Denis Mazzucato
Ph.D. Student

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in denis-mazzucato

Education

2024–Feb. 2025	**Postdoc**, *Carmege Mellon University & NASA*, Pittsburgh, PA & Mountain View, CA (USA) Six months short Postdoc position at CMU & NASA with Corina Pasareanu
2020–Dec. 2024	**Ph.D.**, *Inria & École Normale Supérieure | PSL*, Paris (FR), supervised by Caterina Urban *Static Analysis by Abstract Interpretation of Quantitative Program Properties*
2015–Sep. 2020	**Master and Bachelor**, *University of Padua*, Padua (IT), magna cum laude 110/110 Computer Science, Dipartimento di Matematica, Università degli Studi di Padova

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Experiences and Awards

2024	**Radhia Cousot Award**, *SAS 2024*, Pasadena (USA), "Quantitative Static Timing Analysis"
2024	**Fundings Award**, *Automated Reasoning Amazon Research Award*, Amazon "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
2020	**Exchange Program**, *Vrije Universiteit*, Amsterdam (NL) Six months student exchange program
2018	**Developer**, *THRON*, Piazzola sul Brenta, Padua (IT) Quality Assurance, three months internship

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Work Interest

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

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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
Teaching Asst.	*Python Bootcamp* at the CRI institute (2021)
Teacher	*Research Project* at Master AIRE of Digital Sciences at Université Paris Cité (2023)

Publications

SAS 2024	**Quantitative Static Timing Analysis**, `https://hal.science/hal-04669723` <u>Denis Mazzucato</u>, Marco Campion, and Caterina Urban
NFM 2024	**Quantitative Input Usage Static Analysis**, `https://doi.org/10.1007/978-3-031-60698-4_5` <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` <u>Denis Mazzucato</u> and Caterina Urban

Last updated: October 21, 2024