# SALVATORE SAPIENZA

# *Scientific and Academic Curriculum*

# Personal data

**First name**: Salvatore Sapienza

**Address**: Via del Borgo di San Pietro, 97 - 40126 Bologna

**E-mail**: salvatore.sapienza@unibo.it

# Research Topics

**Salvatore Sapienza** is a Type A (Junior) Fixed-Term Researcher at the Department of Legal Sciences of the University of Bologna. He holds the title of Doctor of Philosophy (Ph.D) in Law, Science and Technology, awarded jointly by the University of Bologna and the University of Luxembourg. After obtaining a single-cycle master's degree in law, he obtained the title of Master of Laws (LL.M) in Intellectual Property and Information Law at King's College London. He has collaborated with the Legal Design Lab of Stanford University and with private institutions. He has also been a Visiting Researcher at the Leuven Center for IT & IP Law (CiTiP) of the Katholieke Universiteit (KU) of Leuven. He is the author of numerous academic publications in the fields of Ethics of Artificial Intelligence, Data Governance, Data Ownership and other fields of Legal Informatics. His research interests include: the relationship between law, ethics, and new technologies; ethical-legal issues of Big Data and Artificial Intelligence; IT-legal perspectives applied to the agri-food sector; Privacy and Protection of Personal Data; Legal document management; Legal XML; Legal Ontologies.

Academic Positions

**From January 2022 to today.**Type A (Junior) Fixed-Term Researcher at the University of Bologna, Department of Legal Sciences, in Philosophy of Law (IUS/20) - PON Research and Innovation – Project Title: The legal and technical governance of Big Data and Artificial Intelligence in Agrifood: towards a green, sustainable, and innovative transition.

Educational and teaching activities

**AY 2023/2024**

**Holder**, at UNIBO - Department of Legal Sciences (Ravenna Campus), of the courses:

*Legal IT for the Territory and the Environment*(Module 2 (3 CFU); IUS/20) *Legal IT*(Module 2 (3 CFU); IUS/20);

**Holder**, at UNIBO - Department of Legal Sciences (Bologna Campus), of the course:

*Data Science for Lawyers*((Form 2); IUS/20)

**AY 2022/2023**

**Holder**, at UNIBO - Department of Legal Sciences (Ravenna Campus), of the courses:

*Legal IT for the Territory and the Environment*(Module 2 (3 CFU); IUS/20) *Legal IT*(Module 2 (3 CFU); IUS/20);

**Holder**, at UNIBO - Department of Legal Sciences (Bologna Campus), of the course:

*Data Science for Lawyers*((Form 2); IUS/20)

**AY 2021/2022**

**Holder**, at UNIBO - Department of Legal Sciences (Ravenna Campus), of the courses:

*Legal IT for the Territory and the Environment*(Module 2 (3 CFU) ); IUS/20) *Legal IT*(Module 2 (3 CFU) ); IUS/20);

**AY 2020/2021**

Academic Tutor for the subject “Legal Informatics” (IUS/20), University of Bologna, Department of Legal Sciences, Ravenna Campus

**AY 2018/2019**

Teaching assistant and member of the examination commission for the course "Data Protection Law II” of the Master in Space, Communication and Media Law, of the Faculty of Law, Economics and Finance (FDEF) of the University of Luxembourg.

**From the 2017/2018 academic year to today**

Expert in the subject for the “Legal IT” course(University of Bologna, Department of Legal Sciences)

**From the 2017/2018 academic year to today**

Teaching assistant and member of the examination commission for the courses: “Data Science for Lawyers”, “Legal Tech”, “Data Science for Legal Analytics”, “Legal Informatics” (University of Bologna, Department of Legal Sciences)

Publications

# Monographs

1. **Sapienza, S.** (2024): Decisioni Algoritmiche e Diritto. Giuffrè Francis Lefebvre, Milano. ISBN: 9788828864820
2. **Sapienza, S**. (2022) Big Data, Algorithms and Food Safety. A Legal and Ethical Approach to Data Ownership and Data Governance. Springer, Cham. ISBN: 9783031093661

