

Abdul Qadir Khan

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WORK EXPERIENCE

Post Doctoral Researcher <i>LRE, EPITA</i>	Sept 2025 - present
<ul style="list-style-type: none">• 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 <i>Sorbonne Université / Institut Supérieur d'Electronique de Paris (Isep)</i>	Oct 2021 - Dec 2024
<ul style="list-style-type: none">• 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 <i>Institut Supérieur d'Electronique de Paris (Isep)</i>	Nov 2022 - Jun 2024
<ul style="list-style-type: none">• CT.1105 - Robotics (64h)• CS.1108 - Computer Science (56h)	
Master 2 Internship <i>Inria, Sophia Antipolis, France</i>	Apr 2021 - Sept 2021
<ul style="list-style-type: none">• 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 <i>Inria, Sophia Antipolis, France</i>	May 2020 - Dec 2020
<ul style="list-style-type: none">• 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 <i>Ph.D. in Computer Science</i>	Paris, France 2021 - 2024
<ul style="list-style-type: none">• 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 <i>Masters in Computer Engineering</i>	Nice, France 2020 - 2021
<ul style="list-style-type: none">• Main Courses: Security and Privacy, Performance Evaluation of Networks, Distributed Systems, Machine Learning, Internet of Things	
Université Côte d'Azur <i>ERASMUS+ Mobility Programme</i>	Nice, France 2019 - 2020
<ul style="list-style-type: none">• 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

Dec 2024

8th IEEE Cyber Security in Networking Conference (CSNET)

Paris, France

President

Jul 2023 - Nov 2024

IEEE Isep Student Branch

Paris, France

Secretary

Mar 2022 - Jun 2023

IEEE Isep Student Branch

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