

Abdul Qadir Khan

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WORK EXPERIENCE

Post Doctoral Researcher

Sept 2025 - present

LRE, EPITA

- Working with Prof. **Pierre Parrend** on using knowledge graphs to design attack-specific detectors for industrial control systems
- Teaching activities at Master's and Bachelor's level

Ph.D. Researcher

Oct 2021 - Dec 2024

Sorbonne Université / Institut Supérieur d'Electronique de Paris (Isep)

- **Title:** Knowledge Base Systems for Cybersecurity in the Internet of Things Environments
- **Supervisors:** Prof. Lina Mroueh, Dr. Nouredine Tamani, Dr. Saad EL Jaouhari
- **Expertise:** Knowledge base system, Knowledge representations, Contextual Models, Logical Reasoning, Complexity Analysis, IoT, Cybersecurity

Teaching Assistant

Nov 2022 - Jun 2024

Institut Supérieur d'Electronique de Paris (Isep)

- CT.1105 - Robotics (64h)
- CS.1108 - Computer Science (56h)

Master 2 Internship

Apr 2021 - Sept 2021

Inria, Sophia Antipolis, France

- I worked with the ETSI Standardization Committee SmartM2M on the development of a standard for Asynchronous Contact Tracing for COVID-19.
- I was involved in designing and implementing a prototype.
- **Supervisors:** Dr. Luigi Liqouri
- **Programming Languages:** Python, JavaScript

ERASMUS+ Mobility Internship

May 2020 - Dec 2020

Inria, Sophia Antipolis, France

- I worked with the ETSI standardization committee to develop the Advanced Semantic Resource Discovery standard.
- I participated in the simulation of the protocol.
- **Supervisors:** Dr. Luigi Liqouri
- **Tools and Programming Language:** OMNET++ Network Simulator, C++

EDUCATION

Sorbonne Université

Paris, France

Ph.D. in Computer Science

2021 - 2024

- **Title:** Knowledge Base Systems for Cybersecurity in the Internet of Things Environments (Thesis available [Here](#))
- **Keywords:** Knowledge Base Systems, IoT, Cybersecurity, Reasoning, Logic, Complexity Analysis

Université Côte d'Azur

Nice, France

Masters in Computer Engineering

2020 - 2021

- **Main Courses:** Security and Privacy, Performance Evaluation of Networks, Distributed Systems, Machine Learning, Internet of Things

Université Côte d'Azur

Nice, France

ERASMUS+ Mobility Programme

2019 - 2020

- **Main Courses:** Blockchain and Privacy, Data Mining for Networks, Cloud Computing

- **Main Courses:** Networking Protocols, Communication systems, Signal systems

SKILLS

| | |
|------------------------------|---|
| Programming Languages | Python, C/C++, JavaScript |
| Tools | OMNET++, HFSS Antenna Designing Simulator, Wireshark |
| Other skills | Software Development, AI, Risk Assessments, Ontologies, Internet of Things, Cloud, Telecommunication networks |
| Language Skills | English (Proficient), French (Intermediate), Urdu (Proficient), Pashto (Native speaker) |

SCIENTIFIC PUBLICATIONS

Khan, Abdul Qadir, Nouredine Tamani, Saad El Jaouhari, et al. (2023). "A Contextual Derivation Algorithm for Cybersecurity in IoT Environments". In: *2023 IEEE 22nd International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom)*, pp. 1430–1435. DOI: [10.1109/TrustCom60117.2023.00195](https://doi.org/10.1109/TrustCom60117.2023.00195).

Khan, Abdul Qadir, Saad El Jaouhari, et al. (2024). "Knowledge-based anomaly detection: Survey, challenges, and future directions". In: *Engineering Applications of Artificial Intelligence* 136, p. 108996. ISSN: 0952-1976. DOI: <https://doi.org/10.1016/j.engappai.2024.108996>.

Tamani, Nouredine et al. (2024). "Improving ML/DL Solutions for Anomaly Detection in IoT Environments". In: *Advanced Information Networking and Applications*. Ed. by Leonard Barolli. Cham: Springer Nature Switzerland, pp. 193–206. ISBN: 978-3-031-57942-4.

Khan, Abdul Qadir et al. (2026). "Parallelized derivation algorithm for anomaly detection in internet of things environments". In: *Expert Systems with Applications* 296, p. 128958. ISSN: 0957-4174. DOI: <https://doi.org/10.1016/j.eswa.2025.128958>. URL: <https://www.sciencedirect.com/science/article/pii/S0957417425025758>.

PROJECTS

Security testing of the Bluetooth protocol

Université Côte d'Azur

- Analyzed Bluetooth low-energy devices for vulnerabilities and conducted sniffing attacks using Ubertooth.

Design of MIMO antenna for UWB Applications

Hazara University

- For my final year Bachelor's project, I designed a MIMO antenna for ultra-wideband using the HFSS tool.

VOLUNTEERING

Student Volunteer

8th IEEE Cyber Security in Networking Conference (CSNET)

Dec 2024

Paris, France

President

IEEE Isep Student Branch

Jul 2023 - Nov 2024

Paris, France

Secretary

IEEE Isep Student Branch

Mar 2022 - Jun 2023

Paris, France

AWARDS AND ACHIEVEMENTS

EDITE Doctoral Fund

Sorbonne University, Paris, France

ERASMUS+ Mobility Program

Université Côte d'Azur, Nice, France

Gold Medal

Hazara University, Manshera, Pakistan