

Alberto Maria Mongardini

Curriculum Vitae

Current Position

2025 – now **PostDoctoral Researcher**, *Computer Science Department*, Technical University of Denmark.
Research on Cyber Deception (Honeypots, Moving Target Defense)

Previous Work Experience

2024 – 2025 **PostDoctoral Researcher**, *Computer Science Department*, Sapienza University of Rome.
Research on security and privacy in Online Social Systems (OSNs and Blockchains).
2023 **Short-Term Scholar**, *Computer Science Department*, George Mason University.
Research on cryptographic approaches to provide accountability in Bitcoin's transactions.

Education

2020 – 2024 **PhD in Computer Science**, *Sapienza University of Rome*, Italy.
Advisor: Prof. Alessandro Mei, **Cycle:** XXXVI, **Grade:** Summa cum Laude
PhD Schools:
◦ *International Winter School of Northern Lights Deep Learning Conference 2023*, Tromsø, Norway, 2023
◦ *International Summer School on Deep Learning*, Gran Canaria, Spain, 2021
◦ *CS Doctoral Workshop*, Bertinoro, 2021
◦ *Challenges in Building Billion User Cloud Applications*, Rocca Sinibalda, 2019
2019 – 2020 **Master degree in Computer Science**, *Sapienza University of Rome*, Italy, **Advisors:** Prof. Luigi Vincenzo Mancini, Alessandro Mei, Sushil Jajodia.
Grade: Summa cum Laude
2015 – 2018 **Bachelor degree in Computer Science**, *Sapienza University of Rome*, Italy, **Advisor:** Prof. Alessandro Mei, **Grade:** Summa cum Laude.
2010–2014 **Classical education degree**, *Liceo classico Lucrezio Caro*, **Grade:** 100/100.

Experience Abroad

2025 **Speaker**, TORONTO, Speaker of the paper: "TG- Dataset: Collecting and Exploring the Largest Telegram Channels Dataset" for KDD '25.
2024 **Attendee at Devcon 2024**, Bangkok, Thailand, November, 2024.

- 2023 **Visiting researcher**, GEORGE MASON UNIVERSITY, USA, Apr 2023 - Oct 2023, Host: Prof. Giuseppe Ateniese.
The visit focused on algorithmic, cryptographic, and IA-based approaches for anonymity and privacy in blockchains.
- 2023 **Speaker**, HONG KONG, Speaker of the paper: "A Game of NFTs: Characterizing NFT Wash Trading in the Ethereum Blockchain" for ICDCS '23.

Grants

- 2023 **Travel grant**, *43th IEEE International Conference on Distributed Computing Systems (ICDCS 2023) Travel Grant*, IEEE Computer Society's Technical Community on Distributed Processing, $\approx$ \$1'000.
- 2023 **Avvio Alla Ricerca Tipo 2**, *Beyond Traditional Stealth Addresses: Empowering Bitcoin Transactions with Enhanced Expressiveness and Privacy*, Sapienza University of Rome.
Role: **Principal Investigator** $\approx$ 2'000€
- 2023 **Grant for young researchers**, *Bando mobilità internazionale PHD 2022*, Sapienza University of Rome, $\approx$ 3'600€.
- 2022 **Avvio Alla Ricerca Tipo 1**, *NFTs Washtrading Detection within the Ethereum ecosystem*, Sapienza Università di Roma.
Role: **Principal Investigator** $\approx$ 1'000€
- 2021 **Progetti di Ricerca Grandi**, *Prebunking: predicting and mitigating coordinated inauthentic behaviors in social media*, Sapienza Università di Roma.
Role: **Component** $\approx$ 40'000€
- 2019 - 2021 **POR FESR**, *"ARCHEM: Augmented Reality for Cultural Heritage in Etruria Meridionale"*, POR FESR 2014-2020 RIPOSIZIONAMENTO COMPETITIVO – FASE II, Dipartimento di Informatica Sapienza.
Role: **Component** $\approx$ 80'000€