# Editor

1. Palmirani M., **Sapienza S.** (ed.) (2022) La Trasformazione Digitale della Giustizia nel dialogo tra discipline: Diritto e Intelligenza Artificiale. Giuffrè, Milano. ISBN: 9788828849841

# Journal Articles

1. Sovrano, F., Palmirani, M., Sapienza, S., & Pistone, V. (2024). DiscoLQA: zero-shot discourse-based legal question answering on European Legislation. Artificial Intelligence and Law, 1-37.
2. **Sapienza, S.**(2023). The regulation of generative AI and the preventive role of standards and design. PARADOXA, 17(4), 109-123.
3. **Sapienza, S.**(2023). ChatGPT, data and personal identity: risks, balances, regulation. CONSTITUTIONAL OBSERVATORY, 5, 47-71.
4. Palmirani, M., Catizone, C., Venditti, G., & Sapienza, S. (2023). Multilevel Hate Speech Classification Based on Multilingual Case-Law. Frontiers in Artificial Intelligence and Applications, 317-322.
5. Sovrano, F., Sapienza, S., Palmirani, M., & Vitali, F. (2022). Metrics, Explainability and the European AI Act Proposal. J, 5(1), 126-138.
6. Corea, F., Fossa, F., Loreggia, A., Sapienza, S., (2022) A principle-based approach to AI: the case for European Union and Italy. AI & SOCIETY, 1-15.
7. Palmirani M., Sapienza S. (2021) Digital Mediation and new technological forms of discrimination, Politeia News
8. Palmirani M., Sapienza S. (2021) Big Data, Explanations and Knowability. Practical Reason, 2021(2), pp. 349-364
9. **Sapienza, S.,** Vedder, A. (2021). Principle-based recommendations for big data and machine learning in food safety: the P-SAFETY model. AI & SOCIETY, 1-16.
10. Quintarelli, S., Corea, F., Fossa, F., Loreggia, A., Sapienza, S. (2019) AI: ethical profiles An ethical perspective on artificial intelligence: principles, rights and recommendations. BioLaw Journal - Rivista di BioLaw, No 3 (2019)

# Conference Proceedings

1. **Sapienza, S,.**(2023). Hybrid AI Analysis of the Drug Micro-trafficking in Italy. In International Conference on Electronic Government and the Information Systems Perspective (pp. 103-117). Cham: Springer Nature Switzerland.
2. **Sapienza S.,**(2022) Smart Solutions in AgriTech: Research Trajectories in the Digital Transition, in: Electronic Government and the Information Systems Perspective, «Lecture Notes In Artificial Intelligence», 2022, 13429, pp. 150 - 162
3. Palmirani, M., Sovrano, F., Liga, D., Sapienza, S., & Vitali, F. (2021). Hybrid AI Framework for Legal Analysis of the EU Legislation Corrigenda. In Legal Knowledge and Information Systems (pp. 68-75). IOS Press.
4. Sovrano, F., Sapienza, S., Palmirani, M., & Vitali, F. (2021). A Survey on Methods and Metrics for the Assessment of Explainability under the Proposed AI Act. Legal Knowledge and Information Systems: JURIX 2021: The Thirty-fourth Annual Conference, Vilnius, Lithuania, 8-10 December 2021 (Vol. 346, p. 235 ). IOS Press.
5. **Sapienza, S**., (2021). Explanations in Risk Analysis: Responsibility, Trust and the Precautionary Principle. ICAIL XAILA workshop proceedings.
6. Sovrano, F., Palmirani, M., Distefano, B., Sapienza, S., Vitali, F. (2021). A dataset for evaluating legal question answering on private international law. In Proceedings of the Eighteenth International Conference on Artificial Intelligence and Law (pp. 230-234).
7. Palmirani, M., Bincoletto, G., Leone, V., Sapienza, S., Sovrano, F. (2020). Hybrid Refining Approach of PrOnto Ontology. In International Conference on Electronic Government and the Information Systems Perspective (pp. 3-17). Springer, Cham.
8. Palmirani M., Bincoletto G., Leone V., Sapienza S., Sovrano F. (2019) PrOnto Ontology Refinement Through Open Knowledge Extraction, in: Legal Knowledge and Information Systems. JURIX 2019. The Thirty-second Annual Conference, Amsterdam, IOS Press, «Frontiers In Artificial Intelligence And Applications», 2019, 322, pp. 205 - 210 (Jurix 2019, Madrid, 11/12/2019)
9. **Sapienza S.** (2019) Transparency and Openness in Food Safety: insights about new Data Confidentiality rules. 2019 Data for Policy Conference Proceedings
10. **Sapienza S.,** Palmirani M. (2018) Emerging Data Governance Issues in Big Data Applications for Food Safety. In: K A., Francesconi E. (eds) Electronic Government and the Information Systems Perspective. EGOVIS 2018. Lecture Notes in Computer Science, vol 11032. Springer, Cham.
11. **Sapienza, S.** (2018) Privacy, Security and Trust in Collaborative Models for Food Consumption Data Gathering. ECDG 2018 - The Proceedings of the 18th European Conference on Digital Government

