

PERSONAL INFORMATION

**Federica Maria Francesca Paci**

📍 Department of Computer Science, University of Verona, Strada Le Grazie 15,
37134, Verona

☎ +39 346 9514450 📠 +39 045 802 7909

✉ federicamariafrancesca.paci@univr.it

🔗 [fmfpaci.github.io](https://github.com/fmfpaci)

📅 **Date of birth** 29 November 1978 | 🇮🇹 **Nationality** Italian

RESEARCH INTERESTS

Online privacy, cyber risk assessment, vulnerability detection

h-index: 21 (Scopus), 31 (Google Scholar)

Citazioni: 2,067 (Scopus), 3586 (Google Scholar)

WORK EXPERIENCE

December 2018 – Present

Associate Professor

Department of Computer Science, University of Verona
Strada Le Grazie, 15, 37134, Verona, Italy

February 2015 – December 2018

Lecturer in Cyber Security

Department of Electronics and Computer Science, University of Southampton, Southampton, UK

March 2012 – January 2015

Post Doctoral Research Fellow

Department of Information Engineering and Computer Science, University of Trento, Trento, Italy

Project: NESSOS - Network of Excellence on Engineering Secure Future Internet Software Services and Systems

March 2009 – March 2012

Post Doctoral Research Fellow

Department of Information Engineering and Computer Science, University of Trento, Trento, Italy

Project: Secure Change - Security Engineering for lifelong Evolvable Systems

February 2008 – March 2009

Post Doctoral Research Fellow

Department of Computer Science, Purdue University, West Lafayette, Indiana, USA

Project: The Design and Use of Digital Identities, NSF and I3P

EDUCATION AND TRAINING

February 2005 – February 2008

P.h.D. in Information Technology

DICO, University of Milan, Italy

Thesis Title: Access Control in Service Oriented Architectures

October 1998 – February 2004

Laurea degree with honors in Computer Science (5 years)

DICO, University of Milan, Italy

Graduation mark: 110/110 cum laude

Thesis title: A system for selectively encrypting and signing XML documents

FUNDED RESEARCH PROJECTS

- October 2024 – January 2026 **Securing Decentralized Finance and Remote Healthcare Systems**
Ruolo: Coordinator.
Funder: MUR.
Budget: 955.072,75 euro
- October 2024 – October 2025 **VULCAN - Uno Strumento per Analisi di Vulnerabilità nel Codice Sorgente con Large Language Models**
Ruolo: PI.
Funder: ACN.
Budget: 93.000 euro
- September 2021 – September 2023 **Osservazione dei processi lavorativi, con garanzie oggettive di tutela della Privacy, per la prevenzione di Errori e situazioni di Rischio in maniera Automatica ai tempi di Industria 4.0 (OPERA 4.0)**
Role: Participant.
Funder: Fondazione Cariverona.
- November 2015 – February 2017 **Enhancing Campus Cyber Security Through Constructivist Student Learning**
Role: PI.
Funder: Higher Education Academy Development Funds Grants.
Budget: 53361.89 pounds
- January 2015 – March 2015 **Setting up a Cyber Security Education LAB at Southampton**
Role: PI.
Funder: GCHQ Small Grants.
Budget: 25.142 pounds
- September 2013 – March 2016 **Empirical Framework for Security Design and Economic Trade-Off (EM-FASE)**
Role: PI.
Funder: Eurocontrol Call for Tender.
Budget: 25959.68 pounds

QUALIFICATIONS

- 17 Dec 2023 **09/H1 - Italian National Scientific Qualification as Full Professor in Information Processing Systems**
- May 2016 **Fellow of Higher Education Academy**
- 29 Jan 2014 **01/B1 - Italian National Scientific Qualification as Associate Professor in Informatics**
- 3 Dec 2013 **09/H1 - Italian National Scientific Qualification as Associate Professor in Information Processing Systems**

MEMBERSHIPS

- Since 2012 Member of member of the IFIP WG 11.14 Working Group on Secure Engineering

INSTITUTIONAL RESPONSIBILITIES

- Since March 2024 Responsible for the Communication Strategy of the Department, University of Verona
Since 2023 Member of Computer Science Department Council for Assuring Teaching Quality

TEACHING EXPERIENCE

- 2020–Present **Data Security and Privacy**
MSc in Data Science, University of Verona
- 2020–Present **Cyber Security and Data Protection**
MSc in Computer Science and Engineering, University of Verona
- 2019–Present **Malware**
MSc in Computer Science and Engineering, University of Verona
- 2019–2020 **Programming**
BSc in Bioinformatics, University of Verona
- 2017–2018 **COMP2216 - Principles of Cyber Security**
BSc in Computer Science, MEng in Computer Science with Cyber Security, University of Southampton
- 2015–2018 **COMP6224 - Foundations of Cyber Security**
MSc in Cyber Security, University of Southampton
- 2015–2018 **COMP6236 - Software Engineering and Cyber Security**
MSc in Cyber Security, University of Southampton
- 2015–2017 **COMP3217 - Secure Systems**
BSc in Computer Science, MSc in Cyber Security, University of Southampton
- 2011 **Security and Privacy**
Master in Technologies for e-Government, University of Trento

