

Curriculum Vitae

Dr. Francesca Lagioia

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Short CV

Dr. Francesca Lagioia, is Senior Research Fellow at the European University Institute (EUI), Florence (Italy), where she is working on the CompuLaw ERC project and the Claudette project. She is Adjunct Professor in Legal Informatics and AI and Law and Internet Law and Society, at the University of Bologna, Department of Legal Studies. She has been Max Weber Postdoctoral Fellow (1st September 2017-until 31st August 2018) at the European University Institute (EUI), Florence (Italy). In March 2016, she earned her Ph.D. in Law Science and Technology from the University of Bologna. Her research interests include: artificial intelligence and law, computer law and internet law, in particular privacy and data protection law, consumer law; Artificial Intelligence and Democracy, algorithmic fairness and transparency and AI explainability, computable models of legal reasoning and knowledge, legal theory, law and automation in socio-technical systems, with a specific focus on normative and deliberative agents, and the liability issues arising in connection with the use of autonomous systems.

She has published widely on these topics and has worked in several national and European projects, while also speaking at national and international conferences.

1. Personal Information

Date of birth: 10/05/1985

Place of birth: Bari, Italy

Nationality: Italian

2. Addresses

Work (EUI) European University Institute

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3. Current Position

- 1st November 2019 – present Senior Research Fellow, European University Institute, Law Department, Florence
- 1st September 2019 – present Adjunct Professor, Department of Legal Studies, Alma Mater Studiorum, University of Bologna
- 1st September 2018 – present Scientific member of the Claudette I and Claudette II projects

4. Previous Positions

- 15th October 2018 – 31st October 2019 Postdoctoral Research Fellow at Cirsfid, Alma Mater Studiorum, University of Bologna
- 1st September 2018 – 31st October 2019 Part-time research associate at the European University Institute, Law Department, Florence
- 1st September 2017 – 31st August 2018 Max Weber Post-doctoral Fellow at the EUI
- March 2016 – March 2017 Research Assistant at the EUI

5. Research Interests and Activities

Francesca Lagioia's research interests lie at the intersection of Law and Computer science.

In particular, she is interested in (1) Legal Informatics and ICT law, especially artificial intelligence and law, normative agents and software agents, legal theory, computable models of legal reasoning and knowledge, machine learning methods applied to the legal domain and (2) Computer Law, in particular internet law, privacy and data protection, consumer law and e-commerce, AI accountability, fairness, discrimination and transparency, as well as civil and criminal liability in connection with AI.

Since the beginning of her PhD, Francesca Lagioia has been working on Artificial Intelligence and Law and ICT Law. In particular, her research addressed a whole range of legal and ethical issues related to the autonomous AI agents in complex socio-technical systems, in multiple domains such as transport, and e-Health. Her research has also focused on citizens empowerment through the use of AI for detecting abuses related to consumer law and data protection law. In particular, she is involved in the Claudette (CLAUseDETEcTor) I and Claudette II projects, concerning the intersection of consumer law, data protection law (GDPR) and Artificial Intelligence to automate the legal

evaluation of terms of service and privacy policies. Currently she is also working on the CompuLaw (Computable Law) ERC project (grant agreement No 833647) aimed at making the law computable. The project is focused on two domains of application, i.e. autonomous vehicles and e-commerce. She is also a scientific contributor of the LAILA (Legal Analytics for Italian Law) national project (2017NCPZ22) aimed at developing a machine learning–based tool for predicting national courts decisions in civil and commercial matters.