**organization or participation as a speaker at scientific conferences**

**April 11, 2024.** Speaker (invited) at the final report of the Fast-Lisa project: Fighting hAte Speech Through a Legal, ICT and Sociolinguistic approach – Brussels, Belgium

**December 18, 2023.** Speaker (call for papers) at the 36th International Conference on Legal Knowledge and Information Systems (JURIX 2023) for the presentation of the article "Multilevel Hate Speech Classification Based on Multilingual Case-Law" – Maastricht University, Maastricht, Netherlands

**December 12, 2023.** Organizer and speaker of the seminar "Workshop on Large Language Models in the context of Legal Information Processing" organized as part of the Jean Monnet module LEDSXAIL - Legal Design and Data Science For Explicable AI in Legal Domain

**10 July 2023.** Invited Speakerat the webinar "Justice and digital transformation" promoted by the Tuscany Region as part of the seminar cycle "#Internet&Law the future in the library"

**April 3, 2023.** Invited Speakerat the seminar, as part of the "Law of the digital age" course, on the topic "IT and legal profiles of artificial intelligence: the power of data" - University of Trento.

**March 31, 2023.** Invited Speakerat the CiTIP Lunch Meeting, KU Leuven. Presentation on theme: “Exploring the Role of Legal Informatics in the Digital Transformation of the Italian Judicial System” - University of Leuven, Belgium

**November 14, 2022.** Invited Speakerat the meeting “Innovative, Simple, Digital: Justice Connected to Citizens”, organized by the CRUI Foundation, with the patronage of the Emilia Romagna Region, as part of the ER4JUSTICE - Bologna project

**October 28, 2022.** Invited Speakerat the CiTIP Lunch Meeting, KU Leuven. Presentation on theme: “Big Data, Algorithms, Food Safety” - University of Leuven, Belgium

**26 September 2022.** Member of the Program Committee of the 23rd International Conference on Knowledge Engineering and Knowledge Management (KM4LAW) - University of Bolzano

**24 September 2022**. Speaker (contribution) at the XXXII Congress of the Italian Society of Philosophy of Law. Workshop: “Technology, infosphere and widespread powers” ​​– University of Palermo

**16-17 September 2022.** Member of the Organizing Committee of the conference “Il Futuro Dello Stato”, organized by the International Society of Public Law (ICON-S), Italian Chapter. Moderator of the panel “State Powers and New Technologies” – University of Bologna

**7-8 July 2022**. Co-organizer of the conference “LAST-JD-RIoE - Annual Conference 2022”. Speaker (invited) of the panel “The Internet of Things” – University of Leuven, Belgium

**August 23, 2022.** Speaker (contribution) 11th International Conference on Electronic Government and the Information Systems Perspective (EGOVIS 2022) – University of Vienna, Austria

