

KUSHAGRA GUPTA

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EDUCATION

The University of Texas at Austin <i>Ph.D. in Electrical and Computer Engineering</i> Advisors: David Fridovich-Keil , Ufuk Topcu	<i>Aug 2023 - Present</i>
Indian Institute of Technology Delhi (IIT Delhi) <i>Bachelor of Technology in Mechanical Engineering</i> Thesis Advisors: Souvik Chakraborty , Shaurya Shriyam	<i>Jul 2019 - May 2023</i> GPA: 9.212/10 Rank: 5/89

RESEARCH INTERESTS

My primary research interests lie at the intersection of **game theory**, **optimization**, **machine learning** and **control theory**. I am driven to work on both theoretical problems as well as on practical applications in these fields.

FIRST-AUTHOR PUBLICATIONS

1. **K. Gupta***, S. Murthy*, M. Karabag, U. Topcu, D. Fridovich-Keil. [Cooperative Bargaining Games Without Utilities: Mediated Solutions from Direction Oracles](#), *Advances in Neural Information Processing Systems (NeurIPS)* 2025
Publication Topics: [game theory](#), [machine learning theory](#), [optimization](#)
2. **K. Gupta**, R. Allen, D. Fridovich-Keil, and U. Topcu. [More Information is Not Always Better: Connections between Zero-Sum Local Nash Equilibria in Feedback and Open-Loop Information Patterns](#), *IEEE Control Systems Letters (IEEE L-CSS)*, 2025
Publication Topics: [game theory](#), [optimization](#), [control theory](#)
3. **K. Gupta**, D. Fridovich-Keil, [Iterative LQ Games for Occlusion Motion Planning](#), *Conference on Robot Learning Workshop on Strategic Multi-Agent Interactions: Game Theory for Robot Learning and Decision Making (CoRL, Workshop)*, 2022
Publication Topics: [game theory](#), [optimization](#)

RELEVANT GRADUATE-LEVEL COURSEWORK

Optimization: Convex Optimization, Nonlinear Programming

Probability: Probability and Stochastic Processes, Concentration Inequalities, Statistics

Analysis: Real Analysis, Introductory Functional Analysis

Machine Learning: Statistical Learning Theory, Reinforcement Learning, Deep Learning

Control & Game Theory: Dynamic Game Theory, Linear Systems, Optimal Control

PROFESSIONAL REVIEWING ACTIVITIES

ICLR, L4DC, ICRA, IROS, IEEE TAC, IEEE L-CSS, IEEE CDC

TECHNICAL SKILLS

Programming Languages

Python, Julia, MATLAB

Tools and Softwares

ROS, Gazebo, Simulink, Solidworks

Software Libraries

JAX, PyTorch, TensorFlow, SciPy, Pandas, NumPy