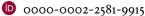
Ruslan Bondaruc, Ph.D. Candidate

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https://ruslanbondaruc.github.io/



Profile

Ph.D. Candidate in Computer Science at Università degli Studi di Milano, specializing in Cloud and Edge Computing. Researched on secure service deployment across Cloud-Edge-5G infrastructures, with a focus on security, privacy, and legislative aspects of computer systems. Enthusiastic about pursuing further research at the intersection of advanced distributed systems and security.

Education

10/2022 - 09/2025

PhD Candidate in Computer Science, Università degli Studi di Milano.

Research Project: A Security-Driven Service Composition for Data-Intensive Pipelines in Cloud-Edge Continuum.

10/2020 - 09/2022

M.Sc. in Informatics Security, Università degli Studi di Milano.
Thesis title: An Advanced Security Assurance System for Edge/IoT Environments.
Grade: 110/110 cum Laude.

10/2017 - 12/2020

B.Sc. in Computer Systems and Networks Security, Università degli Studi di Milano.

Thesis title: *Studio e Sviluppo di un'Architettura 5G per Sistemi di Intrusion Detection*. Grade: 110/110 cum Laude.

Experience

01/2025 - 07/2025

- Industrial collaboration at Leonardo S.p.A., Università degli Studi di Milano & Leonardo S.p.A.
 - Designed a reinforcement learning–based approach for service placement in the Cloud–Edge Continuum, optimizing deployments based on security properties.
 - Defined a placement model capable of resource optimization while ensuring compliance with security requirements.

09/2024 - 08/2025

- UAE Rain Enhancement Project (UAEREP), Università degli Studi di Milano & Khalifa University.
 - Containerized and orchestrated atmospheric data analysis and rain forecasting workflows for HPC environments.
 - Deployed and optimized containerized workflows on high-performance computing (HPC) infrastructure.

10/2022 - 08/2025

- PNRR Multilayered Urban Sustainability Action (MUSA) project, Università degli Studi di Milano.
 - Designed service deployment strategies in the Cloud-to-5G Edge Continuum, integrating AWS and private cloud infrastructures.
 - Engineered end-to-end service workflows using AWS Step Functions and EKS.
 - Developed a deployment framework compatible with heterogeneous platforms.

10/2022 - 09/2025

- PhD in Computer Science, Università degli Studi di Milano.
 - Conducted original research combining literature analysis, experimentation, and prototyping.
 - Supervised and mentored Bachelor's and Master's thesis students, providing guidance from project definition through final defense.
 - Delivered tutoring support for the "Service-Oriented Architectures" course, assisting students and evaluating them in final exams.

Experience (continued)

03/2021 - 09/2022

- Research scholarship "Orio Carlini" Consortium GARR, Università degli Studi di Milano.
 - Developed an IoT Security Assurance approach through Edge/5G Infrastructure.

Research Publications

Conference Proceedings

- M. Anisetti, F. Berto, and **R. Bondaruc**, "Qos-aware Deployment of Service Compositions in 5G-empowered Edge-Cloud Continuum," in 2023 IEEE CLOUD, Chicago, USA, 2023.
- **R. Bondaruc**, D. Cazzetta, and M. Anisetti, "Advanced IoT Edge Architecture for Smart City," in 2023 17th International Conference on Signal-Image Technology & Internet-Based Systems (SITIS), Nov. 2023.
- N. Bena, **R. Bondaruc**, and A. Polimeno, "Security Assurance in Modern IoT Systems," in *IEEE VTC* 2022-Spring, Helsinki, FIN, Jun. 2022.
- M. Anisetti, C. A. Ardagna, N. Bena, and **R. Bondaruc**, "Towards an Assurance Framework for Edge and IoT Systems," in *2021 IEEE EDGE*, Guangzhou, CN, Dec. 2021.

Books and Chapters

M. Anisetti, C. A. Ardagna, M. Banzi, et al., "MUSA: A Platform for Data-Intensive Services in Edge-Cloud Continuum," in Advanced Information Networking and Applications, Cham: Springer Nature Switzerland, 2024.

Hard Skills

Coding Python, Go, Java, C, Bash

Containerization and Orchestration Docker, Docker Compose, Kubernetes, AWS EKS & Step Func-

tions.

Cloud Computing AWS EC2, Lambda, S3.

Versioning and CI/CD Git, GitLab, GitHub, GitLab CI/CD, GitHub Actions.

Batch Systems PBS.

Misc. Academic research, teaching, supervisioning, Lagrange and publishing.

Soft Skills

Languages **Italian**: Mother tongue

English: B2 French: A2

Communication Good written and verbal communication skills;

Good presentation and interpersonal abilities, gained during the uni-

versity and research career.

Organization and management Proclivity to project management and planning, consolidated during

several team jobs carried out during the university career;

Ability to work both in groups and independently.