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CAREER PROFILE

Highly motivated and analytical Ph.D. student with expertise in economic theory, econometrics, and applied microeconomics. Research focused on public finance and the impact of conflict. Strong research skills, including data analysis, econometric modeling, and statistical inference. Proficient in various software such as Stata, R, and Matlab. Excellent communicator with fluency in multiple languages. Proven interpersonal skills for fostering positive team dynamics.

EXPERIENCE

Data Scientist   **Aug 2023 - Present**

EconAI - Fundació d'Economia Analítica   Barcelona, Spain

Directed the economic fragility dimension for the German Federal Foreign Office.

  i. Conduct literature review on economic Early Warning Systems.
  ii. Define economic fragility.
  iii. Update our data pipeline and the machine learning models.
  iv. Apply advanced machine learning techniques to predict economic failures.

Data Analyst   **Apr 2022 - Aug 2022**

Open Philanthropy   Barcelona, Spain

Quantified economic and health costs of civil wars considering the "conflict trap" phenomenon.

  i. Designed empirical strategy and performed data management tasks.
  ii. Estimated a Markov process model with economic, health, and conflict panel data.
  iii. Performed simulations to obtain statistics on the costs of conflict.
  iv. Conducted literature review, prepared documents, and delivered presentations.

Lecturer   **Sep 2020 - Aug 2021**

Universitat Autònoma de Barcelona   Barcelona, Spain

Taught content and designed exams and problem sets to evaluate +100 students.
Courses (Undergrad.): Introduction to Economics, and Applied Statistics.

EDUCATION

Ph.D. in Economic Analysis (IDEA Program)   **Sep 2020 - Present**

Universitat Autònoma de Barcelona - Barcelona School of Economics   Barcelona, Spain

Use quantitative methods and theoretical models for studying:

i. Conflict's effect on government bonds. Use cross-country forecasted probability of escalation on countries' yield curves.
ii. Political influences on commodity taxation. Develop a new model of optimal taxation and test main mechanisms using data on India.

MRes in Economic Analysis (IDEA Program)   **Sep 2018 - Jul 2020**

Universitat Autònoma de Barcelona - Barcelona School of Economics   Barcelona, Spain

Bachelor's Degree in Engineering in Industrial Organization   **Sep 2012 - Jul 2017**

Escola Universitària Salesiana de Sarrià   Barcelona, Spain

LANGUAGES

Spanish (Native), English (Fluent), Italian (Advanced), French (Basic), and Catalan (Native).

SOFTWARE SKILLS

Stata (Advanced), Matlab (Advanced), R (Advanced), Python (Intermediate, Tensorflow for Deep Learning), Microsoft Office (Advanced), and LaTeX (Advanced).

FURTHER INFORMATION

Model UN participant, volunteer work in the Red Cross, member of the European Youth Parliament, national rowing team, awarded scriptwriter, and guitar player.