Denis Mazzucato

Ph.D. Student

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- (Accepted) **Postdoc**, GSSI, CMU & NASA, California (USA) and L'Aquila (IT),
 - 2025 advised by Franco Raimondi and Corina Pasareanu

 Proving the Absence of Timing Side Channels in Cryptographic Applications
- 2020–2024 **Ph.D.**, Inria & École Normale Supérieure | PSL, Paris (FR), supervised by Caterina Urban Static Analysis by Abstract Interpretation of Quantitative Program Properties
- 2015–2020 **Master and Bachelor**, *University of Padua*, Padua (IT), magna cum laude 110/110 Computer Science, Dipartimento di Matematica, Università degli Studi di Padova

Experiences and Awards

- 2024–2025 **Research intern**, *CMU*, NASA, California (USA) Five months researcher position at CMU & NASA with Corina Pasareanu.
 - Fundings Award, Automated Reasoning Amazon Research Award, Amazon, \$70,000 "Proving the Absence of Timing Side Channels in Cryptographic Applications" with Corina Pasareanu.
 - 2023 **Summer School**, *Summer School Marktoberdorf*, Marktoberdorf (DE) Scientific foundations and technologies for improving the quality and security of software.
 - 2022 **Research intern**, *Amazon*, Prime Video, London (UK)
 Six months internship project in Amazon Prime Video as a research intern.
- 2019–2020 **Exchange Program**, *Vrije Universiteit*, Amsterdam (NL) Six months exchange program at the VU in Amsterdam.
 - 2018 **Developer**, *THRON*, Piazzola sul Brenta, Padua (IT) Quality Assurance, three months internship.

Interest

Static Analysis, Abstract Interpretation, Verification, Security, Formal Methods, Theorem Provers

Research Service

- Speaker SAS 2021/22/24, NFM 2024, CSV 2023, Amazon 2022, MRG Imperial College London 2022, Antique Research Team 2021/22/23
- Sub-Reviewer CSV 2024, TACAS 2023, CAV 2021
- Artifact Eval. PLDI 2024, ECOOP 2024 TACAS 2023/24, CAV 2023, SAS 2022/23
- Student Vol. ETAPS 2023, SPLASH 2022/23, CAV 2021

Publications

- SAS 2024 Quantitative Static Timing Analysis,
 - Denis Mazzucato, Marco Campion, and Caterina Urban
- NFM 2024 Quantitative Input Usage Static Analysis, https://hal.science/hal-04339001 <u>Denis Mazzucato</u>, Marco Campion, and Caterina Urban
- SAS 2021 Reduced Products of Abstract Domains for Fairness Certification of Neural Networks, https://doi.org/10.1007/978-3-030-88806-0_15 Denis Mazzucato and Caterina Urban