**April 6, 2022**. Co-organizer of the seminar “Ethics of Artificial Intelligence - Developments, opportunities, challenges” with prof. Luciano Floridi – University of Bologna – CIRSFID-ALMA-AI

**December 8, 2021**. Invited Speaker at the Doctoral Consortium of the 34th International Conference on Legal Knowledge and Information Systems (JURIX 2021). – Vilnius University, Lithuania

**July 10, 2021**. Co-organizer of the conference “eIDAS Regulation and European Strategies of Distributed Electronic Ledgers” – University of Bologna – CIRSFID-ALMA-AI

**June 8, 2021.**Co-organizer of the seminar “AI and Regulation” – University of Bologna – CIRSFID-ALMA-AI

**April 28, 2021.**Co-organizer of the seminar “The Morphology of Power and Digital Sovereignty” with prof. Luciano Floridi – University of Bologna – CIRSFID-ALMA-AI

**June 21, 2021**. Speaker (contribution) of the EXplainable & Responsible AI in Law Workshop held during the 18th International Conference on Artificial Intelligence and Law (ICAIL 2021) – University of Sao Paulo, Brazil

**May 26, 2021**. Co-organizer of the seminar “Internet Service Provider and Liability in the light of the Digital Service Act and of the Digital Market Act” – University of Bologna – CIRSFID-ALMA-AI

**December 14, 2020**. Co-organizer of the seminar “Immaterial Capitalism” with prof. Stefano Quintarelli – University of Bologna – CIRSFID-ALMA-AI

**October 12, 2020**. Co-organizer of the seminar "Artificial intelligence and law. Why AI technologies are a great opportunity for law" with prof. Amedeo Santosuosso – University of Bologna – CIRSFID-ALMA-AI

**28 September 2020**. Co-organizer of the seminar “Artificial Intelligence: law, rights, ethics” – University of Bologna – CIRSFID-ALMA-AI

**15 September 2020**. Speaker (contribution) of the 9th International Conference on Electronic Government and the Information Systems Perspective (EGOVIS 2020) – University of Bratislava, Slovakia

**July 27, 2020**. Co-organizer of the conference “Contact Tracing & Tracking App: part II - Beyond Privacy” – University of Bologna – CIRSFID-ALMA-AI

**July 20, 2020.**Co-organizer of the seminar “Green and blue: naive ideas to improve politics” with prof. Luciano Floridi – University of Bologna – CIRSFID-ALMA-AI

**17 December 2019.**Speaker (contribution) of the 32nd International Conference on Legal Knowledge and Information Systems (JURIX 2019) – Polytechnic University of Madrid, Spain

**10 June 2019**. Speaker (contribution) at the 4th International Conference Data for Policy – ​​Digital Trust and Personal Data – University College of London, United Kingdom

**February 20, 2019**. Speaker (invited) of the Seminar “Trending Topics in Law, Science and Technology – An Overview of Recent Interdisciplinary Research Themes” – FDEF, University of Luxembourg, Luxembourg

**January 10, 2019**. Speaker (contribution) at the BigDat Winter School 2019 – University of Cambridge, United Kingdom

**25 October 2018**. Speaker (contribution) at the 18th European Conference on Digital Government (ECDG) – University of Santiago de Compostela, Spain

**5 September 2018**. Speaker (contribution) at the 7th International Conference on Electronic Government and the Information Systems Perspective (EGOVIS 2018) – University of Regensburg, Germany

**direction or participation in the activities of a research group characterized by collaborations at a national or international level**

**From September 2023 to April 2024.**Fast-Lisa Project: Fighting hAte Speech Through a Legal, ICT and Sociolinguistic approach.

**From September 2022.**Project “Legal Design and data science for Explicable AI in Legal Domain” (LeDS 4 XAIL), Jean Monnet Module (ERASMUS-JMO-2022-MODULE), as: teacher and tutor of the “Data Science 4 Lawyers” courses and the Summer School “Legal Design; member of the annual workshop “Data Science and Legal Design for Explicable AI” and co-author of the related conference proceedings; responsible for validating the results of experiments conducted as part of group work conducted by male and female students; responsible for the Evaluation and Quality Assurance Framework; supervisor of the website, MOODLE and e-learning platforms.

