

# Aditya Anand

## Indian Institute of Technology Bombay

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🌐 <https://github.com/adityaanand7>

• 🌐 [www.adityaanand7.github.io](http://www.adityaanand7.github.io)

• 🌐 [www.linkedin.com/in/adityaanand7](http://www.linkedin.com/in/adityaanand7)

## 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". *Formal Methods in System Design (FMDS) Springer, 2024*.[\[URL\]](#)
- 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". *In Proceedings of the ACM on Programming Languages (PLDI), Copenhagen, Denmark, June 24-28, 2024*.[\[URL\]](#)
- 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)*.[\[URL\]](#)
- 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*.[\[URL\]](#)

## 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)*, Cascasis, Portugal.

**October 22-27, 2023**

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

## Achievements/Awards

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