Lawyer • Mathematician • Data Scientist

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Jędrzej Wydra

He specializes in **evidence evaluation**, **AI law**, as well as **machine learning** and **functional data analysis**. In 2016 he committed to building **interdisciplinary expertise**, bridging law and data science. Since 2017, he has been involved in both research and applied projects; primarily academic, but also commercial, where **explainability and effectiveness** are always at the core. Guided by the principle that if something can be done more simply, it should be, he combines technical rigor with practical efficiency. Between 2020 and 2023, his research in evidence evaluation revealed that numbers and regulations are not the whole picture. In 2024, he began studying psychology to better understand human emotions and motivations. He balances academic work with calisthenics. Overcoming limits, both physical and mental, serves as his compass. **For him, challenges are opportunities, not reasons to give up**. Matcha reminds him that perseverance is built through ritual, not one-time effort.

Short summary

- 8 yrs data/regulation/AI
- Statistics • Python • R • Git
- Tidyverse • scikit-learn
- Research & comercial projects
- Lecturer at AMU since 2022
- Machine learning • AI law

Education

Law (AMU, Master's degree)
2015–2020 *(spec. forensic science)*
selected courses: *Financial law, Economic insurance law*

Mathematics (AMU, B.Sc.)
2016–2020 *(spec. data analysis)*
selected courses: *Financial arithmetic and portfolio analysis, Actuarial mathematics*

Mathematics (AMU, M.Sc.)
2020–2023 *(spec. theoretical mathematics)*
selected courses: *Functional Analysis, Multivariate Statistics*

PhD in Law (AMU, in progress)
2020–obecnie *(spec. evidence evaluation)*
selected courses: *Self-Presentation and Negotiation, Foundations of Critical and Creative Thinking*

Psychology (AMU, in progress)
2024–obecnie *(master studies)*
selected courses: *Emotions and Motivation, Social Psychology*

Selected certificates

Bayesian Statistics
Coursera, August 2023
data analysis, time series

AI Fundamentals
DataCamp, August 2024
genAI, prompt engineering, AI ethics

Data Science
DataCamp, June 2025
SQL, ML, business comunication

Experience

Researcher, PhD Student in Law / *Adam Mickiewicz University in Poznań*
October 2020 – Current
He does research in the field of **evidence evaluation**, where mathematical precision meets legal reasoning. Bridging law and mathematics, he presents interdisciplinary findings at numerous conferences, making them accessible to both lawyers and scientists, and **translating theory into practice**.

Head of Technology / *SICSS-AMU/Law (Collaboration with Duke University)*
December 2021 – January 2025
He co-created the SICSS-AMU/Law workshops, which equipped lawyers and social scientists with skills in **Python**, **R**, and **NLP**. He led teams developing **real projects** with **LLMs**, showing participants how to connect theory with empirical research.

Lecturer / *Adam Mickiewicz University in Poznań*
October 2022 – Current
Since 2022, he has been teaching **legal logic** and **forensic traces**, and since 2024 also **Python**, **statistics**, and **Data Science**. He is currently preparing new courses on **cybersecurity** and **AI law**. Teaching is central to his work, as knowledge only gains real value when it can be shared. Students appreciate his clear explanations of complex topics (see reviews here).

Data Scientist / *Freelancer*
January 2024 – Current
He has participated in projects at the intersection of **AI** and law, co-developing an **AI legal agent** and a **machine translation tool** built on LLMs. The key challenge was **data protection**, so the solutions were designed to combine technical efficiency with full regulatory compliance.

Selected projects

Competition, cooperation, and parental effects in larval aggregations
March 2024 Publication GitHub Repo
He developed nonlinear models to describe biological phenomena and created data visualizations, ensuring **full explainability of results**. A key element was close **collaboration with biologists**. The models combined mathematical precision with domain theory, producing solutions that were both scientifically valid and practically useful.

Functional Temperature Reconstruction for Forensic Time Series
December 2024 Publication GitHub Repo
He developed a model for **reconstructing historical temperatures** from limited measurements, a key factor in **estimating time of death**. The solution balanced statistical accuracy with the practical constraints of forensic work. Its effectiveness was confirmed when it was applied in a **real investigation in Frankfurt**, demonstrating both theoretical value and practical utility.

Kernel-based Independence Testing for Functional Data
March 2025 Publication GitHub Repo
He co-developed a **test of independence for functional data**; datasets where observations take the form of functions rather than points. The project combined mathematical rigor with practical applicability, with particular relevance for **vector databases**, where functional data analysis is increasingly important. The outcome is a test designed for analyzing modern, complex datasets.

Commentary on the AI Act (in Polish)
Planned for Autumn 2025
A **legal commentary** is a form of detailed analysis of legal provisions and their practical application. In this project, Jędrzej co-authored a commentary on the **Artificial Intelligence Act (AI Act)**. As an editor, he ensured that legal interpretations aligned with technological realities, and as a co-author, he worked on the most **technically complex provisions**, combining regulatory analysis with the practice of building AI systems.