**From December 2020 to December 2021.**Member of the research unit at the CIRSFID-ALMA AI of the University of Bologna as part of the Research Project of National Interest (PRIN) LAILA (Legal Analytics for Italian Law), PRIN 2017 (Prot. 2017NCPZ22, CUP: J34119004040001) as a Research Fellow for the project “The use of Legal Analytics methods in the context of Italian law. Theoretical profiles and preliminary empirical evaluations"

**From July 2021 to today**. AI4Justice project, University of Bologna, as an IT-legal collaborator for research projects relating to the automated analysis of legal texts and predictive justice.

**From June 2018 to August 2018**; July 2019. Collaboration with the Legal Design Lab of Stanford University, as part of the MIREL project (MIning and Reasoning with Legal Texts) Marie Sklodowska-Curie grant agreement N° 690974, as a beneficiary of a mobility incentive.

**responsibility for scientific studies and research entrusted by qualified public or private institutions**

**From July 2021**. Project “LEOS - Study of Drafting legislation in the era of AI and digitisation”, funded by the European Commission, as a collaborator for research projects relating to the use of Artificial Intelligence systems for the automated analysis of legislative documents.

**April 2021**. United Nations Economic Commission for Europe - Advisory Group for Advanced Technologies in Trade and Logistics, as external advisor for the “Artificial Intelligence Demystified” report.

**From February 2021**. DARE project, financed by the Municipality of Ravenna, as an IT-legal scholar in the fields of personal data protection, privacy, intellectual property, data ethics.

**From January 2019 to November 2019**. Collaboration with Fondazione Leonardo - Civiltà delle Macchine, as co-author of the "Ethical and legal statute of artificial intelligence".

direction or participation in editorial committees of magazines, editorial series, encyclopedias and treatises of recognized prestige

**Member of the Editorial Committee** of “I-LEX. Journal of legal sciences, cognitive sciences and artificial intelligence" (ISSN 1825-1927)

**Peer reviewer** for the journal “Science and Engineering Ethics” (ISSN 1471-5546; 1353-3452)

**Peer reviewer** for the journal “BioLaw Journal - Rivista di BioDiritto” (ISSN: 2284-4503)

formal assignment of teaching or research roles (fellowship) at qualified foreign or supranational universities and research institutes

**September 2022 - March 2023.** Visiting Researcher at the Leuven Center for IT & IP Law (CiTiP) of the Katholieke Universiteit (KU) of Leuven

**November 2018 - July 2019**. University of Luxembourg, co-tutelle within the doctorate in Law, Science and Technology

achievement of prizes and recognition for scientific activity, including affiliation to academies of recognized prestige in the sector

**From September 2022.** Member of the Italian Society of Philosophy of Law (SIFD)

**From September 2021**. Member of the Italian Legal Informatics Society (SIIG)

Specific professional experiences characterized by research activities relating to the competition sector for which the application for qualification is submitted

**December 2020 – December 2021**. Post Doc Research Fellow at CIRSFID ALMA - AI Research Project of National Interest (PRIN) LAILA (Legal Analytics for Italian Law), PRIN 2017 (Prot. 2017NCPZ22, CUP: J34119004040001) as Research Fellow for the project " The use of Legal Analytics methods in the context of Italian law. Theoretical profiles and preliminary empirical evaluations".

**November 2017 – March 2021**. PhD student in Law, Science and Technology, at CIRSFID, in cotutelle with the University of Luxembourg. Supervisor: Prof. Monica Palmirani; Prof. Mark Cole

**Tutors** of the “Winter School Legal Design (LEDs)”, 2023 edition

**Tutors** of the “Summer School LEX - LegalXML Standards, Legal Analytics and AI” for the 2020, 2021, 2022, 2023 editions