

Emanuela Podda

Curriculum Vitae

Università degli Studi di Milano
Department of Computer Science
SPDP Lab ✉ emanuela.podda@unimi.it
<https://podda.di.unimi.it/>

Short Bio

Research Fellow at Security, Privacy and Data Protection Laboratory (SPDP Lab), Department of Computer Science - Università degli Studi di Milano. Research focus on challenges posed by the law to the engineering and computation of specific data processing operations, as well as the design of data governance models in line with applicable regulatory frameworks.

Ph.D. in Law, Science and Technology from the Alma Mater Studiorum Università di Bologna, in co-tutelle with the Université du Luxembourg, and Università degli Studi di Torino.

Appointments

2024- present **Area Editor**, *Data & Policy Journal*, Cambridge University Press

Academic Positions

2024 ongoing **Research Fellow - Postdoctoral Researcher in Data Protection Techniques and Regulations** - Security, Privacy, and Data Protection (SPDP) Research Group led by Prof. Pierangela Samarati at Università degli Studi di Milano - Department of Computer Science - SPDP Lab, Italy

Project: Security and Rights in the Cyberspace SERICS under the MUR NRRP funded by the EU - NextGenerationEU (No. PE00000014)

January 2024 **Visiting Fellow** at CRISES Research Group in Security and Privacy led by Prof. Josep Domingo Ferrer, Universitat Rovira i Virgili - Department of Computer Engineering and Mathematics, Tarragona, Spain

Project: *SoBigData++* European Union's Horizon 2020 research and innovation programme (No. 871042)

2023 – 2024 **Research Fellow - Postdoctoral Researcher in Information Systems Engineering** at Digital Financial Services and Cross-Organisational Digital Transformations (FINATRAX) Research Group led by Prof. Gilbert Fridgen, Université du Luxembourg - Interdisciplinary Centre for Security, Reliability and Trust (SnT), Luxembourg

Project: *Digital Identities for Luxembourg* funded by Luxembourg Ministry of Digitalisation, Luxembourg

2019 – 2023 **Marie Curie ITN Research Fellow - Doctoral Researcher Law, Science and Technology (Joint Doctorate)**, in Rights of Internet of Everything at the Alma Mater Studiorum Università di Bologna

Alma Mater Studiorum, Università di Bologna (Alma Mater Research Center for Human-Centered Artificial Intelligence - Alma AI), in co-tutelle with Università di Torino (Department of Law), Université du Luxembourg (Faculty of Law, Economics and Finance - FDEF)

Project: *Rights of the Internet of Everything*, funded under Excellent Science - Marie Skłodowska-Curie Actions, Grant agreement (No. 814177)

2014 **Research Assistant** Research Group led by Professor Trecia Wouldes, at the Faculty of Medical and Health Sciences, University of Auckland, New Zealand

Project: *IDEAL study*

Non-Academic Positions

2015 – 2019 **European Commission, Brussels, Belgium**

Directorate General Taxation and Customs Union, Directorate General Research (Research Executive Agency), Directorate General International Cooperation and Development

Blue Book Trainee, Interim Agent, Contract Agent. Horizontal tasks based on legal analysis, legal drafting, and legal support for internal and external services. Data analysis and data monitoring using specific software, drafting reports for management support

2013 – 2014 **Intercultural Experience Canada-Italy, Toronto, Canada**

Hansa Language School (Toronto), and Tutorino Italian School (Toronto)

English Language School (Attending) and Italian Language School (Tutoring)

2010 – 2013 **Trainee Lawyer, Italy**

Studio Legate Pisanu (Cagliari) and Studio Legale Cabiddu (Oristano)

Supporting clients on corporate and tax issues, interpreting and explaining complex legal principles using plain language, providing strategic and creative legal solutions, including options and risks, producing legal documents for Court and attending trials in Court (Pre-requisite for the State Examination for the Qualification to the Profession of Lawyer)

Education and Professional Qualifications

2019 – 2023 **PhD in Law, Science and Technology**

Alma Mater Studiorum, Università di Bologna (Prof. M.Palmirani), in co-tutelle with Università di Torino (Prof. M.Durante), Université du Luxembourg (Prof. M.D.Cole)

PhD Thesis: *Big Data Analysis Systems in IoE Environments for Managing Privacy and Data Protection: Pseudonymity, De-anonymization and the Right to Be Forgotten*

2013 **State Examination for the Qualification to the Profession of Lawyer**

Italy

2008 – 2010 **Master of Laws, Faculty of Law**

Università degli Studi di Cagliari, Italy
2005 – 2008 **Bachelor of Laws, Faculty of Law**
Università degli Studi di Cagliari, Italy

