

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]

## Mentoring and Responsibility

---

- Teaching Assistant for Principles of Digital Communications, Information Theory and Coding at EPFL [2022-23]
- Teaching Assistant for UG calculus and electromagnetism courses at IITB (4 times) [2019-22]
- Institute Student Mentor for first-year undergraduates at IITB [2021-22]
- Mentor for Summer of Science at IITB (signal processing, coding theory, information theory) [2020, 2022, 2023]
- Class Representative for the 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]