

# Pawel Struski

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## Education

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### PhD in Machine Learning and Economics, University of Warsaw

2024-present | Warsaw, Poland

- Research interests: model interpretability & explainability, large language models, causal inference, foundation models for economics, game-theoretic incentive-driven coordination of AI agents
- Supervisors: Prof. Joanna Tyrowicz, Prof. Przemyslaw Biecek

### MPhil in Economic Research, University of Cambridge

2018-2019 | Cambridge, UK

- Overall Result: 70.4 (met the faculty requirements for progressing to PhD studies)
- Dissertation focused on applying quasi-experimental techniques for causal inference

### BSc in Economics, University College London (UCL)

2015-2018 | London, UK

- First Class Honours (1:1)

## Employment

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### Research Assistant, Group for Research in Applied Economics (GRAPE)

2024-present | Warsaw, Poland

- Supported the group in various data analysis tasks

### Economist, Economic Research Team, Citadel

2022-2024 | London, UK

- Developed and maintained a production-level codebase for an internal Python library used by economists to forecast key macroeconomic variables (e.g. inflation)
- Maintained an optimisation engine for finding optimal forecasting models based on a pre-determined set of features
- Developed a model diagnostic system aimed at ensuring the model performance remains within the acceptable range and any arising biases are identified and fixed on a continuous basis

### Inflation and Macro Quant Strategist, Research Team, BNP Paribas

2020-2022 | London, UK

- Managed the forecasting process of monthly inflation for the euro area
- Developed an autonomous inflation forecasting procedure based on an ensemble of time-series models

### Graduate Analyst, Research Team, BNP Paribas

2019-2020 | London, UK

- Analysed and visualised macroeconomic time-series data

### Research Assistant to Prof. Eric French, Institute for Fiscal Studies

2017-2019 | London & Cambridge, UK

- Assisted with a research project which used a quasi-experimental econometric technique – a regression discontinuity design – to estimate the causal labour supply effect of a reform that switched the Polish pension system from a Defined Benefit (DB) to a Notional Defined Contribution scheme (NDC).

## Conference Presentations

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Struski, P. *Competitive Market Behaviour of LLMs*. Poster at MLinPL, 2025 (upcoming)

Struski, P. *Using NLP techniques to predict whether a vacancy will be filled*. Oral at DIW Berlin-WNE UW PhD Summer School in Economics, 2025 (upcoming)

## Awards & Scholarships

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### **Bona Fide Scholarship | 2018**

A merit scholarship covering the full tuition fee of my master's course

### **Laurate of the Economics Olympiad | 2015**

Achieved the 9<sup>th</sup> best score in Poland and received a scholarship from the National Bank of Poland

## Technical Skills

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**Programming:** Python (advanced), R, C++, SQL, Bash

**ML Frameworks:** scikit-learn (advanced), statsmodels, PyTorch, TensorFlow, HF Transformers

**Data Processing Frameworks:** pandas (advanced), numpy (advanced)

**LLM Frameworks:** CrewAI, LangChain

**Data & Software Engineering:** Model deployment & serving, CI/CD

**Tools & Environment:** Git, Conda, Weights & Biases

## Personal Information

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**Languages:** Polish (native), English (proficient), German (basic)