

PERSONAL INFORMATION

Lorenzo Ariemma



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EDUCATION AND TRAINING

02/11/2018–31/01/2022	PhD in Computer Science and Automation Dept. Of Engineering, Università degli Studi Roma Tre, Rome (Italy) Thesis title: "Signals from Long-lasting Interdomain Routing Events"	EQF level 8
09/2015–20/03/2018	Master's Degree in Computer Science and Engineering Dept. Of Engineering, Roma Tre University, Rome (Italy) Final score 110/110 cum laude	EQF level 7
09/2012–07/2015	Bachelor's Degree in Computer Science and Engineering Dept. Of Engineering, Roma Tre University, Rome (Italy) Final score 110/110	EQF level 6
09/2007–07/2012	High School Diploma Liceo Scientifico Statale Evangelista Torricelli, Rome (Italy) Final score 78/100	EQF level 4

WORK EXPERIENCE

05/2024-Present	Freelance IT Consultant Rome (Italy)	
04/2022–03/2024	Postdoctoral Researcher Dept. Of Engineering, Roma Tre University, Rome (Italy) LazioChain: blockchain and decentralization for the Agrifood – project POR FESR LAZIO 2014 – 2020 - Project Code POR A0375E0116. Title: "Applicazioni decentralizzate per le filiere produttive".	
07/2018–10/2018	Trainee Plug-in Srl, Origgio, VA (Italy) Research project on Anomalies of Interdomain Routing	
06/2018–06/2018	Research Collaborator Università degli Studi Roma Tre, Rome (Italy) Analysis of Anomalies of Interdomain Routing	
03/2015–07/2015	Computer programmer Technip Italy S.p.A., Rome (Italy) Setting up AirWatch (by VMware) platform for MDM of company's devices	

DIDACTIC EXPERIENCE

Teaching

- Professor during the AY 2025/2026 of the “Reti di Calcolatori” course for the Polizia di Stato at Roma Tre University.
- Professor during the AY 2025/2026 for the course “Python and R for Data Science”, Dept. of Data Science and Management, LUISS University.
- Cyberchallenge.it course teacher during years 2023, 2024, 2025, and 2026 for the Roma Tre University venue.
- Three lessons at the Cyber Security course at Università Campus Bio Medico, on the following subjects: Command and code injection, cross-site scripting, cross-site request forgery.

Teaching Assistant

- Teacher assistant during the AY 2025/2026 for the course “Data Privacy and Security”, Dept. of Data Science and Management, LUISS University.
- Teacher assistant during the AY 2025/2026 for the course “Data Science in Action”, Dept. of Data Science and Management, LUISS University.
- Teacher assistant during the AY 2025/2026 for the course “Internet and Data Centers”, Dept. of Engineering, Roma Tre University.
- Teacher assistant during the AY 2024/2025 for the course “Python and R for Data Science”, Dept. of Data Science and Management, LUISS University.
- Teacher assistant during the AY 2024/2025 for the course “Data Science in Action”, Dept. of Data Science and Management, LUISS University.
- Teacher assistant during the AY 2024/2025 for the course “Internet and Data Centers”, Dept. of Engineering, Roma Tre University.
- Teacher assistant during the AY 2023/2024 for the course “Internet and Data Centers”, Dept. of Engineering, Roma Tre University.
- Teacher assistant during the AY 2018/2019 for the course “Infrastrutture delle Reti di Calcolatori”, Dept. of Engineering, Roma Tre University.

Subject Expert Courses

- AY 2022/2023 – Internet and Data Centers, Reti di Calcolatori, Visualizzazione delle Informazioni.
- AY 2021/2022 – Internet and Data Centers, Reti di Calcolatori, Visualizzazione delle Informazioni.
- AY 2020/2021 – Infrastrutture delle Reti di Calcolatori, Reti di Calcolatori, Visualizzazione delle Informazioni.
- AY 2019/2020 – Infrastrutture delle Reti di Calcolatori, Visualizzazione delle Informazioni.

