Federico Magnanini

University of Modena and Reggio Emilia
Department of Engineering "Enzo Ferrari"
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Education

2019 → ongoing **PhD in Information and Communication Technologies (ICT)**
Departement of Engineering "Enzo Ferrari"
University of Modena and Reggio Emilia (Italy)
Advisor: Prof. Michele Colajanni
Main research interests: Cryptography, distributed ledgers

2016 → 2019 **Master's Degree in Computer Engineering**
Departement of Engineering "Enzo Ferrari"
University of Modena and Reggio Emilia (Italy)
Graduation mark: 110/110 **cum laude**
Thesis: *Design of a blockchain-based architecture for fully decentralized distribution and revenue management of digital contents*
Advisor: Prof. Michele Colajanni
Co-advisor: Ing. Luca Ferretti
Main subjects covered: Blockchain, cryptography

2013 → 2016 **Bachelor's Degree in Computer Engineering**
Departement of Engineering "Enzo Ferrari"
University of Modena and Reggio Emilia (Italy)
Thesis: *pLogger - Implementazione di un sistema di titolazione personalizzato*
Advisor: Prof. Nicola Bicocchi
Main subjects covered: Programming/Software development; Embedded systems

Research Activity

Short description   My research interests involve the study of applied cryptography and distributed ledgers to design intrusion tolerant systems.

Languages

native	**Italian**
proficient	**English** Cambridge FCE with Council of Europe Level C1
basic	**French**

Computer Skills

Programming Languages	Python, C#, Java, C, C++, SQL, Solidity
Operating Systems	Unix, Windows
Other Technologies	Git, LaTeX

Publications

- Federico Magnanini, Luca Ferretti, and Michele Colajanni. Scalable, Confidential and Survivable Software Updates. *IEEE Transactions on Parallel and Distributed Systems*, 2022

- Federico Magnanini, Luca Ferretti, and Michele Colajanni. Flexible and Survivable Single Sign-On. In *International Symposium on Cyberspace Safety and Security*. Springer, 2021

- Luca Ferretti, Federico Magnanini, Mauro Andreolini, and Michele Colajanni. Survivable Zero Trust for Cloud Computing Environments. *Elsevier Computers & Security, Special Issue On Zero-Trust Security in Cloud Computing Environments (CCE)*, 2021

- Federico Magnanini, Luca Ferretti, and Michele Colajanni. Efficient License Management Based on Smart Contracts Between Software Vendors and Service Providers. In *18th IEEE Int'l Symp. Network Computing and Applications*, Boston, Sept. 2019

Service

- Virtual Room Co-Officer at *20th IEEE Int'l Symp. Network Computing and Applications*, Nov. 2021

- Virtual Room Chair at *19th IEEE Int'l Symp. Network Computing and Applications*, Sept. 2020

- Volunteer at *18th IEEE Int'l Symp. Network Computing and Applications*, Boston, Sept. 2019