

Denis Mazzucato

Ph.D. Student

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Education

- 2020–2023 **Ph.D.**, *ANTIQUE*, Inria & DI/ENS, Paris (FR), École Normale Supérieure | Université PSL.
“Static Analysis by Abstract Interpretation of Machine-Learned Software”
- 2018–2020 **Master**, *University of Padua*, Padua (IT), magna cum laude.
Computer Science, Dipartimento di Matematica, Università degli Studi di Padova

Experience

Erasmus

- 2019–2020 **Vrije Universiteit**, *Amsterdam (NL)*, Science Department.
Six months exchange program at the VU university in Amsterdam.

Stage

- 2018 **Developer**, *THRON*, Piazzola sul Brenta, Padua (IT).
Quality Assurance, 320 hours in three months.

Miscellaneous

- 2016–2020 **Waiter**, *Antica Trattoria Ballotta*, Torreglia (PD).
Restaurant Sommelier, more than 4000 hours

Languages

Italian	Mother Tongue	<i>First Language</i>
English	C1 (7 IELTS)	<i>IELTS May 2019</i>
French	A2	<i>Inria 2021</i>
Dutch	A1	<i>VU-NT2 October 2019</i>

CS hard-skills

Haskell, Agda, Lean, C, C++, Java, Python.

Interest

Static Program Analysis, Formal Verification and Validation, Formal methods, Functional Languages, Compilers, Programming Languages, Theorem Provers, Machine Learning, Data science.

Publications

- SAS2021 **Reduced Products of Abstract Domains for Fairness Certification of Neural Networks**,
Denis Mazzucato and Caterina Urban, SAS2021, doi.org/10.1007/978-3-030-88806-0_15.

Projects - full overview in my GitHub page

- 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*.
- MCS Thesis **Solving systems of fixpoint equations: an algorithmic perspective**, 2020.
Thesis produced under the supervision of *Prof. Paolo Baldan* and *Tommaso Padoan*.