6. Educational Background

8 – 10 July 2019	Summer School on Artificial Intelligence and Law European University Institute, Florence, Italy Main Topics: Knowledge representation and rule-based systems Modelling legal argument, case-based reasoning, evidential reasoning Machine learning and legal analytics
2013 – 2016	PhD in Law, Science and Technologies CIRSFID, Alma Mater Studiorum, University of Bologna, Italy. Curriculum: Legal Informatics and ICT Law). Thesis: “Criminal Liability and Artificial Intelligence Systems in e-health”
15 – 26 July 2013	Summer School on Law and Logic European University Institute, Florence, Italy Basic Course Topics: Logic, argumentation and Legal reasoning; Advanced Course Topics: Logic, argumentation and the law of evidence
March 2012	Master degree in Law, received from the Faculty of Law, Alma Mater Studiorum, University of Bologna, Italy. Thesis: Corporate Criminal Liability

7. Awards, Scholarships and Work Experience

Sept 2019 – present	Senior Research Fellow, European University Institute, Law Department, Florence
Sept 2019 – present	Adjunct Professor, Department of Legal Studies, Alma Mater Studiorum, University of Bologna
Oct 2018 – Oct 2019	Postdoctoral Research Fellow at Cirsfid, Alma Mater Studiorum, University of Bologna, Italy. Research Project: InterLex Project founded under the Horizon 2020 DG justice programme (Grant Agreement n. 800839).
Sep 2018 – Oct 2019	Part-time research associate, Department of Law, European University Institute, Florence, Italy. Research Projects: CLAUDETTE I and CLAUDETTE II

Sep 2017— Aug 2018	Max Weber Postdoctoral Fellow, Department of Law, European University Institute, Florence, Italy. Research Project: (CLARE) Criminal Liability and ARTificial Autonomous Entities
Jan 2013-present	Teaching Assistant, Faculty of Law,Alma Mater Studiorum, University of Bologna, ate the following Master’s courses: (1) Legal Informatics; (2) Advanced Legal Informatics; (3) IT Law and Legal Informatics
July 2017- Sep 2017	Collaboration on the project “Liability issues and regulation of AI: autonomous vehicles and digital agents”, at CIRSIFID, Faculty of Law, University of Bologna, Italy. Research and project work in the sector of Artificial Intelligence and Law.
Mar 2016-Mar 2017	Research Associate at the Law Department, European University Institute, Florence, Italy. Project Title: Lex Robotica — Legal Responsibilities and Artificial Autonomous Normative Agency. Research and project work in the sector of Artificial Intelligence and Law. Project funded by EUI Research Council for funding, European University Institute, Florence (Italy). PI: Prof. Giovanni Sartor
Mar 2016-Sep 2016	Research Assistant at the Law Department, European University Institute, Florence, Italy. Project Title: (ALIAS) Addressing the Liability Impact of Automation. Research and project work in the sector of aviation law and automation. Project funded by EUROCONTROL acting on behalf of the SESAR Joint Undertaking with funds from the EU. PI: Prof. Giovanni Sartor
Oct 2015-Dec 2015	Collaboration on the project (ALIAS II) Addressing Liability Impact of Automated Systems, Deep Blue Srl, Rome, Italy, Research and project work in the sector of aviation law. Project funded by EUROCONTROL acting on behalf of the SESAR Joint Undertaking with funds from the EU. PI: Deep Blue, Coordinator of EUI Unit: Prof. Giovanni Sartor
Sep 2015- Dec 2015	Collaboration on the project (ALIAS) Addressing Liability Impact of Automated Systems, Law Department, European University Institute, Florence, Italy. Research and project work in the sector of aviation law and automation. Project funded by EUROCONTROL acting on behalf of the SESAR Joint Undertaking with funds from the EU. PI: Deep Blue, Coordinator of EUI Unit: Prof. Giovanni Sartor
1-10 Apr 2015	(Collaboration on the project (ALIAS) Addressing Liability Impact of Automated Systems, Law Department, European University Institute, Florence, Italy. Research and project work in the sector of aviation law and automation. Project funded by EUROCONTROL acting on behalf of the SESAR Joint Undertaking with funds from the EU. PI: Deep Blue, Coordinator of EUI Unit: Prof. Giovanni Sartor

