

# Emanuele Raso

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## Research Interest

My research activities focus on Cybersecurity, specifically *Data Privacy & Confidentiality*. My primary interests are related to the *Privacy Enhancing Technologies* in distributed contexts applying advanced cryptography.

## Education

2020-current **Ph.D. in Computer Science, Control and Geoinformation**, *University of Rome Tor Vergata*, Rome, Italy.

2016-2019 **Master's Degree in Computer Science Engineering**, *University of Rome Tor Vergata*, Rome, Italy.  
110/110

## Master's Degree Thesis

Title *Coprotect: gestione cooperativa di chiavi crittografiche per la sicurezza dei dati in sistemi cloud*

Supervisor Maurizio Naldi

## Languages

Italian Native

English Good written and spoken

## Experience

2021-current **Freelance Software Developer**, *Docunque SRL*, Rome, Italy.  
Integration with regional systems for healthcare SSN and FSE.

2020-current **Ph.D Student**, *University of Rome Tor Vergata*, Rome, Italy.  
"Enhance data privacy and confidentiality in Cloud Computing services through the use of cutting-edge cryptographic techniques, such as Functional Encryption and Homomorphic Encryption, adopting an experimental and not only theoretical approach", *Ph.D Project*

2019-2020 **Assistant Researcher**, *University of Rome Tor Vergata*, Rome, Italy.  
"Business Process Re-engineering and functional toolkit for GDPR compliance (BPR4GDPR)", *European H2020 project*.

## Teachings

- 2022 **Tutor, *University of Rome Tor Vergata***, Rome, Italy.  
Fundamentals of Informatics
- 2021 **Cybersecurity Lecturer, *University of Rome Tor Vergata***, Rome, Italy.  
Digital Healthcare
- 2018 **Tutor, *University of Rome Tor Vergata***, Rome, Italy.  
Fundamentals of Informatics

## Main Contributions

GitHub FHIR-Diet  
ABEBox  
AnonTool  
CoProtect

## Programming Skills

Programming C, C++, Java, Python, JavaScript, Node.js, Bash, Git, Assembly, AMPL  
Software Docker, Git  
Platform  
Software MATLAB, Visual Studio Code, Microsoft Office 365  
Operating Apple macOS, Linux distributions and Microsoft Windows  
Systems

## Publications

- 2022 "Privacy-Aware Architectures for NFC and RFID Sensors in Healthcare Applications", *E. Raso, G. M. Bianco, L. Bracciale, G. Marrocco, C. Occhiuzzi, P. Loreti*, MDPI Sensors (2022).
- 2022 "Towards a Hybrid UHF RFID and NFC Platform for the Security of Medical Data from a Point of Care", *G. M. Bianco, E. Raso, L. Fiore, A. Riente, A. B. Barba, C. Miozzi, L. Bracciale, F. Arduini, P. Loreti, G. Marrocco, C. Occhiuzzi*, IEEE 12th International Conference on RFID Technology and Applications (RFID-TA 2022) (**Best paper award**).
- 2022 "Performance Evaluation of Cryptographic Schemes for Blockchain Security of Smart Grids", *E. Raso, L. Bracciale, P. Gallo, G. Bernardinetti, G. Bianchi, E. Riva Sanseverino, P. Loreti*, IEEE Workshop on Blockchain for Renewables Integration (BLORIN 2022).
- 2022 "Privacy in Blockchain-based Smart Grids", *L. Bracciale, E. Raso, P. Gallo, E. Riva Sanseverino, G. Bianchi, P. Loreti*, IEEE Workshop on Blockchain for Renewables Integration (BLORIN 2022).
- 2022 "A Privacy-Preserving Blockchain Solution to Support Demand Response in Energy Trading", *L. Bracciale, P. Loreti, E. Raso, G. Bianchi, P. Gallo, E. Riva Sanseverino*, IEEE 21st Mediterranean Electrotechnical Conference (MELECON 2022).

- 2021 "GDPR Compliance Made Easier: the BPR4GDPR Project", *G. Lioudakis, E. Papa-  
giannakopoulou, M. Koukovini, N. Dellas, K. Kalaboukas, L. Bracciale, E. Raso, G.  
Bianchi, P. Loreti, P. Barracano, S. Alexakis, R. Medeiros de Carvalho, M. Hassani*,  
Advanced Research on Information Systems Security (*ARIS<sup>2</sup>*) (2021).
- 2021 "Toolate: cryptographic data access control for offline devices through efficient  
key rotation", *L. Bracciale, P. Loreti, E. Raso, G. Bianchi*, Proceedings of the 2th  
workshop on CPS&IoT security and privacy (CPSIoTSec 2021).
- 2021 "An SDN-Based Traffic Handover Control Procedure And SGD Management Logic  
For EHF Satellite Networks", *M.M. Aurizzi, T. Rossi, E. Raso, L. Funari, E. Cianca*,  
Computer Networks (2021).
- 2021 "ABEBox: A data driven access control for securing public cloud storage with efficient  
key revocation", *E. Raso, L. Bracciale, P. Loreti, G. Bianchi*, Proceedings of the  
16th International Conference on Availability, Reliability and Security (ARES 2021).
- 2020 "CoProtect: collaborative management of cryptographic keys for data security in  
cloud systems", *L. Bracciale, P. Loreti, E. Raso, M. Naldi, G. Bianchi*, Proceedings  
of the 6th International Conference on Information Systems Security and Privacy  
(ICISSP 2021).