

SALVATORE SAPIENZA, LL.M, PH.D

PERSONAL DATA

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BIOGRAPHY

Salvatore Sapienza is a Research Fellow at CIRSFID-ALMA AI and Adjunct Professor at the School of Law of the University of Bologna, Ravenna Campus. He holds a Ph.D in Law, Science and Technology from the University of Bologna and the University of Luxembourg, and a Master of Laws in Intellectual Property and Information Law from King's College London. He has collaborated with the Legal Design Lab at Stanford University.

He is the author of several academic publications in the field of AI & Ethics, Data Governance, Data Ownership, and Legal Informatics. His current research interests include: the interplay between law, ethics, and technology in food-related matters; ethical and legal issues of Big Data and Artificial Intelligence; Privacy and Data Protection; Legal documents management; Legal XML; Legal information retrieval; Legal analysis; Legal Ontologies.

His main research products include a principle-based and trust-based model for the governance of data for food safety purposes. Inspired by the ongoing research in AI ethics and fruitful academic discussions, the P-SAFETY model (Privacy, Security, Fairness, Explainability, Transparency) constitutes an integrated and innovative ethical framework for stakeholders involved in food safety, including food business operators and regulatory authorities. The model has been recently approved for publication in a highly ranked and well-reputed scientific journal. A monograph extensively discussing the P-SAFETY model is currently under review.

KEYWORDS: Big Data & AI ethics, Food Safety, Big Data Governance, Big Data Ownership, Trust

CURRENT POSITIONS

Since September 2021	ADJUNCT PROFESSOR at the University of Bologna, School of Law (Ravenna Campus) Informatica Giuridica per il Territorio e l'Ambiente (6 CFU, Module 2 (3 CFU)) Seminario Firme Digitali (3 CFU)
Since February 2021	TEACHER ASSISTANT AND EXAMINER for the course "Data Science for Legal Analytics"
Since December 2020	RESEARCH FELLOW at CIRSFID ALMA - AI LAILA (Legal Analytics for Italian Law)
Since January 2018	SUBJECT EXPERT (CULTORE DELLA MATERIA) AND EXAMINER Legal Informatics (A-C) - IUS/20

PREVIOUS POSITIONS

November 2018 - March 2021	PH.D CANDIDATE at the University of Luxembourg, FDEF (cotutelle). Supervisor: Prof. Mark David Cole
November 2017 - March 2021	PH.D CANDIDATE at the University of Bologna, CIRSIFID. Supervisor: Prof. Monica Palmirani.
March 2020 - September 2020	ACADEMIC TUTOR, University of Bologna, Department of Legal Studies - IUS/20 - Ravenna

EDUCATION

03/2021	PH.D in Law, Science and Technology University of Bologna <i>Grade:</i> Excellent <i>Thesis:</i> Ethical Perspectives on Big Data in Agrifood: Ownership and Governance for Safety
11/2017	MASTER OF LAWS, LL.M in Intellectual Property and Information Law King's College London <i>Grade:</i> Merit <i>Dissertation:</i> Big Data Governance: an Ethical Perspective on a forthcoming Legal Challenge
10/2017	SINGLE-CYCLE DEGREE in Law University of Bologna <i>Grade:</i> 110/110 with Honours <i>Thesis:</i> Big Data e Nuove Etiche del Digitale

PUBLICATIONS

Sapienza, S. (2021) Big Data, Algorithms and Food Safety. Currently under review by Law, Governance and Technology Series (Springer) [Monograph]

Palmirani M., Sovrano F., Sapienza S., Vitali F. (2021) Hybrid AI Framework for Legal Analysis of the EU Legislation Corrigenda, submitted at Jurix 2021 conference

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, submitted at Jurix 2021 conference

Palmirani M., Sapienza S. (2021) La Mediazione Digitale e nuove forme tecnologiche di discriminazione, Accepted for publication by Notizie di Politeia (ANVUR Class A Journal) [Scientific article]

Palmirani M., Sapienza S. (2021) Big Data, Explanations and Knowability. Ragion Pratica (ANVUR Class A Journal) Accepted for publication [Scientific Article]

Corea, F., Fossa, F., Loreggia, A., Sapienza, S., (2021) A Principle-based Approach to AI. Under review by AI & Society: Special Issue on 'AI for People'. [Scientific Article]

Sapienza, S., Vedder A., (2021) Principle-based recommendations for big data and machine learning in food safety: the P-SAFETY model. AI & Society, accepted for publication. [Scientific

Article]

Sapienza, S., (2021). Explanations in Risk Analysis: Responsibility, Trust and the Precautionary Principle. Forthcoming in ICAIL 2021 Proceedings [Contribution to conference proceedings]

Sovrano, F., Palmirani, M., Distefano, B., Sapienza, S., and Vitali, F., (2021). Legal Question Answering on Private International Law. Forthcoming in ICAIL 2021 Proceedings [Contribution to conference proceedings]

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. [Contribution to conference proceedings]

Quintarelli, S., Corea, F., Fossa, F., Loreggia, A., Sapienza, S. (2019) *AI: profili etici Una prospettiva etica sull'intelligenza artificiale: principi, diritti e raccomandazioni*. BioLaw Journal - Rivista di BioDiritto, No 3 (2019) (ANVUR Class A Journal) [Scientific Article]

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) [Contribution to conference proceedings]

Sapienza S. (2019) *Transparency and Openness in Food Safety: insights about new Data Confidentiality rules*. 2019 Data for Policy Conference Proceedings [Contribution to conference proceedings]

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.[Contribution to conference proceedings]

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 [Contribution to conference proceedings]

COLLABORATIONS

September 2021, Summer School LEX 2021 (tutoring)

August 2021 - ongoing, Science and Engineering Ethics (ANVUR Class A Journal) as peer reviewer.

