## 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

#### **Professional Skills**

- Research and analysis
- Teaching and mentoring
- Scientific writing
- Critical thinking

## **Technical Strengths**

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

## **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 the Electrical Communication Engineering department at IISc Bangalore, I specialize in private information retrieval, cache-aided networks, and distributed systems. My research is focused on addressing privacy concerns in distributed systems and developing new techniques for straggler mitigation. I have a strong background in coding, signal processing, and information theory and I have also worked on image processing and computer vision projects.

#### **RECENT PUBLICATIONS**

- Kanishak Vaidya and B. Sundar Rajan, "Cache-Aided Multi-User Private Information Retrieval Using PDAs," 2023 IEEE Information Theory Workshop (ITW), Saint-Malo, France, 23-28 April 2023.
- Kanishak Vaidya and B. Sundar Rajan, "Private Information Delivery with Coded Storage," 2022 - 2022 IEEE International Symposium on Information Theory (ISIT 2022), Espoo, Finland, 24 June – 2 July 2022.
- Kanishak Vaidya and B. Sundar Rajan, "Cache-Aided Multi-Access Multi-User Private Information Retrieval," 2022 20th International Symposium on Modeling and Optimization in Mobile, Ad hoc, and Wireless Networks (WiOpt), Torino, Italy, 2022, pp. 246-253, doi: 10.23919/WiOpt56218.2022.9930597.
- Other publications: <a href="mailto:kanishakvaidya.github.io/phd-progress/publications">kanishakvaidya.github.io/phd-progress/publications</a>

## **PROJECTS**

- Image segmentation using watershed transform
- Image mosaic using homography estimation
- Hobby projects: Maintain a Linux distribution and package repository
- Other projects: <u>kanishakvaidya.github.io/phd-progress/projects</u>

## **EDUCATION**

PhD, M.Tech	IISc Bangalore	Aug 2018 - Present	CGPA: 8.9/10
B.Tech	JNGEC Sundernagar	Aug 2013 - Jul 2017	69.4%
10+2	Kendriya Vidyalaya Mandi	2012-13	85.4%
Matriculation	Kendriya Vidyalaya Mandi	2010-11	CGPA: 9.2/10