

December 2023

Publications

- 2022 **The devil hides in the model: Reviewing Blockchain and BFT protocols**, *Springer, LNNS*.
Blockchain and Applications (BLOCKCHAIN)
- 2021 **Method for detecting anomaly(-ies) in a blockchain network**, *Patent US20230007035A1*.
Owned by Bull SA (ATOS group) & IRT System-X
- 2020 **The StakeCube blockchain : Instantiation, Evaluation & Applications**.
Second International Conference on Blockchain Computing and Applications (BCCA).
- 2019 **STAKECUBE: Combining Sharding and Proof-of-Stake to build Fork-free Secure Permissionless Distributed Ledgers**, *Springer, LNCS*.
The International Conference on Networked Systems (Netys)
- 2018 **Consortium blockchains: Overview, applications and challenges**, *IARIA*.
International Journal On Advances in Telecommunications
- 2017 **Data Aware Defense : towards a generic and practical ransomware countermeasure**, *Springer LNCS*.
Nordic Conference on Secure IT Systems (NordSec)

Experience

- January '22 – **Post-doc**, *Télécom Paris*, Paris.
- May '22 Blockchain protocol analysis
- 2017–2021 **PhD in Distributed Computing and Cryptology**, *Institut de Recherche Technologique - SystemX*, Télécom Paris, Atos-Bull, Institut Polytechnique de Paris.
Byzantine consensus and blockchain: Model unification and new protocols.
Part of the Blockchain Advanced Research and Technology (BART) joint research initiative.
- July '15 – **Part-time developer**, *RedBite Solutions*, Cambridge, UK.
- July '16 Android development
- June – **Malware analysis Internship**, *TAMIS team*, INRIA Rennes.
- August '16 Setup of an automated platform for malware analysis. Writing a kernel ransomware detection solution
- October – **Security Audit Internship**, *MondoBrain Inc*, Paris.
- June '17 Security audit of a web application and related services

Education

- 2016–2017 **Master in Cryptology and Cybersecurity**, *Bordeaux University*.
Labelled "SecNumEdu" by the French National Cybersecurity Agency (ANSSI)
- 2014–2017 **Engineering Diploma - Computer Science**, *ENSEIRB-MATMECA*, Bordeaux.
French Graduate Engineering School

Additional

- Skills Coq, C/C++, Java, Python, VCS
- Languages French (native), English (proficient, TOEIC 965/990)
- Interests Climbing, reading, lockpicking