

Hubert Drazkowski

27.05.1998

+48 531 600 820

✉ drazkowskih@gmail.com

🌐 hubertdrazkowski.github.io



Education

- 2025–present **PhD: Theoretical Machine Learning**, University of Copenhagen
- Topic: *TAILORED: Theoretical Foundations of Learning with Observational and Interventional Data*
 - Disciplines: Informatics, Mathematics
 - Supervisors: Yevgeny Seldin, Sebastian Weichwald
- 2024–2025 **PhD: Interdisciplinary Doctoral School**, University of Warsaw
- Topic: *Sequential Decision Making with Interventional and Observational data*
 - Disciplines: Mathematics, Informatics, Economics
 - Supervisors: Joanna Tyrowicz, Lukasz Rajkowski
- 2020–2023 **M.Sc. in Mathematics: Mathematical Statistics and Data Analysis**, University of Warsaw of Technology
- Thesis: *Sponsored content in contextual multi-armed bandit* 🔗
 - Final grade: 4.77/5, (5/5), summa cum laude
 - GPA: 4.62/5
 - Dean's award for top students
 - Ministry of Higher Education award for academic excellence
- 2017–2020 **B.A. in Quantitative Methods in Economics and Information Systems**, SGH Warsaw School of Economics
- Thesis: *Notion of realized volatility. Comparison of HAR-RV and rGARCH models*
 - Final grade: 4.68/5, (5/5)
 - GPA: 4.38/5; major GPA: 4.67/5
 - Dean's award for top students

Research experience

- 06/2021–present **Research assistant at FAME|GRAPE**, *EquAl in ReacHing AspiRaTions* - Norway Grants and National Science Center Poland
- Statistical analysis, applied econometrics, writing papers from social science, presenting research at conferences, popularizing science 🔗
- 06/2023–10/2023 **Student researcher at University of Warsaw of Technology**, *Cyber Summer @WUT-3*
- Summer internship, program for 10 university students. Working on a paper: *Authoritarian Sponsor model. Deconfounding TNAR case*
- 09/2020–06/2021 **Student researcher at Warsaw School of Economics**, *Young Scientist SGH*
- Academic year internship, program for 10 students from the university. Working on a paper: *Simulation comparison of multiple imputation methods for nominal data*

Awards

- **Ministry of Higher Education award for academic excellence in 2021/2022**
Awarded the prize for 18 students from the field of mathematics from all Polish universities among 414 students from all disciplines
- **Dean's list award at University of Warsaw of Technology**
Awarded for being academic-wise at least in the 92 quantile in the program
- **Dean's list award at Warsaw School of Economics**
Awarded twice for being GPA-wise at least in the 90 quantile in the program
- **BNY Mellon Science Master's Thesis Competition award**
3rd place in national Master's thesis competition, for the thesis defended in 2022/2023 in the field of applied mathematics

Publications

- 2024 **with Tyrowicz, J. and Zalas, S.: Gender board diversity across Europe throughout four decades**, *Nature Scientific Data*, DOI:10.1038/s41597-024-03181-8
- 2023 **with Zalas, S.: The evolution of labor share in Poland. New evidence from firm-level data**, in *Gospodarka Narodowa*, DOI:10.33119/GN/170227
- 2022 **Simulation comparison of multiple imputation methods for nominal data**, in *Contemporary economic challenges in the analyzes of the participants of the Young Scientist program at SGH*, ISBN 978-83-8030-550-2
- 2021 **Dimensions of sanctions success. On the quest of measuring effectiveness**, in *Political Economy in theory and practice. Anthology of students' articles*, ISBN 978-83-8030-462-8

