

Position Offered: UNIVERSITY GRADUATE

Project: *Artificial Intelligence in Prediction Policy Problems: New Frontiers in Forecasting, Causal Inference and Ethics*

Technological and scientific fields: Economic Analysis, Data Science , Statistical Methods
Computational Economics

Location: Bellaterra, Catalonia, Institute for Economic Analysis (IAE), <https://www.iae.csic.es/>

Research Group/PI: Economic Analysis, Hannes Mueller, <https://www.iae.csic.es/>

PROJECT SUMMARY

The project aims to advance the understanding of prediction policy problems. This research will explore the potential of AI-driven methods for dual systems of forecasting and causal inference while addressing ethical considerations in policy decisions. The candidate will utilize state-of-the-art data science tools and statistical methods to develop innovative dual models that can predict outcomes while considering forecasting problems simultaneously. The research will be conducted in a dynamic and interdisciplinary environment at the Institute for Economic Analysis, fostering collaboration with leading experts in economics and AI. This project promises significant contributions to both theoretical advancements and practical applications in the realm of policy making.

PROFESSIONAL PROFILE

Minimum requirements:

- Academic qualification: Graduate degree in Economics, Data Science, Statistics, or a related field.
- Proficiency in English

Merits to be considered:

- Knowledge of econometrics, economic modeling and statistical analysis.
- Experience with data science tools and programming languages such as R, Python, or similar.
- Previous research experience in prediction policy problems.
- Familiarity with advanced computational methods in economic analysis and data science

WHAT IS OFFERED

- Opportunity to work with a leading research team in economic analysis.
- Use of innovative technologies and methodologies in data science and economics.
- Collaboration with other research groups and entities.
- Interdisciplinary research environment.
- Comprehensive training plan, including:
 - PhD courses (de 30 a 120 ECTS)
 - Complementary courses in programming languages, writing, presentation skills, and dissemination (10-30 ECTS)
 - Summer and winter schools in Data Science (60-100 ECTS)
 - Training placements at other institutions (total of 6 months = 30 ECTS)

Contract conditions:

Indefinite contract for a University Graduate associated with the Momentum Project of 4 years' duration according to Spanish science law. Gross annual salary (37.000 € - 41.000 €).

Start of contract: before 31 December 2024

PRINCIPAL INVESTIGATOR CONTACT

Email: hannes.mueller@iae.csic.es

Phone: +34 935 929 780

[momentum@csic.es](https://momentum.csic.es/) | <https://momentum.csic.es/>