Denis Mazzucato
Ph.D. Student

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🌐 denismazzucato.github.io

Education

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

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 stage.

Programming languages

Fluent	Python, Scala
Known	Agda, C, C++, Haskell, Java, Lean, OCaml

Spoken languages

Fluent	English, Italian
Known	French, Dutch

Interest

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

Conference Service

Sub-Reviewer	CAV 2021, TACAS 2023, CSV 2024
AEC	PLDI 2024, CAV 2023, TACAS 2023/24, SAS 2022/23, ECOOP 2024
SV	CAV 2021, SPLASH 2022/23, ETAPS 2023

Publications

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

Projects   - full overview in `https://github.com/denismazzucato`

Haskell	**wstat**, *Static Analyzer by Abstract Interpretation*, `github.com/parof/wstat` For the final evaluation of the *Software Verification* course taught by *Prof. Francesco Ranzato*.
Lean	**Noninterference Flow**, `github.com/denismazzucato/noninterference-lean` This was a project related to the *Logical Verification* course taught by *Prof. Jasmin Blanchette* at the VU.
MCS Thesis	**Solving systems of fixpoint equations: an algorithmic perspective**, 2020 Thesis produced under the supervision of *Prof. Paolo Baldan* and *Tommaso Padoan*.