

JACOB PICHELMANN

Graduate Student in Econometrics and Data Enthusiast

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EXPERIENCE

Research Assistant

University of Zurich

📅 Nov. 2020 – August 2021 📍 Remote

- Prepared an extensive data set of trade volumes and macroeconomic variables by scraping various sources, amounting to roughly 40 million observations.
- Conducted econometric analysis of macro data which was presented in the Kühne Center Impact Series.

Intern

Erste Bank Group AG

📅 May 2020 – July 2020 📍 Vienna, Austria

- Assisted the development of a production ready machine learning pipeline to detect financial crime.
- Crafted an in-depth data quality report and developed solution strategies. Established a set of data quality indicators for in-production usage.

Intern/Consultant

Organisation for Economic Co-operation and Development (OECD)

📅 March 2019 – March 2020 📍 Paris, France

- Coauthored a working paper investigating the drivers of residential mobility patterns which included conducting rigorous econometric analysis of micro data (published in Oct. 2020).
- Hosted a seminar and presented key findings to stakeholders and country desks.

Co-founder

Findus App OG - Event Search and Categorization

📅 March 2015 – June 2018 📍 Vienna, Austria

- Developed a business plan and optimization strategies, orchestrated the product and structural design of a mobile app.
- Mined data from HTML sources and various APIs, managed an extensive database and applied commonly used NLP techniques to develop categorical clusters.

Civilian Service

Refugee Support Organisation Verein Ute Bock

📅 October 2013 – June 2014 📍 Vienna, Austria

- Coordinated a series of fundraising events, collecting a record sum of 45.000€ in donations.
- Provided legal counselling for refugees (supported by experts), involving regular interactions with the government.

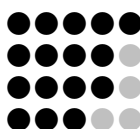
SKILLS

R, Python, SQL, LaTeX

Azure, Spark, Keras, PyTorch

Eviews, Stata, Excel, MS Office

Adobe XD, Adobe Photoshop, Lightroom



EDUCATION

MSc in Econometrics & Empirical Economics

Toulouse School of Economics (TSE)

📅 September 2019 – October 2021

- Rank 8 worldwide (IDEAS).
- Finished top of cohort, with highest honors.
- Specialized in empirical IO, financial econometrics, machine learning and data analytics.

Magister Legum in Law

University of Vienna

📅 October 2015 – Now

BSc in Economics

Vienna University of Econ. and Business (WU)

📅 October 2015 – November 2018

- Passed with highest honors, rank 30 (top 1%).

BSc in Technical Physics

Vienna University of Technology

📅 October 2014 – July 2015 (discontinued)

SELECTED PROJECTS

Sustainability Data Science Challenge

- Developed a Keras image segmentation pipeline to estimate CO2 emissions, biodiversity and solar potential of satellite images. Managed to boost performance by 80% using custom augmentation techniques to balance training data. (hosted by Microsoft and others, rank 1 as of Oct. 2021)

Beyond Efficiency: A Novel Framework to Measure Trade Flow Resilience

- Established a novel method of parametrizing the theoretical notion of resilience using smooth autoregressive transition models. (MSc Thesis, to be used in UZH research)

Political Knowledge and Voting Behaviour

- Developed and estimated a two dimensional proximity model of voting to investigate the effect of political knowledge on voter's ability to vote in their best interest. (Student Paper, TSE)

The Efficient Market Hypothesis in the Age of Neural Networks

- Applied machine learning techniques (RNNs) to predict stock price movements, rigorously evaluated AI based trading strategies. (BSc thesis)

GRANTS/OTHER

- Dean's List awardee, WU
- Merit-based scholarship grant 2016/2017/2018 (WU) and TSE scholarship in 2020
- Certified skiing instructor, coach of a local league soccer team, fluent in German & English