KANISHAK VAIDYA

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Academic Achievements and Scholarships

Granted PMRF: January 2020GATE (EC) 2018: AIR 10. GATE

Score: 1000

Junior Mathematical Olympiad: 2011. AIR 30

Technical Strengths

- Programming: Python,
 Octave/MATLAB, C/C++, Bash
 scripting
- Software Tools: LTspice, LabView, Arduino IDE, SimuLink
- Miscellaneous: Linux, SSH, git, LaTeX, Markdown, HTML/CSS, vim, emacs

Professional Skills

- Research and analysis
- Contextual comprehension
- Efficient team oversight and coordination
- Abstract and critical thinking
- Problem solving
- Proactive and decisive

Industrial Experience

- BSNL Mandi: 45 Day industrial training on telephone exchange, main distribution frames and switching.
- RWIT: Workshop on wireless technologies, IoT and 5G
- INMOTC: KV Dhaula Kuan, Delhi.
 Focus on Complex analysis,
 Number theory and geometry

ABOUT ME

As a Ph.D. fellow in ECE department at IISc Bangalore, my research expertise lies in privacy in wireless cache-aided networks, and distributed machine learning systems. I have strong background in signal processing, coding, and information theory and I've also worked on image processing and computer vision projects.

RECENT EDUCATION

Qualification	Institute	Specialization	Graduated	CGPA
PhD	IISc Bangalore	Communications	Nov 2023	8.9/10
M.Tech	IISc Bangalore	Signal Processing	Jul 2023	8.9/10

RECENT PUBLICATIONS

- K. Vaidya and B.S. Rajan, "Cache-Aided Multi-User Private Information Retrieval using PDAs" IEEE TComm, doi:10.1109/TCOMM.2023.3325473.
- K. Vaidya and B.S. Rajan, "Private Information Delivery with Coded Storage," IEEE ISIT 2022, Espoo, Finland, 24 June 2 July 2022.
- K. Vaidya and B.S. Rajan, "Distributed Computation: Privacy, Straggler Mitigation, and Security Against Colluding Workers," IEEE GLOBECOM 2020 doi: 10.1109/GLOBECOM42002.2020.9322092.
- Other publications: <u>kanishakvaidya.github.io/phd-progress/publications</u>

PROJECTS

- Communications: OFDM simulation and analysis on Simulink and MATLAB
- Communications: Created python modules for finite field operations
- **Computer vision**: Camera rotation and translation from images on python
- Hobby projects: Maintain a Linux distribution and package repository
- Other projects: <u>kanishakvaidya.github.io/phd-progress/projects</u>

KEY COURSES

Digital Communication	Error Control Coding	Matrix Theory
Wireless Communication	Random Process	Detection and Estimation
Space-Time Coding	Information Theory	Optimization theory
Computer Vision	Machine Learning	Digital Image Processing