022	<i>CO 250 Introduction to Optimization</i> – Head TA • Received the Outstanding TA award	University of Waterloo
WINTER 2022	<i>CO 353 Computational Discrete Optimization</i> • Nominated for the Outstanding TA award	University of Waterloo
FALL 2021	<i>CO 255 Introduction to Optimization (Advanced)</i>	University of Waterloo
SUMMER 2021	<i>CO 250 Introduction to Optimization</i>	University of Waterloo

INDUSTRY EXPERIENCE

JAN 2020	Software and Data Engineering Intern NATIONAL BANK OF CANADA
APR 2020	
MAY 2018	Data Science and Solutions Intern ZIGHRA
AUG 2018	
MAY 2017	Data Science Intern ZIGHRA
AUG 2017	

OTHER ACTIVITIES

2023-2024	Cornell INFORMS student chapter: Secretary
2023-2024	PhD colloquium & Discrete Optimization Reading Group co-organizer (Cornell ORIE)