

Nicola Bottura

POSITIONS & EDUCATION

Nov 2025 –	R&D Specialist , Aegillon s.r.l.
Mar 2025 – Jul 2025	Visiting PhD Researcher , University of Twente, Enschede (NL) Topic: Code analysis for vulnerability discovery Supervisor: Prof. Andrea Continella
2022 – Present	PhD in Engineering in Computer Science , Sapienza University of Rome Topic: Analysis and Monitoring techniques applied to Prevention and Identification of threats Supervisors: Prof. Daniele Cono D’Elia & Prof. Leonardo Querzoni
Mar 2022 – May 2022	Research Fellow , CINI Topic: Dynamic Binary Instrumentation techniques applied to Windows malware
2019 – 2021	M.Sc. in Cybersecurity , Sapienza University of Rome
2015 – 2019	B.Sc. in Computer Science , University of Modena and Reggio Emilia

PUBLICATIONS

- [1] *Pfuzzer: Practical, Sound, and Effective Multi-path Analysis of Environment-sensitive Malware with Coverage-guided Fuzzing*
N. Bottura, D.C. D’Elia, L. Querzoni. **IEEE EuroS&P 2025**
- [2] *POSTER: All Right Then, (Don’t) Keep Your Secrets: Exposing API Hashing in Malware*
N. Bottura, G. Di Pietro, Y. Yamada, D. C. D’Elia, L. Querzoni. **DIMVA 2025**

PATENTS

Methods and Systems for Analyzing Environment Sensitive Malware with Coverage-guided Fuzzing
Invetors: D.C. D’Elia, N. Bottura
Patent Numbers: EP4312401, IT202200015966A1

TEACHING

AY 2023/2024 **Tutor**, Laboratorio di Architetture Software e Sicurezza Informatica, Sapienza
AY 2022/2023 **Tutor**, Laboratorio di Architetture Software e Sicurezza Informatica, Sapienza

MASTER STUDENTS CO-SUPERVISED

Yuya Yamada (Nara Institute of Science and Technology)
Master Thesis: API hash deobfuscation method based on hashing process identification using memory access information

Federica Bianchi (Sapienza University of Rome)
Honours Programme: Analysis of evasive malware with program analysis techniques

SERVICE

- 2025 Artifact Evaluation Committee member for [NDSS’26](#)—Network and Distributed System Security Symposium
- 2025 Artifact Evaluation Committee member for [ACM CCS’25](#)—ACM Conference on Computer and Communications Security

LANGUAGES

Italian Native
English Fluent

Il sottoscritto dichiara di essere consapevole che il presente curriculum vitae sarà pubblicato sul sito istituzionale dell'Ateneo, nella Sezione "Amministrazione trasparente", nelle modalità e per la durata prevista dal d.lgs. n. 33/2013, art. 15.

Data

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