8. Research Projects

Jan 2020– present	Scientific contributor of the LAILA (Legal Analytics for Italian Law) PRIN project. Research project founded by the Italian Ministry of Education, University and Research. PI: Prof. Giovanni Sartor
Nov 2019– present	Scientific contributor of the CompuLaw (Computable Law) ERC project. Research project founded by the European Research Council. PI: Prof. Giovanni Sartor
Jan 2019- present	Scientific contributor of the CLAUDETTE II project (CLAUse DETecTER): An automated detector of unfair and unlawful clauses. Claudette meets the GDPR. Research project funded by EUI Research Council for funding, European University Institute, Florence (Italy). PI: Prof. Hans-W. Micklitz and Prof. Giovanni Sartor
Oct 2018- present	Scientific contributor of the InterLex project: Advisory and Training system for Internet-related Private International Law. Research project funded by the European Commission under the H2020 project. Cirsfid, Alma Mater Studiorum, University of Bologna. PI: Prof. Giovanni Sartor
Jan 2018- present	Scientific contributor of the CLAUDETTE I and II projects (CLAUse DETecTER): An automated detector of unfair and unlawful clauses in consumer contracts and privacy policies. Research project funded by EUI Research Council for funding, European University Institute, Florence (Italy). PI: Prof. Hans-W. Micklitz and Prof. Giovanni Sartor
Sep 2017-Aug 2018	Max Weber Postdoctoral Fellow at the Law Department of the European University Institute, Florence (Italy). Research project: (CLARE) Criminal Liability and ARTificial Autonomous Entities.
Jan 2016-Dec 2016	Scientific contributor of the project Lex Robotica – Legal Responsibilities and Artificial Autonomous Normative Agency. Research project funded by EUI Research Council for funding, European University Institute, Florence (Italy). Research and project work in the sector of Artificial Intelligence and Law. PI: Prof. Giovanni Sartor
Mar 2016-Sep 2016 Sep 2015-Dec 2015	Scientific contributor of the ALIAS II project (Addressing the Liability Impact of Automated Systems) [co-financed by EUROCONTROL on behalf of the SESAR Joint Undertaking under Work Package E], Alias Consortium, (2014-2016), European University Institute, Florence, Italy Legal research on liability in automated systems. PI: Deep Blue, Coordinator of EUI Unit: Prof. Giovanni Sartor

9. Organisation of Conferences

18-19 May 2018 Opportunities and Challenges in Regulating Robotics and Artificial Intelligence. A comparative approach. Villa Salviati, EUI. Conference organised by the EUI Law Department and Tech and Law, in collaboration with Google and Tech Policy Lab

10. Invited Talks in Conferences and Workshop

- 13 Feb 2020 Presentation title: Citizens empowerment through AI and roundtable on AI and legal-tech.
La Semaine de la Digitalisation 2019. Les défis juridiques de l'intelligence artificielle: Regards croisés entre santé et justice. Conference organised by the University of Lausanne. Faculté de droit, des sciences criminelles et d'administration publique.
- 23 May 2019 Presentation Title: Automation of personal data and consumer law enforcement using AI.
Workshop Seminar Series: Fairness, accountability, transparency and ethics (FATE), organised by Universitat Pompeu Fabra, Computer Science Department, Barcelona.
- 28 – 29 Jan 2019 Presentation Title: Machine Learning Powered Analysis of Consumer Contracts and Privacy Policies.
Workshop: E-NACT Workshop on the Techniques of Judicial Interactions, organized by the Centre for Judicial Cooperation, Robert Schuman Center for Advanced Studies, EUI, Florence.
- 15-16 Nov 2018 Presentation Title: Liability Issues and Autonomous Weapons
Conference: Beyond Killer Robots— Networked Artificial Intelligence Disrupting the Battlefield, organized by the Centre for International Law, Conflict and Crisis, The Faculty of Law, University of Copenhagen.
- 12-13 Nov 2018 Presentation Title: Next-gen privacy enhancing technologies
Conference: Nordic Privacy Arena 2018, organized by the Swedish Data Protection Forum, Stockholm.

11. Technical skills

- *Programming languages:* Swi-Prolog (basic).
- *Operating systems:* Windows, Linux, Mac OSX.
- *Other application software:* LaTeX, Microsoft Office, Open Office.

