DHRITI KHANNA

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Indraprastha Institute of Information Technology, Delhi
Okhla Phase 3, Delhi-110020

Education

PH.D., COMPUTER SCIENCE   *AUGUST 2015-PRESENT*

IIIT Delhi   *Current CGPA: 9.0*
Supervisors: Dr. Rahul Purandare (IIIT-Delhi) and Dr. Subodh Sharma (IIT-Delhi)

MASTERS IN SCIENCE, COMPUTER SCIENCE   *2012*

Department Of Computer Science, University Of Delhi   *Percentage: 82.85*
Supervisors: Dr. Vasudha Bhatnagar, Dr. Sharanjit Kaur

BACHELORS IN SCIENCE (H), COMPUTER SCIENCE   *2010*

College: Deen Dayal Upadhyaya college, University of Delhi   *Percentage: 72.8*

Experience

TEACHING ASSISTANT   IIIT DELHI

Program Analysis   *Monsoon 2016*
Data structures and Algorithms   *Winter 2016*
Advanced Programming   *Monsoon 2015*

ASSISTANT PROFESSOR   UNIVERSITY OF DELHI

Taught undergraduate courses   *Jan 2013 – April 2015*

SOFTWARE ENGINEER   NAGARRO SOFTWARE PVT. LTD.

Worked on developing ERP software   *Jul 2012 – Dec 2012*
(.NET and Microsoft Silverlight)

Awards and Achievements

• Awarded Ph.D. fellowship for 4 years by TCS Research and Development in 2016.
• Qualified GATE with AIR 1356 and marks 48.39 (Score: 633) in 2015.
• Cleared National Eligibility Test for lectureship in June 2012 and June 2014.

Publications

- **Dhriti Khanna**, Subodh Sharma, César Rodrigues, Rahul Purandare. "Dynamic Symbolic Verification of MPI Programs." In: Formal Methods: 466-484 (2018)

- **Dhriti Khanna**. "Analysis and Verification of Message Passing based Parallel Programs." In: Doctoral Symposium, FLoC (2018).

- Vasudha Bhatnagar, Sharanjit Kaur, Rakhi Saxena, **Dhriti Khanna**. "DASC: data aware algorithm for scalable clustering.**"** In: Knowledge and Information Systems: 851-881 (2017)

- Sukrit Kalra, Ayush Goel, **Dhriti Khanna**, Mohan Dhawan, Subodh Sharma, Rahul Purandare. "POLLUX: safely upgrading dependent application libraries." In: Foundations of Software Engineering 290-300 (2016)

- Sharanjit Kaur, Rakhi Saxena, **Dhriti Khanna**, Vasudha Bhatnagar. "Comparing Data Processing Frameworks for Scalable Clustering." In: FLAIRS (2014)

Skills and Abilities

TECHNICAL EXPOSURE

- Soot: Static Analysis framefork for Java
- Symbolic Path Finder: A symbolic execution engine
- z3: SMT constraint solver
- PIN: Dynamic binary instrumentation and analysis framework for C++
- ISP: Dynamic verification engine

ORGANIZATIONAL SKILLS

- I helped organize many workshops for students in my academic career such as: Ethical hacking, Drupal, FOSS.
- I was part of the core committee management team of University of Delhi's technical festival *Sankalan* as Joint Secretary.

References

Dr. Rahul Purandare
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Assistant Professor
IIIT Delhi

Dr. Subodh Sharma
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Assistant Professor
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Dr. Vasudha Bhatnagar
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Associate Professor
Dept. of Computer Science,
University of Delhi