Co-supervised master thesis

- AY 2021/2022 – Andrea Marrocco, Susanna Caroppo, Samuele Quinzi, Alexandru Rotariu, and Alessandro Scardicchio.
- AY 2020/2021 – Alessandro Dell’Orco, and Marta Burocchi.
- AY 2019/2020 – Alex Cocciatelli, Simone Liotta, Tommaso Caiazzi, Lorenzo D’Abbieri, and Roberto Francazi.
- AY 2018/2019 – Federico Yusteenappar, Davide Soldani, and Mariano Scazzariello.

Co-supervised bachelor thesis

- AY 2021/2022 – Lucrezia Sorrentino, Long Zhou.
- AY 2020/2021 – Maurizio Brini.
- AY 2018/2019 – Andrea Vona.

Seminars

- I held the following seminars:
- Mar 2026 – Lesson on Cybersecurity during the II level master “Lo Stato Digitale” at Roma Tre University
 - Mar 2025 – Lesson on Cybersecurity during the II level master “Lo Stato Digitale” at Roma Tre University
 - Oct 2024 – Six lessons seminar on web security and hardening, during the “Cybersecurity” course, held by Prof. Maurizio Pizzonia at Roma Tre University.

- Oct 2023 – Six lessons seminar on web security and hardening, during the “Cybersecurity” course, held by Prof. Maurizio Pizzonia at Roma Tre University.
- 12-15-16-19-22/12/2022 – Five lessons seminar, held together with Ing. Tommaso Caiazzzi, on the Data Center architectures and networks during the “Internet and Data Centers” course, held by Prof. Giuseppe Di Battista at Roma Tre University.
- 10-12/10/2022 – Two lessons seminar on the basic concepts of Kathará, a computer network emulator during the “Internet and Data Centers” course, held by Prof. Giuseppe Di Battista at Roma Tre University.
- 23-24/05/2022 – Two lessons seminar, held together with Ing. Mariano Scazzariello and Ing. Tommaso Caiazzzi, on the basic concepts of Kathará, a computer network emulator, and Data Center networks. The seminar was held during the “Architetture dei Calcolatori and Cloud Computing” course, held by Prof. Roberto Riggio at Politecnico delle Marche.
- 8/11/2021 – Seminar on the basic usage of a switch and a packet analyser during the “Computer Network” course, held by Prof. Giuseppe Di Battista at Roma Tre University.
- 7-8/10/2021 – Two lessons seminar on the basic concepts of Kathará, a computer network emulator during the “Internet and Data Centers” course, held by Prof. Maurizio Patrignani at Roma Tre University.
- 9/10/2020 – Seminar on the basic concepts of Kathará, a computer network emulator during the “Infrastrutture delle Reti di Calcolatori” course, held by Prof. Giuseppe Di Battista at Roma Tre University.
- 4-6-7/11/2019 – Three lessons seminar on the basic concepts of Kathará, a computer network emulator during the “Infrastrutture delle Reti di Calcolatori” course, held by Prof. Maurizio Patrignani at Roma Tre University.

