KANISHAK VAIDYA

Address: B Block, IISc Bangalore, Bengaluru, Karnataka. 560012

E-mail: kanishakvaidya@gmail.com Website: kanishakvaidya.github.io/phd-progress/

Academic Achievements and Scholarships

- Granted PMRF: January 2020
- GATE (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/Pandoc, 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: kanishakvaidya.github.io/phd-progress/publications

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 |