

# Resume

Jatin Arora

Email: [jatina@andrew.cmu.edu](mailto:jatina@andrew.cmu.edu)

Web: [www.cs.cmu.edu/~jatina](http://www.cs.cmu.edu/~jatina)

---

## Education

- **Carnegie Mellon University**, Ph.D. Student, Computer Science Department 2019 - now  
Advisor: [Umut A. Acar](#)
- **Indian Institute of Technology, Bombay**, B. Tech. in Computer Science 2015 - 2019  
Advisors: [Supratik Chakraborty](#) & [S. Krishna](#)

## Awards

- Distinguished paper award at International Conference on Functional Programming (ICFP) 2022
- Distinguished paper award at Symposium on Principles of Programming Languages (POPL) 2021
- All India Rank-54 in IIT-JEE, amongst 1.35 million applicants. 2015

## Publications

- Entanglement Detection With Near-Zero Cost** ICFP 2022  
*Sam Westrick, Jatin Arora, Umut A. Acar*  
In ACM SIGPLAN International Conference on Functional Programming  
*Recipient of the Distinguished Paper Award*
- Provably Space Efficient Parallel Functional Programming** POPL 2021  
*Jatin Arora, Sam Westrick, Umut A. Acar*  
In ACM SIGPLAN Symposium on Principles of Programming Languages  
*Recipient of the Distinguished Paper Award*
- Knowledge compilation for boolean functional synthesis** FMCAD 2019  
*S. Akshay, Jatin Arora, S. Chakraborty, S. Krishna, Divya Raghunathan, Shetal Shah*  
In Formal Methods in Computer Aided Design
- Verification of (concurrent) programs under the release-acquire semantics** PLDI 2019  
*Parosh Aziz Abdulla, Jatin Arora, Mohamed Faouzi Atig, S. Krishna.*  
In ACM SIGPLAN Conference on Programming Language Design and Implementation

## Internships

- **Automated Reasoning Group, Amazon.** 2021  
Manager: [Rustan Leino](#)  
Work: Proof stability in the dafny programming language
- **Max Planck Institute for Software Systems.** 2019  
Manager: [Rupak Majumdar](#)  
Work: Probabilistic testing of distributed systems
- **Uppsala University.** 2018  
Managers: [Parosh Abdulla](#) & [Mohamed Faouzi Atig](#)  
Work: Model checking concurrent programs under the RA semantics