Position Offered: *POSTDOCTORAL RESEARCHER*

Project: *Learning ethics to guide AI decisions*

Technological and scientific fields: Artificial Intelligence, Artificial Intelligence & Ethics

Location: Bellaterra, Catalonia, Artificial Intelligence Research Institute (http://www.iiia.csic.es).

Research Group/PI: AI & Ethics, Juan Antonio Rodríguez Aguilar and Maite López Sánchez, (https://www.iiia.csic.es/en-us/research/themes/ethics-ai)

PROJECT SUMMARY

This project aims to develop a model to capture individual and collective value systems, which can serve as criteria for AI value alignment and other applications like supporting decision and policy making. In the state of the art, few attempts have addressed some parts of the process of capturing value systems for AI value alignment. This project takes a novel global approach to capturing value systems, studying and providing each of the necessary steps in the process. Furthermore, we place an emphasis on setting theoretical foundations for each step to ensure the soundness of the resulting value system, something not addressed before. This model will be composed of processes to capture individual interpretations of moral values and individual preferences and finally aggregate individual value systems into a collective one.

PROFESSIONAL PROFILE

Minimum requirements:

- PhD in Artificial Intelligence, Engineering, Computer Sciences or equivalent
- Strong background in Mathematics
- Strong background in Artificial Intelligence
- Experience in publishing research articles on AI
- Proficiency in Spanish and English

Merits to be considered:

- Experience in research projects on AI & Ethics
- Experience in publishing research articles on AI & Ethics
- Research awards

WHAT IS OFFERED

This project aims to contribute to the application of theoretical work on value alignment. With that aim, the selected candidate will become part of the IIIA world-renowned research team working on AI & Ethics. Furthermore, the selected candidate will take part in international collaborations with leading groups in AI & Ethics at the University of Oxford and in Social Choice at CNRS. Finally, the selected candidate will enrol in a Master's degree related to the project (worth 60 ECTS) and participate in training activities offered by ICMAT, CESGA, and the Machine Learning and Advanced Statistics Summer School (worth 10-17 ECTS).

Contract conditions:

Indefinite contract for a Postdoctoral Researcher associated with the Momentum Project of 4 years' duration according to Spanish science law. Gross annual salary (41.000 € - 52.000 €).

Start of contract: before 31 December 2024

PRINCIPAL INVESTIGATOR CONTACT

Email: jar@iiia.csic.es

Phone: +34 935809570