

Nisarg Patel

Curriculum Vitae

PERSONAL DETAILS

Web www.cs.nyu.edu/~nrp364
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Address NYU, 60 Fifth Avenue, New York, NY 10011

EDUCATION

PhD in Computer Science August 2018 - Present
New York University, New York, USA CGPA - 3.914/4
Advisor: Prof. Thomas Wies

MSc in Computer Science August 2016 - July 2018
Chennai Mathematical Institute, Chennai, India CGPA - 9.62/10

BSc in Mathematics and Computer Science August 2013 - July 2016
Chennai Mathematical Institute, Chennai, India CGPA - 8.64/10

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

INTERNSHIPS

Nokia Bell Labs June 2021- Aug 2021
Mentors: Dr. Kedar Namjoshi
• Program Synthesis using SAT/QBF-solvers

Nokia Bell Labs June 2020- Aug 2020

Mentors: Dr. Kedar Namjoshi

- Synthesis of Compact Strategies for Coordination Programs

Universite Paris Diderot, Paris, France

May 2017- July 2017

*Mentors: Prof. Ahmed Bouajjani, Prof. Constantin Enea
and Prof. Madhavan Mukund*

- Verification of Web Services.

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.

RELEVANT COURSEWORK

Distributed Systems	Abstract Interpretation
Infinite State Verification	Model Checking and Systems Verification
Mechanism Design	Concurrency Theory
Machine Learning	Reinforcement Learning

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)