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

July 2021 - ongoing, LEOS (Legislation Editing Open Software) Project - University of Bologna

July 2021 - ongoing, AI4Justice Project - University of Bologna

February 2021 - ongoing, DARE Project, Municipality of Ravenna

January 2021 - March 2021, Cittadinanza Digitale e Comunità Educante

September 2020, Summer School LEX 2020 (tutoring)

January - November 2019, Fondazione Leonardo - Civiltà delle Macchine

June - August 2018, Legal Design Lab - Stanford University under the MIREL project (MIning and Reasoning with Legal Texts) Marie Skłodowska-Curie grant agreement No 690974

Doctoral cover letters presented by prof. Luciano Floridi (University of Oxford) and prof. Kevin Madders (King's College London)

DIVULGATION

Algorithmic bias, filter bubble e echo chamber (2021) - Pandora Rivista (May 2021)

La governance dell'Intelligenza Artificiale: l'approccio dell'Unione Europea a confronto con USA e Cina (2021) - Agenda Treccani

Co-authorship of the book *"Intelligenza artificiale: Cos'è davvero, come funziona, che effetti avrà"* a cura di Stefano Quintarelli, prefazione di Piero Angela (Bollati Boringhieri, 2020)

Co-authorship of the *"Statuto Etico e Giuridico dell'Intelligenza Artificiale"* by Fondazione Leonardo (2019)

CO-HOSTED EVENTS WITHIN ALATERE

Regolamento eIDAS e Strategie europee dei Distributed Electronic Ledgers (10 July 2021)

AI e Regolazione (8 June 2021)

Prof. Luciano Floridi - The Morphology of Power and Digital Sovereignty (28 April 2021)

Stefano Quintarelli - Capitalismo Immateriale (14 December 2020)

Intelligenza Artificiale: il diritto, i diritti, l'etica (28 September 2020)

App di Contact Tracing & Tracking: parte II - Beyond Privacy (27 July 2020)

Luciano Floridi - Il verde e il blu: idee ingenue per migliorare la politica (20 July 2020)

SCHOLARSHIPS AND AWARDS

June 2019	MIREL - Scholarship for an exchange period at the University of Stanford, California.
November 2018	Marco Polo Award - University of Bologna - Scholarship for the exchange period in Luxembourg
June 2018	MIREL (MIning and Reasoning with Legal Texts) Marie Sklodowska-Curie grant agreement No 690974 - Scholarship for an exchange period at the University of Stanford, California.
June 2016	Scholarship granted by the University of Bologna to attend LL.M (Master of Laws) courses at King's College London.
May 2014	Merit Award - University of Bologna

SEMINARS, WORKSHOPS, WINTER SCHOOLS

"Intelligenza artificiale e stereotipi di genere" (03 July 2021) as panelist

ELSA e-nternational Conference (16 - 18 March 2020) as panel moderator

Enforcement Challenges in Multi-Level Regulatory Systems: Mapping the Landscapes (21-22 May 2019, FDEF UNILU)

Hate Speech and Fake News: Democracy and its Freedoms at Risk? (7 May 2019, FDEF UNILU)

Argumentation course I -Theoretical foundations. Professor Liao Beishui. CSCF of University of Luxembourg (28 March 2019, CS Department UNILU)

Revisiting the Basics of EU Data Protection Law: On the Material and Territorial Scope of the GDPR (26 February 2019, FDEF UNILU)

ECLAN Seminar 2019 (24 January 2019, FDEF UNILU)

Data protection: a multi-disciplinary dialogue on compliance and emerging issues (22 January 2019, FDEF UNILU)

BigDat 2019 Winter School (7 - 11 January 2019, University of Cambridge)

Bioethics and BioLaw (April/May 2018, CIRSFID, University of Bologna)

Introduction to Digital Forensics (in Italian) (February/May 2018, School of Law and CIRSFID, University of Bologna)

Blockchain technologies and cryptocurrencies (February/March 2018, DISI, University of Bologna)

Research Progress in Artificial Intelligence and Law: An Intellectual Survey with prof. Kevin Ashley (5 - 7 December 2017, CIRSFID, University of Bologna)

Philosophy of Law (November 2017 to January 2018, CIRSFID, University of Bologna)

How to Write and Academic Paper (November 2017, CIRSFID, University of Bologna)

MEMBERSHIPS

SIIG (Società Italiana Informatica Giuridica)

ALaTeRe (Advanced Legal Tech Reviews), ALMA-AI

Legal Philosophy discussion group, ALMA-AI

Legal Blockchain Lab, CIRSFID

Student coordinator at TELOS (Centre for Technology, Ethics and Society) - King's College London

Postgraduate Law Society - King's College London

LANGUAGE SKILLS

ENGLISH - C1 - Advanced (IELTS lev. 7)

FRENCH - A1 - Beginner

DIGITAL AND PROGRAMMING SKILLS

Applied programming skills: machine learning, data analysis, data visualisation with R, Python and Knime, data cleaning, database management and query;

Known programming languages: Python, R, HTML, Sparql, Prolog;

Frequently-used programming environment: Sublime Text, PyCharm, Knime, LIME, GATE, Yed & Graffoo;

Frequently-used standards: XML, Akoma Ntoso, JSON, SKOS;

Essential knowledge (gained at BigDat 2019 Winter School): Hadoop, Distributed Computing, High-performance Computing, Blockchain

Other competences: good command of operative systems (Windows, OSX, Linux); good command of remote conference/teaching systems (Microsoft Teams, ZOOM); Video editing; Social Media managing; LaTeX programming;

Last update: September 22, 2021