12. Teaching Experience

- Sep 2019-present Adjunct Professor in the Internet Law and Society Course, Law Department, Alma Mater Studiorum, University of Bologna, Italy.

- Sep 2019-present Adjunct Professor in the Legal Informatics and AI and Law Course, Law Department, Alma Mater Studiorum, University of Bologna, Italy.
- Feb 2020 Lecturer for the Winter School: Technological Innovation and Law, European Center for Law, Science and new Technologies (ECLT), University of Pavia.
Lecture on: Legal analytics: concepts and methods.
- Sep 2017-June 2018 Teacher Training Certificate (equivalent to 3 ECTS), Max Weber Postdoctoral Programme, European University Institute, Florence, Italy.
Main activities:
 - Course Design Workshop
 - Preparation for Microteaching and Teaching Practice Week: Seminar Teaching
 - Microteaching Workshop: Applying design principles and preparing for teaching exchange
 - Teaching Portfolio Workshop
 - Workshop: Developing Reflective Practice – Approaches to Classroom Observation
 - Workshop: Teaching in Culturally and Linguistically Diverse Classrooms
 - Teaching Practice Week
 - Examining Supervision Workshop
- Sep 2016 – present Lecturer at Master’s course in IT Law and Legal Informatics
Lectures and seminars on:
 - Liability and Automation
 - Legal issues of Autonomous Vehicles
 - Als under Criminal Law: a legal analysis and a regulatory perspective
- May 2018 Lecturer at Universitat Pompeu Fabra, Law Department, Barcelona
Bachelor’s course
Lectures on:
 - Legal issues and ethical dilemmas of Autonomous Vehicles
 - Als and liability issues
 - CLAUDETTE: An automated detector of unfair and unlawful clauses in consumer contracts and privacy policies
- July 2019 Lecturer for the Summer School: The Regulation of Robotics & AI in Europe: Legal, Ethical and Economic Implication, Scuola Superiore Sant’ Anna, Law Department, Pisa.
Lecture on: Machine learning, Consumer Contracts and Privacy Policies.

13. Languages

Mother tongue(s)	Italian				
Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

14. Publications

- Lagioia F., Sartor G., Artificial Intelligence in the Big Data era: risks and opportunities [book chapter] Edward Elgar Publishing (forthcoming)
- Lagioia, F., Responsabilità penale e automazione nell'e-health, Giappichelli, Torino.(2020) (forthcoming)
- Lippi, M., Contissa, G., Jablonowska, A., Lagioia, F., Micklitz, H. W., Palka, P., Sartor, G. and Torroni, P. (2020). The Force Awakens: Artificial Intelligence for Consumer Law. *Journal of Artificial Intelligence Research*, 67, 169-190.
- Lagioia F.; Ruggeri F.; Drazewski K.; Lippi M.; Micklitz H-W.; Torroni P.; Sartor G., Deep Learning for Detecting and Explaining Unfairness in Consumer Contracts, in: *Frontiers in Artificial Intelligence and Applications*, Amsterdam, IOS Press, 2019, 322.
- Calegari R., Contissa G., Lagioia F., Omicini A., Sartor G., Defeasible Systems in Legal Reasoning: A Comparative Assessment, in: *Legal Knowledge and Information Systems. JURIX 2019: The Thirty-second Annual Conference*, Amsterdam, IOS Press, «Frontiers in Artificial Intelligence and Application», Amsterdam, IOS Press, 2019, 322.
- Lagioia F., Sartor, G., Als under criminal law: A legal analysis and a regulatory perspective, *Philosophy & Technology*, Springer (2019).
- Liepina R., Contissa G., Drazewski K., Lagioia F., Lippi M., Micklitz H-W., Palka P., Sartor G., Torroni, P., GDPR Privacy Policies in CLAUDETTE: Challenges of Omission, Context and Multilingualism, In *In: Proceedings of the Third Workshop on Automated Semantic Analysis of Information in Legal Text (ASAIL 2019)*, June 21, 2019, Montreal, QC, Canada.
- Lippi, M., Contissa, G., Lagioia, F., Micklitz, H. W., Palka, P., Sartor, G., & Torroni, P. (2019). Consumer protection requires artificial intelligence. *Nature Machine Intelligence*, 1.
- Lippi, M., Palka, P., Contissa, G., Lagioia, F., Micklitz, H. W., Sartor, G., & Torroni, P. (2019). CLAUDETTE: an Automated Detector of Potentially Unfair Clauses in Online Terms of Service, «ARTIFICIAL INTELLIGENCE AND LAW», Springer
- Contissa, G., Docter, K., Lagioia, F., Lippi, M., Micklitz, H-W., Palka, P., Sartor, G., Torroni, P., “Automated Processing of Privacy Policies Under the EU General Data Protection Regulation” In *Legal Knowledge and Information Systems - JURIX 2018: The 31st International Conference on Legal Knowledge and Information Systems*, volume 302, pp 51 - 60
- Contissa, G., Docter, K., Lagioia, F., Lippi, M., Micklitz, H.-W., Palka, P., Sartor, G., Torroni, P., CLAUDETTE meets GDPR: Automating the Evaluation of Privacy Policies using Artificial Intelligence Study Report, Funded by Bureau Européen des Unions des Consommateurs (BEUC), 2018.
(preprint available at: (https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3208596))
- Contissa G., Lagioia F., Sartor G., Liability and automation: legal issues in autonomous cars, in *Network Industries Quarterly*, Vol. 20, No. 2 – Regulation for Artificial Intelligence and Robotics in Transportation, Logistics and Supply Chain Management, 2018
- Lippi, M., Palka, P., Contissa, G., Lagioia, F., Micklitz, H. W., Sartor, G., & Torroni, P., Towards Consumer-Empowering Artificial Intelligence, proceedings of JCAI-ECAI Conference 2018, Stockholm, Sweden, July 13-19, 2018, special track on the evolution of contours of AI.
- Lippi, M., Lagioia, F., Contissa, G. Sartor, G., Torroni, P., Claim Detection in Judgments of

the EU Court of Justice, in *AI Approaches to the Complexity of Legal Systems* (Springer), pp 513-527, ISSN: 0302-9743

- Lippi, M., Palka, P., Contissa, G., Lagioia, F., Micklitz, H. W., Panagis, Y., Sartor, G., Torroni, P. (2017). Automated Detection of Unfair Clauses in Online Consumer Contracts. *Legal Knowledge and Information Systems*, 145.
- Lippi, M.; Palka, P.; Contissa, G.; Lagioia, F.; Micklitz, H.-W.; Panagis, Y.; Sartor, G.; Torroni, P., Automated detection of unfair clauses in online consumer contracts, in: *Frontiers in Artificial Intelligence and Applications*; Nieuwe Hemweg 6B, IOS Press, 2017, 302, pp. 145 - 154 (Conference proceedings: 30th International Conference on Legal Knowledge and Information Systems, JURIX 2017, Kirchberg Campus of the University of Luxembourg, lux, 2017)
- Contissa, G., Lagioia, F., & Sartor, G. (2017). La manopola etica: i veicoli autonomi eticamente personalizzabili e il diritto. *Sistemi intelligenti*, 29(3), 601-614.
- Contissa, G.; Lagioia, F.; Sartor, G., Accidents Involving Autonomous Vehicles: Legal Issues and Ethical Dilemmas, «JUSLETTER», 2017, 23-November-2017, pp. 1 – 7
- Contissa, G.; Lagioia, F.; Sartor, G., Accidents involving autonomous vehicles: legal issues and ethical dilemmas, in: *Trends und Communities der Rechtsinformatik*, Wien, Oesterreichische Computer Gesellschaft, 2017, pp. 185 – 189
- Contissa, G.; Lagioia, F.; Sartor, G., The Ethical Knob: ethically-customisable automated vehicles and the law, «Artificial Intelligence and Law», Springer, 2017, 25, pp. 365 – 378

15. References

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