PUBLICATIONS

NOMS 2025	S. Quinzi, L. Ariemma, G. Lospoto, G. Di Battista. The Sound of Silence: Is the Collector Peer Operational at This Time?. 2025. IEEE Network Operations and Management Symposium.
International Journal of Parallel, Emergent and Distributed Systems	L. Ariemma, N. De Carlo, D. Pennino, M. Pizzonia, A. Vitaletti, M. Zecchini. Blockchain for the supply chain of the Italian craft beer sector: tracking and discount coupons. 2023. International Journal of Parallel, Emergent and Distributed Systems. Taylor & Francis.
TNT 2023	T. Caiazzzi, M. Scazzariello, S. Quinzi, L. Ariemma, M. Patrignani, G. Di Battista. Nesting Containers for Faithful Datacenters Emulation. 2023. IEEE/IFIP International Workshop on Technologies for Network Twins.
Computer Networks Journal	L. Ariemma, A. Dell’Orco, S. Liotta, M. Candela, G. Di Battista. Long-Lasting Sequences of BGP Updates. 2023. Computer Networks Journal, Elsevier.
DLT 2022	L. Ariemma, N. De Carlo, D. Pennino, M. Pizzonia, A. Vitaletti. Blockchain-Based Tracking of the Supply Chain of the Italian Craft Beer Sector. 2022. 4th Workshop on Distributed Ledger Technology.
PhD Thesis	L. Ariemma. Signals from Long-lasting Interdomain Routing Events. 2022. XXXIV Cycle. Dept. of Engineering. Roma Tre University.
NOMS 2022	T. Caiazzzi, M. Scazzariello, L. Alberro, L. Ariemma, A. Castro, E. Grampin, G. Di Battista. Sibyl: a Framework for Evaluating the Implementation of Routing Protocols in Fat-Trees. 2022. IEEE Network Operations and Management Symposium.
PAM 2021	L. Ariemma, S. Liotta, M. Candela, G. Di Battista. Long-Lasting Sequences of BGP Updates. 2021. Passive and Active Measurement conference.
IM 2021	T. Caiazzzi, M. Scazzariello, L. Ariemma. VFTGen: a Tool to Perform Experiments in Virtual Fat Tree Topologies. 2021. IFIP/IEEE International Symposium on Integrated Network Management.
IM 2021 (Best Demo Paper Award)	L. Ariemma, M. Scazzariello, T. Caiazzzi. MRT#: a Fast Multi-Threaded MRT Parser. 2021. IFIP/IEEE International Symposium on Integrated Network Management.
Future Internet Journal	M. Scazzariello, L. Ariemma, G. Di Battista, M. Patrignani. Megalos: A Scalable Architecture for the Virtualization of Large Network Scenarios. 2021. Special Issue on Information Processing and Management for Large and Complex Networks
NOMS 2020	M. Scazzariello, L. Ariemma, G. Di Battista, M. Patrignani. Megalos: A Scalable Architecture for the Virtualization of Network Scenarios. 2020. IEEE Network Operations and Management Symposium.
NOMS 2020 (Best Demo Paper Award)	M. Scazzariello, L. Ariemma, T. Caiazzzi. Kathará: A Lightweight Network Emulation System. 2020. IEEE Network Operations and Management Symposium.
WebDB 2018	M. Cannaviccio, L. Ariemma, D. Barbosa and P. Merialdo. Leveraging Wikipedia Table Schemas for Knowledge Graph Augmentation. 2018. International Workshop on Web and Databases.

TECHNICAL SKILLS

Tools and Libraries

.NET, .NET Core, ASP.NET Core, Docker, Kubernetes, Node.js, AngularJS, Arduino IDE, jQuery, Hadoop MapReduce, Apache Spark, MongoDB, Redis, Postgres, MySQL, Android, Xamarin, SQLite, Pentaho, JSP, Git, Adobe Photoshop

Projects

Last projects include:

- 2021 – [BGPie](#), a framework to find long-lasting instabilities of BGP updates
- 2021 – [MRT#](#), a fast multi-threaded MRT parser for BGP data
- 2019 – [Kathará](#), a network emulation tool using Docker and Kubernetes
- 2017 – *Mentor*, a tool to augment DBpedia via Wikipedia Tables (Master thesis)
- 2017 – *Crowd Lector*, a Web tool to get evaluation using crowd sourcing
- 2016 – *GreenBee*, WebInterface and REST API for a Smart Social Urban Garden

Full portfolio on [GitHub](#), [GitLab](#) and [LinkedIn](#)

Programming Languages

C, C#, Java, JavaScript, Python, PHP, Shell and Batch scripting

Other skills

BGP Professional Badge, from: Namex, available [here](#)

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
First Certificate in English, Level B2, 2011 Preliminary English Test, Level B1, Pass with Merit, 2010					
Spanish	A2	A2	A2	A2	A2

Driving licence

A, B, Boat license both sailing and motor within 12 miles

ORGANIZATIONS

01/2025 – Present

President and founder of the Kathara Development Association. A volunteer organization dedicated to the development of Kathará.

12/2017 – 12/2018

Vicepresident of MUG - Microcontrollers User Group
The purpose M.U.G. Roma Tre is to develop a community of individuals who cooperate to enhance their skills on the use of programmable microcontrollers.

01/2017–12/2017

Member of MUG - Microcontrollers User Group

05/2014

Founder of GameLab @ Roma3
The aim of the GameLab is to spread knowledge about game development to members of any level of experience, by offering themed seminars and direct exchange of knowledge in co-working spaces.