

Nisarg Patel

Curriculum Vitae

PERSONAL DETAILS

Web <https://nisargrp.github.io>
E-Mail nisarg@nyu.edu

WORK EXPERIENCE

- Certora, Inc.** Aug 2024- Present
- Formal Verification Researcher
- New York University** Aug 2018 - Aug 2024
Advisor: Prof. Thomas Wies
- PhD Student
- Nokia Bell Labs (Research Intern)** June 2021- Aug 2021
Mentors: Dr. Kedar Namjoshi
- Program Synthesis using SAT/QBF-solvers
- Nokia Bell Labs (Research Intern)** June 2020- Aug 2020
Mentors: Dr. Kedar Namjoshi
- Synthesis of Compact Strategies for Coordination Programs
- Universite Paris Diderot (Research Intern)** May 2017- July 2017
*Mentors: Prof. Ahmed Bouajjani, Prof. Constantin Enea
and Prof. Madhavan Mukund*
- Verification of Web Services.

PUBLICATIONS

- **Verifying Lock-free Search Structure Templates**
Nisarg Patel, Dennis Shasha and Thomas Wies
European Conference on Object-Oriented Programming (ECOOP), 2024
- **Synthesis of Compact Strategies for Coordination Programs**
Kedar Namjoshi and Nisarg Patel
Tools and Algorithms for the Construction and Analysis of Systems (TACAS), 2022
- **Verifying Concurrent Multicopy Search Structures**
Nisarg Patel, Siddharth Krishna, Dennis Shasha and Thomas Wies
Object-Oriented Programming Systems Languages and Applications (OOPSLA), 2021
- **Automated Verification of Concurrent Search Structures**
Siddharth Krishna, Nisarg Patel, Dennis Shasha and Thomas Wies
Morgan & Claypool Publishers, 2021
- **Verifying Concurrent Search Structure Templates**
Siddharth Krishna, Nisarg Patel, Dennis Shasha and Thomas Wies

Programming Languages Design and Implementation (PLDI), 2020

EDUCATION

PhD in Computer Science

New York University, New York, USA

Advisor: Prof. Thomas Wies

August 2018 - Present

CGPA - 3.914/4

MSc in Computer Science

Chennai Mathematical Institute, Chennai, India

August 2016 - July 2018

CGPA - 9.62/10

BSc in Mathematics and Computer Science

Chennai Mathematical Institute, Chennai, India

August 2013 - July 2016

CGPA - 8.64/10

TEACHING EXPERIENCE

- *TA*: Programming Languages, New York University, September-December 2022
- *TA*: Programming Languages, New York University, September-December 2021
- *TA*: Data Mining and Machine Learning, Chennai Mathematical Institute, August-November 2017.

AWARDS AND SCHOLARSHIPS

- **Chennai Mathematical Institute Scholarship** for academic excellence.
- **INSPIRE Scholarship by Government of India** for distinction in Sciences.
- **Conferences/Summer Schools**
 - VMCAI Winter School Scholarship (2020)
 - Marktoberdorf Summer School Travel Grant (2019)
 - CAV Student Volunteer (2019)