Adway Girish | ✉ Email | 🌐 Website | 🎓 Google Scholar | 📄 Full CV

Second-Year Ph.D. Candidate, School of Computer and Communication Sciences, EPFL ↗

Research Interests

Information and coding theory and **applied probability**, particularly in **learning** and **communication systems**

Education

EPFL, *Ph.D. in Computer and Communication Sciences* — *Lausanne, Switzerland*
Advisor: Prof. Emre Telatar; CGPA: *5.95/6* — Sep. 2022–Present

Indian Institute of Technology Bombay, *B.Tech. in Electrical Engineering* — *Mumbai, India*
With Honors in Electrical Engineering and Minor in Mathematics; CGPA: *9.60/10* — Jul. 2018–May 2022

Selected Publications *(see 🌐/publications or 🎓 for full list)*

Conference papers

- F. Z. Faizal, **A. G.**, *et al.*, "ICQ: A quantization scheme for best-arm identification over bit-constrained channels," in *International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt)*, 2023 ↗
- S. Sharma, **A. G.**, *et al.*, "Theoretical analysis of an inverse Radon transform based multicomponent micro-Doppler parameter estimation algorithm," in *National Conference on Communications (NCC)*, 2022 ↗

Preprints

- A. V. Makkuva, M. Bondaschi, **A. G.**, *et al.*, "Attention with Markov: A framework for principled analysis of transformers via Markov chains," in *arXiv cs.LG*, 2024 ↗

Awards and Academic Achievements

- Grade 6.0 (exceptional performance, over 95%) in four courses at EPFL — *[2022–present]*
- IITB Institute Academic Prize for being the second-best academic performer in the EE department — *[2020–21]*
- IITB Undergraduate Research Award (URA01) for work done in Radar Signal Processing — *[2020]*
- AP grades (top 2%) in Digital Communications, Data Analysis at IITB — *[2021, 2019]*
- Urvish Medh Memorial Prize for being the highest-ranked student in the EE department at IITB — *[2018]*
- All-India Ranks of 43 in JEE (Advanced) and 55 in JEE (Main) — *[2018]*
- Kishore Vaigyanik Protsahan Yojana (KVPY) fellowship from IISc following an All-India Rank of 35 — *[2016]*

Teaching, Mentoring and Service

- Reviewer for conferences and workshops: ICML NCW '23, ISIT '24 — *[2024–present]*
- Teaching Assistant for Principles of Digital Communications, Information Theory and Coding at EPFL — *[2022–present]*
- Teaching Assistant for undergraduate calculus and electromagnetism courses at IITB (4 times) — *[2019–22]*
- Institute Student Mentor for first-year undergraduates at IITB — *[2021–22]*
- Summer of Science mentor at IITB for signal processing, coding theory, information theory — *[2020–23]*
- Class Representative for the 2018–22 B.Tech. in EE batch at IITB — *[2018–19]*

Extracurriculars

- Intermediate course in Table Tennis under the National Sports Organization at IITB — *[2018–19]*
- Best All-Rounder on graduation from Ryan International School Bangalore — *[2016]*
- Deputy Education Minister in the Student Council at Ryan International School Bangalore — *[2014–15]*
- Completed 19 credits in electronic keyboard from the Trinity College of Music London — *[2007–13]*