

Jan Ot Piña Urgell

(+34) 640 293 595

janot.pina@gmail.com

WORK EXPERIENCE

PHD CANDIDATE

April 2024 - Currently

DELFT TECHNICAL UNIVERSITY, Delft, Netherlands

Research at the Intelligent Energy Power Grid Group under the supervision of Milos Cvetkovic and in collaboration with CRESYM. Working on cross-sector coupling of models and smart-linking, with a focus on modeling imperfect competition and the elaboration of metamodels for such behavior.

TRAINEE IN MARKET SURVEILLANCE

March 2023 - March 2024

EU Agency for the Cooperation of Energy Regulators (ACER), Ljubljana, Slovenia

Traineeship in the Market Surveillance and Conduct team in charge of addressing REMIT violations, Developing methodologies and programs for the detection of outliers in Energy and LNG markets using public data. Coordination on the Market Correction Mechanism procedures.

BACKEND AND WEB PROGRAMMER

August 2021 - October 2024

IEC (Institut d'Estudis Catalans), Barcelona, Spain

Creation of a database on Mathematics books written in Catalan, developing a search engine and a WordPress plugin for the website: *matematiquesencatala.iec.cat*. Participating also in the elaboration of an API for the database.

INTERNSHIP

May 2021 - December 2021

Matemathical Research Center (CRM), Cerdanyola del Vallès, Spain

Report drafting, Programming, and helping in the daily tasks at the Knowledge and Technology Transfer Unit in the research center. Supporting role in the unit's projects on Cybersecurity and Transportation. Also started an Intellectual Property Awareness program.

PROCEDURES AND MANAGEMENT

February 2019 – July 2024

Integrated Environmental and Energy Solutions

Carrying procedures for the notification and solicitudes of perforation before the Catalan Water Authorities (Agència Catalana de l'aigua, ACA). Elaboration of environmental studies.

EDUCATION

MASTER IN COMPUTATIONAL MATHEMATICS

2024-Currently

Universitat Rovira Virgili, Spain (Online).

Interdisciplinary training in current topics in computing and mathematical engineering: computer modeling and simulation, numerical methods and mathematical modeling, artificial intelligence, applied optimization and Big Data

MASTER IN ADVANCED MATHEMATICS
Universitat de Barcelona, Spain.

2022-2023

Studies mainly oriented to research and mathematical innovation, with a rigorous exposure to mathematical topics such as Topological Data Analysis and Optimization. Development of skills to use computational and mathematical methods oriented to multidisciplinary environments. Courses in English

Final Master's Thesis: Accessible Higher Modalities

DEGREE IN MATHEMATICS
Universitat Autònoma de Barcelona, Spain

2018-2022

Mathematics degree with a strong foundation in both pure mathematics and applied methods. With an Erasmus stay in Aberdeen University in Scotland in my fourth year.

Final Bachelor Thesis: The Brown Representability theorem for cohomologies

LANGUAGE SKILLS

Spanish: Native

Catalan: Native

English: C1, IELTS 7.5

French: A1

DIGITAL SKILLS

Programming (Advanced): C, Python, SQL, and R

Programming (Intermediate): Java, LEAN, Julia, Kotlin, AGDA

Ofimatics: Microsoft Office, LaTeX, PowerBI and Excel

OTHER

Publications:

- Co-authored a divulgation article on Cryptodivise markets, it can be found at https://scm.iec.cat/wp-content/uploads/2021/12/Noticies-49_web.pdf (in Catalan)

Summer Schools and Courses:

- *Mathematics in Ljubljana Summer School* (Summer 2023)
One week stay at the Ljubljana's University Faculty of mathematics and physics. With courses in Complex Dynamics and Formalization.
- *Postgraduate in data science for mobility and logistics* (Spring 2024)
Postgraduate focused on data science to support sustainable mobility, smart cities and innovations like car-sharing and Mobility as a Service (MaaS).
- *Reproducible research software development using Python* (Autumn 2024)
Workshop offered by CodeRefinery to Cresym members.
- *Introduction to Julia for High-Performance Computing* (Autumn 2024)
Course at TU Delft university, using the computing resources from Delftblauw clusters.