

NICOLA ASSOLINI

Currently, I am a PhD student at the **University of Verona**. My research interests are **quantum programming languages**, **static analysis**, and **abstract interpretation**.

PERSONAL DATA

DATE OF BIRTH: Brescia, BS | 29/11/1998
EMAIL: nicola.assolini.98@gmail.com , nicola.assolini@univr.it
LINKEDIN: www.linkedin.com/nicola-assolini
WEBSITE: nicolaassolini98.github.io
SCHOLAR: [Nicola Assolini](#)

EXPERIENCES

10/2024 - 12/2024	VISITING RESEARCHER, UNIVERSITY OF ARIZONA, TUCSON <i>Visiting researcher at University of Arizona under the supervision of Prof. Roberto Giacobazzi</i>
05/2024 - 06/2024	VISITING RESEARCHER, TSINGHUA UNIVERSITY, BEIJING <i>Visiting researcher at Tsinghua University and Institute of Software, Chinese Academy of Sciences under the supervision of Prof. Mingsheng Ying</i>
2020 - 2021	RESEARCH FELLOW, UNIVERSITY OF VERONA <i>Development of a technology for the management of finance facilitated with machine learning and semantic web methods</i>
2020	RESEARCH FELLOW, ALTAIR ROBOTICS LAB <i>Design and implementation Of algorithms for statistical analysis of experimental results</i>

EDUCATION

2022 -	PHD IN COMPUTER SCIENCE University of Verona Computer Science Department Interest: quantum programming languages, quantum software, abstract interpretation Advisors: Prof. Alessandra Di Pierro, Prof. Isabella Mastroeni
2020 - 2022	MASTER'S DEGREE IN COMPUTER SCIENCE AND ENGINEERING, CLASS LM-32 FINAL GRADE 110/110 CUM LAUDE University of Verona Thesis: "A static analysis for uncomputation in quantum programming languages" Supervisor: Alessandra Di Pierro
2017 - 2020	BACHELOR'S DEGREE IN COMPUTER SCIENCE, CLASS L-31 FINAL GRADE 110/110 CUM LAUDE University of Verona
2017	DIPLOMA (MATURITÀ SCIENTIFICA) FINAL GRADE 80/100 Scientific Lyceum - Don Milani Montichiari

PUBLICATIONS AND TALKS

IN CONFERENCE PROCEEDINGS

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| 2025 | Nicola Assolini, Alessandra Di Pierro and Isabella Mastroeni.
"A Static Analysis for High-Level Quantum Programming Languages", In VMCAI 2025 |
| 2024 | Nicola Assolini, Alessandra Di Pierro and Isabella Mastroeni.
"Static analysis of quantum programs", In SAS 2024

Nicola Assolini, Alessandra Di Pierro and Isabella Mastroeni.
"Abstracting entanglement, International", In NSAD 2024 |

WORKSHOPS

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| 2024 | "A Static Analysis for High-Level Quantum Programming Languages", In (WQS 24) |
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TEACHING AND TUTORING

TEACHING ASSISTANT

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| 2024 - | Quantum computing course (Laboratory part), MSc Computer Science
University of Verona |
| 2020 - 2023 | Foundations of Computing course, BSc Computer Science
University of Verona |
| 2022 - 2023 | Compilers course (Laboratory part), BSc Computer Science
University of Verona |

TUTORING

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| 2022 - | Organizer and Tutor of Cyberchallenge project
University of Verona |
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SCHOOLS

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| 2024 | Lipari Summer School on Abstract Interpretation [link] |
| 2023 | EQAI 2023 - Quantum Machine and Deep Learning [link] |

SERVICE

- Program Committee and Organizing Committee Member of Workshop on Quantum Software (**WQS**) 2024 and 2025.
- I am part of [SIGPLAN-AV team](#) and I have been Video co-chair during **POPL 25** and **SPLASH 2024**.

ACHIEVEMENTS

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| 2022 | Qualified for the national competition of the CyberChallenge.IT project |
| 2017 | Member of a finalist team in the National Mathematics Olympics |