HARIPRIYA PULYASSARY

in haripriya-pulyassary | ≥ hp297@cornell.edu | 607 262-7654

EDUCATION

AUG 2027 **PhD Student - Operations Research**(Expected) Advisors: Manxi Wu and David Shmoys *Cornell University*

Aug 2022 Masters of Mathematics in Combinatorics & Optimization

Advisor: 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

Market Design for Dynamic Pricing and Pooling in Capacitated Networks S. Amin, P. Jalliet, H. Pulyassary, M. Wu, *WINE 2024*

- Digital Transformation in Transportation Systems: Navigating User Behavior and System Efficiency H. Pulyassary and M. Wu, *INFORMS 2024 tutORial*
- Network Flow Problems with Electric VehiclesH. Pulyassary, K. Kollias, A. Schilds, D. Shmoys, M. Wu, *IPCO 2024*
- Capacity Allocation and Pricing of High Occupancy Toll Lane Systems with Heterogeneous Travelers H. Pulyassary, R. Yang, Z. Zhang, M. Wu, CDC 2023
- The aggregation closure is polyhedral for packing and covering integer programs.

 K. Pashkovich, L. Poirrier, and H. Pulyassary, *Mathematical Programming*

UNDER REVIEW

2024 Constant-factor distortion mechanisms for k-committee elections H. Pulyassary and C. Swamy, *submitted to AAAI 2025*

WORKING PAPERS

- 2024 Adaptive sampling algorithms for minimum-norm *k*-clustering H. Pulyassary and C. Swamy, working paper.
- 2021 On the Randomized Metric Distortion Conjecture H. Pulyassary and C. Swamy, unpublished manuscript on the ArXiv.

CONFERENCE & SEMINAR PRESENTATIONS

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

TEACHING EXPERIENCE

Teaching Assistant

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

INDUSTRY EXPERIENCE

JAN 2020	Software and Data Engineering Intern
APR 2020	National Bank of Canada
May 2019	Data Saignes and Salutions Intom
WAY 2018	Data Science and Solutions Intern
AUG 2018	Zighra
MAY 2017	Data Science Intern
AUG 2017	Zighra

OTHER ACTIVITIES

2023-2025	PhD colloquium & Discrete Optimization Reading Group co-organizer (Cornell ORIE)
2023-2025	Cornell INFORMS student chapter: Secretary
2024	Co-organizer of Cornell-Columbia-NYU joint student colloquium
2022-2023	First-year Colloquium co-organizer (Cornell ORIE)