



Curriculum Vitae

Jakub Kubajek

Warsaw, Poland

✉ j.kubajek@gmail.com

🌐 [jkubajek](https://jkubajek.github.io) • [in jakub-kubajek](https://www.linkedin.com/in/jakub-kubajek) • [jkubajek.github.io](https://github.com/jkubajek)

A graduate of the Quantitative Methods in Economics and Information System at Warsaw School of Economics. Professionally handling econometrics, statistics and data visualisation. Passionate about new technologies like AI but also about those well-established as econometrics.

Work Experience

NLP Trainee in AI team

- *Samsung R&D Poland* *Apr 2019–Jun 2019*
Currently, I take part in a 3-month internship at Samsung R&D, where I work in the NLP project - building QA system in Python with the use of BERT and Elasticsearch.

Data Scientist

- *The Chancellery of the Prime Minister of Poland - Department for Strategic Analyses* *Apr 2018–Mar 2019*
I was responsible for text-mining analyses of public debate and social media. My duties included crawling of news sites and sentiment analysis of selected subjects. I developed an algorithm that automatically summarises articles published on selected polish news sites. This program calculates the daily importance of particular words, group them into topics and summarise them by choosing the most crucial sentences.

Junior Data Scientist

- *The Chancellery of the Prime Minister of Poland - Department for Strategic Analyses* *Jul 2016–Mar 2018*
Responsible for mid and long-term analyses of the labour market, pension system and health care. My duties included developing polish pension system simulation model, econometric analyses, data wrangling and maintenance of large PostgreSQL data warehouses with the use of R and dplyr.

Trainee

- *The Chancellery of the Prime Minister of Poland - Department for Strategic Analyses* *May 2016*
During my internship, I developed an R package for the analysis of the economic model used in Chancellery.

Trainee

- *Ministry of Finance of Poland - Macroeconomic Policy Department* *Mar 2016*
I was responsible for the development of the semi-automated report framework in Rmarkdown.

Education

Academic Qualifications.....

- **Warsaw School of Economics** *2016–2019*
Master's degree, Quantitative Methods in Economics and Information Systems
- **Warsaw School of Economics** *2013–2016*
Bachelor's degree, Quantitative Methods in Economics and Information Systems
- **II Liceum Ogólnokształcące im. Stefana Batorego w Warszawie** *2010–2013*
Matura, Extended mathematics, geography and history, over 90% average from final exams

Notable Projects.....

o **Econometric analysis of european elections**

Recently, I have analysed the results of the European parliamentary elections in Poland. I found the degree of conservatism to be a major factor determining regional support for PiS (Law and Justice). The growth of support for PiS between 2015 and 2019 may be attributed to the involvement of people's party (PSL) in the liberal coalition. I published the results of my analysis on GitHub pages: [jkubajek.github.io/EP2019/index](https://github.com/jkubajek/EP2019)

o **Masters Thesis:** *'Agent-based analysis of the cryptocurrency speculative bubble'*

In my master thesis, I developed a multiagent model that explains the mechanism of creation of a speculative bubble on cryptocurrency market. In the model, agents are modelled as nodes of the semi-random graph and use multiobjective optimisation (PSO) to make decisions.

o **Student Econometrics Research Group (SKN Ekonometrii):** *Econometric Game 2018*

In a group of four students of WSE we were preparing ourselves for the Econometric Game 2018 and took part in this competition in April 2018. During a whole year we arranged open meetings for students where we were explaining various econometric methods. Most of the presentations are published on the association's web page.

o **Bachelor thesis:** *'Analysis of the monetary policy with the DSGE model'*

In my bachelor thesis I implemented a small DSGE model calibrated for the polish economy and checked which monetary policy regime is optimal in the sense of welfare function.

Workshops.....

o **PL in ML:** *Tutorial on Conversational AI* - workshop in Python introducing into algorithms used for the creation of chatbots.

o **PyData Warsaw:** *Tutorial on recommendation systems* - workshop led by *Samsung AI* team about algorithms used in recommendation systems.

Technical and Personal skills

o **Programming Skills:**

Advanced: R;

Good: Python

Intermediate: Julia, SQL, Matlab, TeX;

Basic: Linux, Git, PL/SQL.

o **Analytical Skills:**

Advanced: Econometrics (esp. spatial, panel and micro-econometrics), Data wrangling and visualisation;

Good: Machine learning, Text mining, Simulation modelling, Agent-based modelling;

Intermediate: Cloud computing (AWS)

Basic: Time series analysis.

o **General Business Skills:** Good presentation skills, Works well in a team, Good organisational skills.

o **Languages:** Polish (native), English (fluent - C1), French (skilled - B2), German (basic).

Extra-curricular activity and interests

o In the academic year 2017/18, I have been a president of the Student Econometrics Research Group (SKN Ekonometrii) where I was responsible for meetings' organisation and preparing presentations for other members.

o I am also an avid traveller, having visited 3 countries only last year. Other interest include crossfit which in my opinion is the best sport because it is the most holistic type of training that exists.

I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation). I also consent to processing of my personal data for the purposes of any future recruitment processes.