

Pawel Struski

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Education

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. dr. hab. Joanna Tyrowicz, Prof. dr. hab. 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)
- Relevant modules include: Time Series Econometrics, Econometric Theory
- 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)
- Relevant modules include: Game Theory, Econometrics, Mathematical Analysis

Employment

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

2024-present | Warsaw, Poland

- Supported the group in various data analysis tasks for the purpose of preparing scientific publications

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

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

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 9th best score in Poland and received a scholarship from the National Bank of Poland

Technical Skills

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

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

Citizenship: Polish, British