

Aditya Anand

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🌐 <https://github.com/adityaanand7>

• 🌐 www.adityaanand7.github.io

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Research Interest

I am broadly interested in developing efficient and precise static+dynamic program-analysis techniques, with a current emphasis on developing a speculation-based static+dynamic technique for Java-like languages.

Education

Program	Institution/Board	%/CGPA	Year
PhD (Computer Science & Engg.)	Indian Institute of Technology Bombay Maharashtra, India	8.56/10	Ongoing
PhD (Computer Science & Engg.) Transfer to IIT B	Indian Institute of Technology Mandi Himachal Pradesh, India		April 2023
B.E. (Computer Science & Engg.)	Siddaganga Institute of Technology Karnataka, India	9.52/10	May 2019

Publications

- Aditya Anand and Manas Thakur. "Partial Program Analysis for Staged Compilation Systems". (To appear) *Formal Methods in System Design (FMSD) Springer, 2024*.
- Aditya Anand, Solai Adithya, Swapnil Rustagi, Priyam Seth, Vijay Sundaresan, Daryl Maier, V. Krishna Nandivada, and Manas Thakur. "Optimistic Stack Allocation and Dynamic Heapification for Managed Runtimes". (To appear) *In Proceedings of the ACM on Programming Languages (PLDI), Copenhagen, Denmark, June 24-28, 2024*.
- Aditya Anand. "A Study of the Impact of Callbacks in Staged Static+Dynamic Partial Analysis". *In Companion Proceedings of the 2022 ACM SIGPLAN International Conference on Systems, Programming, Languages, and Applications: Software for Humanity (SPLASH Companion 2022)*.
- Aditya Anand and Manas Thakur. "Principles of Staged Static+Dynamic Partial Analysis". *In Proceedings of the 29th Static Analysis Symposium (SAS 2022), Auckland, New Zealand, December 5th-10th, 2022*.

Professional Experience

- Artifact Evaluation Committee Member:
 - Programming Language Design and Implementation (**PLDI 2024**)
 - European Conference on Object-Oriented Programming (**ECOOP 2024**)

Teaching Experience

- Teaching Assistant, CS6004: Code Optimization for Object-Oriented Languages, IIT Bombay **Spring 2024**
- Teaching Assistant, CS614: Advanced Compiler, Indian Institute of Technology Bombay **Autumn 2023**
- Teaching Assistant, CS515: Advanced CS Practicum, Indian Institute of Technology Mandi **Fall 2022**
- Teaching Assistant, CS611: Program Analysis, Indian Institute of Technology Mandi **Spring 2022**
- Teaching Assistant, CS502: Compiler Design, Indian Institute of Technology Mandi **Fall 2021**
- Teaching Assistant, CS302: Paradigms of Programming, Indian Institute of Technology Mandi **Spring 2021**

Workshops and Conference Attended

- Attended virtually the *International Conference on Systems, Programming, Languages, and Applications: Software for Humanity (SPLASH 2023)*, Cascais, Portugal.
October 22-27, 2022

- o Attended the workshop on *Software Engineering Research in India update meeting (SERI)*, Goa University, Goa.
June 2-3, 2023
- o Attended *International Conference on Systems, Programming, Languages, and Applications: Software for Humanity (SPLASH 2022)*, Auckland, New Zealand.
December 05-10, 2022
- o Attended *35th European Conference on Object-Oriented Programming (ECOOP)*, Virtual Event.
July 13-17, 2021
- o Attended the workshop on *3rd Software Engineering Research in India update meeting (SERI)*, Virtual Event.
July 15-17, 2021

Achievements/Awards

- o SIGPLAN Fellowship, PLMW and PLDI 2024. **2024**
- o Poster Presentation winner RISC 24, IIT Bombay. **2024**
- o Excellence in Teaching Assistantship, IIT Bombay. **Autumn 2023**
- o GATE Fellowship, Government of India. **2020**
- o 4th rank in B.E, Department of Computer Science, VTU, Belgavi, Karnataka. **2019**
- o 1st rank in Inter College Technical Quiz Competition. **2018**
- o Awarded as *Rajya Puraskar* in Bharat Scouts and Guides. **2013**