RONSHEE CHAWLA

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EDUCATION

- **University of Texas at Austin** (UT), USA
  PhD in Electrical and Computer Engineering — August 2017 – Present
  MS in Electrical and Computer Engineering — August 2017 – May 2019
  Advisor: Prof. *Sanjay Shakkottai*
  Current GPA: 4.0/4.0

- **California Institute of Technology** (Caltech), USA — September 2016 – August 2017
  Graduate Student in Electrical Engineering
  GPA: 3.7/4.0

- **Indian Institute of Technology (IIT) Indore**, India — July 2011 – May 2015
  B. Tech. in Electrical Engineering
  Advisor: Prof. *Prabhat K. Upadhyay*
  GPA: 9.89/10.0

PUBLICATIONS (* denotes equal contribution)

- *Collaborative Multi–Agent Heterogeneous Multi–Armed Bandits*
  R. Chawla, Daniel Vial, Sanjay Shakkottai, R. Srikant
  International Conference on Machine Learning (ICML) 2023 (28% accepted)

- *Multi–Agent Low–Dimensional Linear Bandits*
  R. Chawla, Abishek Sankararaman, Sanjay Shakkottai
  IEEE Transactions on Automatic Control, May 2023

- *The Gossiping Insert–Eliminate Algorithm for Multi–Agent Bandits*
  R. Chawla*, Abishek Sankararaman*, Ayalvadi Ganesh and Sanjay Shakkottai
  International Conference on Artificial Intelligence and Statistics (AISTATS) 2020 (30% accepted)

- *Outage Performance and Location Optimization for Traffic–Aware Two–Way Relaying with Direct Link*
  Suneel Yadav, R. Chawla and Prabhat K. Upadhyay
  International Conference on Signal Processing and Communications (SPCOM) 2016

- *Outage Analysis of Cellular Two-Way Relaying with Spectrum Sharing in Nakagami–m Fading*
  R. Chawla, M. Mounika Reddy and Prabhat K. Upadhyay
  Proceedings of 18th International Symposium on Wireless Personal Multimedia Communications (WPMC) 2015

WORK EXPERIENCE

- **PhD Research Software Engineer Intern** — Summer 2022
  Uber Technologies Inc., Sunnyvale, CA USA
  Explored efficient approaches for optimal allocation of the budget across driver incentives to maximize the revenue. Proposed constraints based on the domain knowledge and enforced them while training a deep neural network based revenue predictor, so that revenue maximization becomes computationally efficient

- **Scientist-B** — August 2015 – May 2016
  Aeronautical Development Establishment (ADE), DRDO, Bengaluru, India
  Flight Test Telecommand and Tracking Division

Teaching Experience

- *Probability, Statistics and Random Processes*, Teaching Assistant, Fall 2017
  Online Learning (**Graduate**), Teaching Assistant Fall 2019, Fall 2023
  - Duties included conducting office hours, and grading homework and exam problems

Talks

- *The Gossiping Insert–Eliminate Algorithm for Multi–Agent Bandits*
  Invited talk at Vrbo, Austin, TX February 2020

Professional Service

- Reviewer for conference on Neural Information Processing Systems (NeurIPS) 2022, 2023
- Reviewer for international conference on Artificial Intelligence and Statistics (AISTATS) 2023
- Reviewer for IEEE Conference on Decision and Control (CDC) 2022, 2023
- Reviewer for IEEE Control Systems Letters 2022
- Mentoring newly enrolled graduate students in the ECE department at UT Fall 2023

Honors and Achievements

- First rank in Electrical Engineering PhD Qualifying Exam at Caltech, January 2017.
- **President of India Gold Medal**, first rank in IIT Indore, class of 2015.
- DAAD WISE scholarship for summer internship at RWTH Aachen University, Germany, May 2014 – July 2014.
- Offered summer fellowship by Indian Academy of Sciences, May 2014 – July 2014 (declined).
- Academic Excellence Awards, IIT Indore, 2012 – 13, 2013 – 14 and 2014 – 15.

Graduate Coursework

- **Machine Learning**: Learning Systems, Special Topics in Unsupervised Learning (GANs), Statistical Learning Theory, Fair Transparent Machine Learning

- **Mathematics**: Probability and Stochastic Processes, Advanced Probability, Convex Optimization (Theory and Algorithms), Information Theory, Applied Linear Algebra, Random Matrices, Coding Theory, Mathematics of Signal Processing, Queueing Theory

Technical Skills

- **Programming languages**: C++, Python
- **Machine learning frameworks**: PyTorch
- **Softwares**: MATLAB