Papers, Book Chapters and Conference Proceedings

- 2025 **Law + Technology: Fine-Tuning a New Regulatory Approach to Anonymity and Anonymisation of Personal Data** (co-authored/submitted)
- 2025 **Anonymising Personal Data in the context of the Data Governance Act (DGA): a New Legal Guise for Anonymisation** (co-authored/submitted)
- 2024 **Data Sharing Agreements: Automating Fairness Test on Security, Privacy, and Data Protection Clauses** (co-authored/submitted)
- 2024 **The Impact of Privacy-Enhancing Technologies on Data Minimisation Compliance: the case of Digital Identity Wallets and Zero-Knowledge Proofs** (co-authored/submitted)
- 2024 **Reflections on Decentralization in Decentralized Financial Applications.** In: Fridgen, G., Guggenberger, T., Sedlmeir, J., Urbach, N. (eds) Decentralization Technologies. Financial Innovation and Technology. Springer, Cham (with Brennecke, M., Hartwich, E., Rieger, A.)
- 2024 **Data Governance and Neutral Intermediation: Legal Properties and Potential Semantic Constraints.** In: Jensen, M., Lauradoux, C., Rannenber, K. (eds) Privacy Technologies and Policy. APF 2024. Lecture Notes in Computer Science, vol 14831. Springer, Cham
- 2024 **Data Act**, in Encyclopedia of Cryptography, Security and Privacy, Springer, 2024
- 2024 **Data Governance Act**, in Encyclopedia of Cryptography, Security and Privacy, Springer, 2024
- 2024 **Anonymisation of Personal Data (Legal Perspective)**, in Encyclopedia of Cryptography, Security and Privacy, Springer, 2024
- 2024 **National Identifiers and Their Use in the Private Sector: Legal Concepts and Privacy Implications**, Preliminary legal-tech research undertaken as a member of the FINATRAX Research Group, aimed at setting the legal perimeter for a further project on Information Systems Engineering focused on the balance between Push Model and Pull Model for National Identifiers (funded by the Ministry Of Digitalisation - Luxembourg)
- 2023 **Public Sector Sustainable Energy Scheduler - A Blockchain and IoT Integrated System**, 15th International Conference on Applied Energy, ICAE 2023, Doha, [Contribution to conference proceedings], (with Lima Baima R., Abetlan Alvarez I., Pavic I.)
- 2022 **Anonimizzazione e Pseudonimizzazione di Sentenze Giudiziarie**, Informatica Giuridica, 37-64, in La Trasformazione Digitale della Giustizia nel Dialogo tra Discipline, in Diritto e Intelligenza Artificiale, di S. Sapienza, M. Palmirani - Giuffrè, 2023 [Book Chapter] (with Palmirani M.)

- 2021 **Anonymization Between Minimization and Erasure: The Perspectives of French and Italian Data Protection Authorities** in: Kd A., Francesconi E., Kotsis G., Tjoa A.M., Khalil I., Electronic Government and the Information Systems Perspective, EGOVIS 2021, Andrea Kii, Enrico Francesconi, Gabriele Kotsis, A Min Tjoa, Ismail Khalit, 2021, LNCS 12926, pp. 103 - 114 (Electronic Government and the Information Systems Perspective EGOVIS 2021, in International Conference on Electronic Government and the Information Systems Perspective 2021, Wien, Virtuat Event, September 27-30,2021) [Book Chapter and Contribution to conference proceedings] (with Vigna F.)
- 2021 **Inferring the Meaning of Non-Personal, Anonymised, and Anonymous Data** in V. Rodriguez-Doncet, M. Palmirani, M. Araszkiwicz, P. Casanovas, U. Pagallo U., G. Sartor, AI Approaches to the Complexity of Legal Systems XI-XII, Heidelberg, Springer, Cham, 2021, pp.269 - 282 (Lecture Notes in Artificial Intelligence) [Book Chapter] (with Palmirani M.)
- 2021 **Shedding Light on the Legal Approach to Aggregate Data under the GDPR and the FFDR** in UNECE Conference of European Statisticians Expert Meeting on Statistical Data Confidentiality, 1-3 December 2021, Poznan, Poland [Abstract]
- 2021 **Data Protection and Rule of Law: A Challenging Perspective**, International Conference TILTING Perspectives 2021: TILTING 2021 Regulating in Times of Crisis, Tilburg, May 2021, 19-21 [Abstract]

Summer Schools

- 2023 **Summer Academy For Global Privacy Law 2023**, From Data Access to Data Transformations: How to Govern Data in the Age of Analytics and AI, VUB Brussels, June 2023

Seminars, Talks and Teaching Activities

- 2024 **Governing Personal Data: a Cross-sectoral and Multi-jurisdictional Matter**, ANU-SMU Global Digital Economy Forum, Singapore Management University, Singapore (Talk)
- 2024 **Statistical Confidentiality: Legal Considerations for European Official Statistics**, Workshop on the Future of Anonymization of the US Decennial Census, Tarragona, Spain (Workshop Presentation)
- 2024 **Embedding EU Regulatory Frameworks in (e-Mediated) Data Transactions: A European Data Governance Model**, Singapore Management University (SMU), Computational Legal Studies Workshop (Workshop Presentation)
- 2024 **National Identification Numbers and Their Use in the Private Sector: a Study of the Legal Framework**, Luxembourg Ministry of Digitalisation, Luxembourg (Talk)
- 2024 **Interfacing Law with Computer Science: Managing Data in the Light of the Data Governance Act**, University of Luxembourg, Faculty of Law, Economics and Finance (FDEF) for Security, Trust and Reliability Research Centre, FDEF x SnT Lecture Series, Luxembourg (Lecture)

- 2024 **Law + Technology: Fine-Tuning a New Regulatory Approach to Personal Data Anonymisation** Universitat Rovira i Virgili - Department of Computer Engineering and Mathematics, Tarragona, Spain, (Seminar Presentation)
- 2022 **Legal Overview on Anonymisation and Pseudonymisation**, Faculty of Law and Administration of Jagiellonian University, Krakow, Poland, (Lecture)

Awards

- 2021 **Best PhD Project Award** - 7th International Conference on Information Systems Security and Privacy (DCISSP/ ICISSP) 2021
- 2020 **Best PhD Project Award** - 9th International Conference on Data Science, Technology and Applications (DCDATASOFT/ ICSOFT) 2020

Languages

Italian (Mother Tongue), English (Fluent), French (Intermediate), Spanish (Basic)