PHD STUDENTS SUPERVISION

- 2018 – 2022 Robert Thorburn. Privacy and Compliance in IoT applications. Co-supervised with: Prof. Vladimiro Sassone, University of Southampton
- 2017 – 2022 Stephen Hart. A Serious Game for Cyber Risk Management. Co-supervised with: Prof. Vladimiro Sassone, University of Southampton
- September 2017 – January 2019 Sandra Pointon. Privacy and Anonymity in Windows 10. Co-supervised with: Prof. Vladimiro Sassone, University of Southampton
- 2015 – 2020 Shorouq Alansari. A Decentralized Framework for Personalized Data Protection. Co-supervised with Prof. Vladimiro Sassone, University of Southampton
- 2015 – 2017 Fatmah Akeel. Secure Data Integration Systems. Co-supervised with Prof. Gary Wills, University of Southampton

EDITORIAL ACTIVITIES

- Since 2023 Associate Editor of Frontiers in Big Data. Section: Cyber Security and Privacy
Since 2020 Associate Editor of Frontiers in Computer Science. Section: Computer and Network Security

PUBLICATIONS

- Katsiaryna Labunets, Fabio Massacci, Federica Paci, Katja Tuma. A new, evidence-based, theory for knowledge reuse in security risk analysis. *Empirical Software Engineering* 28(4): 90 (2023). DOI:10.1007/s10664-023-10321-y
- Federica Paci, Jacopo Pizzoli, Nicola Zannone: A Comprehensive Study on Third-Party User Tracking in Mobile Applications. In *Proceedings of the 18th International Conference on Availability, Reliability and Security (ARES 2023)* 97:1-97:8. DOI:10.1145/3600160.3605079
- Anna Lisa Ferrara, Federica Paci, Chiara Ricciardi. Verifiable Hierarchical Key Assignment Scheme. In *Proceedings of IFIP WG 11.3 Conference on Data and Applications Security and Privacy (DBSec 24)*. DOI:10.1007/978-3-030-81242-321
- Stephen Hart, Andrea Margheri, Federica Paci, Vladimiro Sassone. Riskio: A Serious Game for Cyber Security Awareness and Education. *Computer Security*. 95: 101827 (2020). DOI:10.1016/j.cose.2020.101827
- Marco De Bona, Federica Paci. A real world study on employees' susceptibility to phishing attacks. In *Proceedings of the 18th International Conference on Availability, Reliability and Security (ARES 2020)*. 4:1-4:10 DOI:10.1145/3407023.3409179
- Federica Paci, Anna Squicciarini, and Nicola Zannone. Survey on Access Control for Community-Centered Collaborative Systems. *ACM Computing Survey*. 51, 1, Article 6, 38 pages, 2018. DOI:10.1145/3146025.
- Shorouq Alansari, Federica Paci, and Vladimiro Sassone. A distributed access control system for cloud federations. In *Proceedings of 37th IEEE International Conference on Distributed Computing (IEEE ICDCS)*, Atlanta, GA, 2017, pp. 2131–2136. DOI: 10.1109/ICDCS.2017.24.
- Kate Labunets, Fabio Massacci, Federica Paci, Sabrina Marczak, Flavio, Moreira de Oliveira. Model comprehension for security risk assessment: an empirical comparison of tabular vs. graphical representations. *Empirical Software Engineering*, 22, 6, pp.3017-3056, 2017. DOI:10.1007/s10664-017-9502-8.
- Fabio Massacci, Federica Paci, Le Minh Sang Tran. A Requirements Evolution Approach: Empirical Studies in the Air Traffic Management Domain. *Journal of Systems and Software*, 94, pp. 70-88, 2014. DOI:10.1016/j.jss.2013.11.1098.
- Katsyarina Labunets, Fabio Massacci, Federica Paci, Le Minh Sang Tran. An Experimental Comparison of Two Risk-Based Security Methods. In *Proceedings of 7th ACM / IEEE International Symposium on Empirical Software Engineering and Measurement (ESEM)*, Baltimore, MD, pp. 163-172, 2013. DOI: 10.1109/ESEM.2013.29

PERSONAL SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
[Common European Framework of Reference for Languages](https://www.cerl.eu/)

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV