Marie Skłodowska-Curie POSTDOCTORAL Fellowships 2024

Expression of Interest for hosting Marie Curie Fellows

HOST INSTITUTION

NOVA School of Law

RESEARCH UNIT AND URL

CEDIS - Research Centre on Law and Society

CEDIS Research Centre - NOVA School of Law (unl.pt)

SUPERVISOR (NAME AND E-MAIL)

Vera Lúcia Raposo, vera.lucia.raposo@novalaw.unl.pt

SHORT CV OF THE SUPERVISOR

Vera Lúcia Raposo is an Assistant Professor of Law and Technology and the Vice-Director of the Nova School of Law. She graduated in Law from the University of Coimbra, where she also completed her postgraduate studies in medical law, and earned both a master's and a doctorate in legal and political sciences. Vera has taught at prestigious institutions such as the University of Macau in China and the University of Coimbra in Portugal. She specialized in health law and privacy while working as a lawyer at the Vieira de Almeida e Associados Law Firm, in Lisbon.

Vera's research primarily focuses on digital law, including AI, data protection, the metaverse, digital governance, and digital ethics, as well as biomedical law covering topics such as medical liability, patient safety, genetic editing, and digital health. Her work is widely published in indexed journals.

Vera Lúcia Raposo is profoundly experienced in digital issues. At NOVA School of Law, she leads the AI branch in the Masters in Law & Tech program and explores legal and ethical challenges posed by AI in healthcare. Her leadership in AI-related courses and her innovative research at the Hastings Center highlight her role at the forefront of legal and ethical discussions in health, science, and technology.

5 SELECTED PUBLICATIONS

5 relevant publications by the supervisor or project

- Vera Lúcia Raposo, 'Look at the Camera and Say Cheese': The Existing European Legal Framework for Facial Recognition Technology in Criminal Investigations', Information & Communications Technology Law 2023, DOI: 10.1080/13600834.2023.2239621
- Vera Lúcia Raposo, 'The Use of Facial Recognition Technology by Law Enforcement in Europe: A non-Orwellian Draft Proposal', *European Journal on Criminal Policy and Research*, 2022, https://doi.org/10.1007/s10610-022-09512-y
- Vera Lúcia Raposo, 'Ex Machina: Preliminary Critical Assessment of the European Draft Act on Artificial Intelligence, *International Journal of Law and Information Technology,* 2022, eaac007, https://doi.org/10.1093/ijlit/eaac007
- Vera Lúcia Raposo, 'The European Draft Regulation on Artificial Intelligence: Houston, We Have a Problem'. In: Marreiros, G., Martins, B., Paiva, A., Ribeiro, B., Sardinha, A. (eds) *Progress in Artificial Intelligence*. EPIA 2022. Lecture Notes in Computer Science, vol 13566. Springer, Cham, 2022. https://doi.org/10.1007/978-3-031-16474-3_6
- Pierre Colombo, Telmo Pessoa Pires, Malik Boudiaf, Dominic Culve, Rui Melo, Caio Corro, André F. T. Martins, Fabrizio Esposito, Vera Lúcia Raposo, Sofia Morgado, Michael Desa, 'SaulLM-7B: A pioneering Large Language Model for Law', 2024, arXiv preprint arXiv:2403.03883.

PROJECT TITLE/KNOWLEDGE CENTER AND SHORT DESCRIPTION

This research project focuses on the application of Artificial Intelligence (AI) in interpreting and applying the law to specific cases, demonstrating the ability of AI algorithms to comprehend legal frameworks and their implications. The core objective is to develop an AI system that not only understands the written law but also evaluates its repercussions in individual cases, ensuring compliance with multiple layers of legal standards.

The project will integrate AI technologies with comprehensive legal databases containing key legal texts such as the European Charter of Fundamental Rights, the European Convention on Human Rights, national constitutions, and specific procedural laws from various national criminal justice systems. By doing so, the AI system will be trained to process legal information, identify relevant legal norms, and apply them accurately to detailed case scenarios.

Key challenges include ensuring that the AI's interpretations align with current legal interpretations and that its application of the law respects fundamental rights and procedural fairness. The project will also address the ethical implications of AI in legal decision-making, particularly the risks associated with bias and accountability in automated legal assessments. Ultimately, this research aims to enhance the efficiency and consistency of legal processes through AI, while rigorously safeguarding the principles of justice and fairness integral to the legal system. This will involve close collaboration between legal scholars, AI experts, and practitioners to ensure that the technology is robust, transparent, and aligned with the ethical standards of the legal profession.

SCIENTIFIC AREA WHERE THE PROJECT FITS BEST*

SOC

*Scientific Area where the project fits best – Please select/indicate the scientific area according to the panel evaluation areas: Chemistry (CHE) · Social Sciences and Humanities (SOC) · Economic Sciences (ECO) · Information Science and Engineering (ENG) · Environment and Geosciences (ENV) · Life Sciences (LIF) · Mathematics (MAT) · Physics (PHY)