Conferences

- 2024 **XXI Conference on Internationalization Processes in Global Economy**, *Katowice Economic University*, Gender spillovers in ownership networks, Oral
- 2024 **RES 2024: Royal Economic Society Annual Conference**, *Royal Economic Society*, Gender board diversity spillovers and the public eye, Poster
- 2024 **COPE 2024: Colloquium on Personnel Economics**, *University of Zurich, COPE*, Token women: are there spillovers from gender board diversity?, Oral
- 2023 **MIUE 2023: XIII Conference on use of mathematics and information science in economics research**, *Poznan University and Statistics Poland*, Authoritarian Sponsor model. Deconfounding TNAR case, Oral
- 2023 **ASSA 2023**, *American Economic Association*, Token Women: Supervisory and Management Boards, Oral
- 2022 **MIUE 2022: XII Conference on use of mathematics and information science in economics research**, *Poznan University and Statistics Poland*, Gender diversity spillovers between boards, Oral
- 2021 **DwuMIan**, *University of Warsaw of Technology and University of Warsaw*, Simulation comparison of multiple imputation methods for nominal data, Oral

Work in progress

Gender Board Diversity Spillovers and the Public Eye, *revise and resubmit*

Implicit Gender Quota in Boardrooms, *submitted*

Gender Tokenism in Corporate Boardrooms in Europe, *revise and resubmit*

Gender Board Diversity Spillovers Through Ownership Network, *revise and resubmit*

Programming

- **Python:** e.g., scikit-learn, TensorFlow 2.0, pandas, NumPy, JAX, PyTorch, pyMC, networkX, dill; contextual bandits simulation, fuzzy data analysis, ML classification and regression models, deep learning, clustering, text mining, networks, explainability
- **R:** e.g., Tidyverse, caret, survival, glmnet, mice; financial time series, covariance estimation, data imputation, econometrics, survival analysis
- **STATA:** e.g., panel data, network regression
- **SQL:** e.g., normalization, queries, transactions
- **LATEX:** beamer, articles, posters
- **Git:** working proficiency

Hackathons

- **Lion's Den ING Risk Modelling Challenge 2024**

3rd place in data science and presentation competition; working in a team of 3 people. It was a 2 days competition for students and early graduates from all Polish universities.

- **Warsaw Econometric Challenge 2022**

3rd place paper wise and 2nd place prediction accuracy wise out of 28 university teams from Poland. It was a 24 hours coding and paper writing data science contest in a 4 people team at most at a PhD program.







Languages

- **Polish:** Native
- **English:** C2 (advanced)
2016 CAE: 199/210
2023 TOEFL: 110/120
- **Spanish:** B2 (intermediate)
2019 Business Spanish: B2

Other work experience

- 08/2020–07/2021 **Actuarial intern**, *Aviva Global Service Center*, VaR validation, automating reporting in VBA
- 10/2019–01/2020 **Economics tutor**, *Edufactory*, Tutoring microeconomics and macroeconomics to undergraduate students

References

- **Prof. Yevgeny Seldin** 
University of Copenhagen
seldin@di.ku.dk
PhD thesis supervisor, Supervisor in a grant
- **Lukasz Rajkowski** 
Warsaw University
l.rajkowski@mimuw.edu.pl
Former PhD thesis advisor
- **Prof. Szymon Jaroszewicz** 
University of Warsaw of Technology, IPIPAN
s.jaroszewicz@ipipan.waw.pl
Master's thesis supervisor, advisor in a student grant, class instructor
- **Prof. Joanna Tyrowicz** 
FAME|GRAPE, University of Warsaw, University of Regensburg, IZA, RCEA
j.tyrowicz@grape.org.pl
Supervisor in a grant, employer
- **Prof. Przemysław Grzegorzewski** 
University of Warsaw of Technology
przemyslaw.grzegorzewski@pw.edu.pl
Master's studies coordinator, class instructor
- **Prof. Katarzyna Bien-Barkowska** 
SGH Warsaw School of Economics
kbien1@sgh.waw.pl
Bachelor's thesis supervisor, class instructor

Interests

- Statistics and Machine Learning: in general
- Causality: models, reasoning, inference
- Sequential Decision Making: bandits, reinforcement learning, active learning
- CausalML and CausalRL
- Information Economics