Scholarships and Awards

- 2024 **Postdoctoral Research Fellowship**, *Winner of a one-year research grant at the Department of Computer Science of Sapienza University of Rome.*
Code: AR-B 05/2024.
- 2020 **ARCHEM: Development of neural networks for the recognition of museum artworks**, *Winner of a self-employment assignment for the ARCHEM project, at the Department of Computer Science, University of Rome La Sapienza.*
Code: ICE 14/2021.
- 2020 **Doctoral scholarship**, *Winner of a three-year doctoral scholarship at the Department of Computer Science of Sapienza University of Rome, cycle XXXVI*, Dipartimento di Informatica, Sapienza Università di Roma.
- 2019 **Summer school scholarship**, *Google BUCA 2019 scholarship winner*, Rocca Sinibalda.

Academic services

- 2025 **Seminar**, *Cybersecurity Master's Program, Sapienza University of Rome*, Speaker of a seminar for students in the Master's Degree in Cybersecurity program, "Cryptocurrency Market Manipulations: Uncovering the Blockchain Wild West".
- 2025 **T-IFS**, *Reviewer for the IEEE Transactions on Information Forensics and Security*.
- 2025 **ICWSM 2025**, *Reviewer at 18TH International AAAI Conference on Web and Social Media*.
- 2025 **ICWS 2025**, *Reviewer at IEEE International Conference on Web Services*.
- 2024 **ICWSM 2024**, *Reviewer at 17TH International AAAI Conference on Web and Social Media*.
- 2023 **The Web Conference 2023**, *Subreviewer at the Web Conference 2023*.
- 2022 **CoNEXT 2022**, *Technical staff at International Conference on emerging Networking EXperiments and Technologies 2022*.

Publications

- KDD 2025 **ACM SIGKDD Conference on Knowledge Discovery and Data Mining**, *TG-Dataset: Collecting and Exploring the Largest Telegram Channels Dataset*, Massimo La Morgia, Alessandro Mei, **Alberto Maria Mongardini**.
- USENIX 2025 **USENIX Security Symposium**, *The Conspiracy Money Machine: Uncovering Telegram's Conspiracy Channels and their Profit Model*, Vincenzo Imperati, Massimo La Morgia, Alessandro Mei, **Alberto Maria Mongardini**, and Francesco Sassi.
- TOIT **ACM Transactions on Internet Technology**, *The Blockchain Warfare: Investigating the Ecosystem of Sniper Bots on Ethereum and BNB Smart Chain*, Federico Cernera, Massimo La Morgia, Alessandro Mei, **Alberto Maria Mongardini**, and Francesco Sassi.
- T-IFS **IEEE Transactions on Information Forensics and Security**, *DARD: Deceptive Approaches for Robust Defense against IP Theft*, **Alberto Maria Mongardini**, Massimo La Morgia, Sushil Jajodia, Luigi Vincenzo Mancini, and Alessandro Mei.
- TWEB **ACM Transactions on the Web**, *Pretending to be a VIP! Characterization and Detection of Fake and Clone Channels on Telegram*, Massimo La Morgia, Alessandro Mei, **Alberto Maria Mongardini**, and Jie Wu.
- ICWS 2023 **IEEE International Conference on Web Services - IEEE ICWS '23**, *It's a Trap! Detection and Analysis of Fake and Clone Channels on Telegram*, Massimo La Morgia, Alessandro Mei, **Alberto Maria Mongardini**, and Jie Wu.
- ICDCS 2023 **IEEE 43th International Conference on Distributed Computing Systems - ICDCS '23**, *A Game of NFTs: Characterizing NFT Wash Trading in the Ethereum Blockchain*, Massimo La Morgia, Alessandro Mei, **Alberto Maria Mongardini**, and Eugenio Nemmi.
- CAAW 2023 **Companion Proceedings of the Web Conference - CAAW '23**, *Ready, Aim, Snipe! Analysis of Sniper Bots and their Impact on the DeFi Ecosystem*, Federico Cernera, Massimo La Morgia, Alessandro Mei, **Alberto Maria Mongardini**, and Francesco Sassi.

Languages

Italian

English