Zuzanna Osika

PhD researcher: Explainable AI

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Profile

Working on AI tools to enhance explainability and transparency for Public Policy Design, focusing on climate change policies. Specializing in addressing complex decision-making with diverse objectives and stakeholders.
For publications, please refer to my Google Scholar.

Areas of Expertise

Explainable AI - Reinforcement Learning - Multi-Objective Decision-Making - Transparent Decision-Making - Public Policy Design - Climate Change Adaptation - Data Science

Experience

PhD Condidate, *(HIPPO Lab, Technical University Delft)*   **Delft, NL** *04/2022 - present*
- Utilizing AI (reinforcement learning) to tackle societal challenges (e.g. climate change), aiming to develop adaptive and transparent public policy solutions.
- Creating AI explainability tools to assist policy-makers in utilizing AI for decision-making processes.
- coordinator of a master's course: *Interdisciplinary Advanced AI Project* — member of PhD Council — member of working group on diversity and inclusion at TU Delft

Socio-Economic Data Scientist (YGT), *(European Space Agency)*   **Oxford, UK** *09/2020 - 03/2022*
- Developed web-based dashboards for data visualization. Utilized R, Python, and econometric models for data analysis impacting UN Sustainable Development Goals.
- Presented insights to the representatives of member states

Junior Modelling Analyst, *(Nielsen)*   **Warsaw, PL** *10/2019 - 08/2020*
- Performed econometric modeling and data analysis in FMCG industry.
- Automated data tasks in R.

Education

MSc Computer Science and Econometrics *University of Warsaw*   **Warsaw, PL** *2018-2020*
Thesis: Comparison of tree-based models' performance in prediction of marketing campaign results using Explainable Artificial Intelligence tools (working paper)

Exchange *University of Bologna*   **Bologna, IT** *2019*
Exchange Student at the Department of Statistics. Relevant Courses: Non-parametric statistics, Methods and Tools for Official Statistics: Population and Health Statistics, Econometrics

BSc Computer Science and Econometrics *University of Warsaw*   **Warsaw, PL** *2015-2018*
Thesis: Tertiary Education Levels and Earnings in Poland and Some Other OECD Countries (published paper)

Skills

- **Technical & Software:** Python (numpy, pytorch, pandas, gym, plotly), R (R shiny, plotly), SQL, Stata, Power BI, Adobe Illustrator, MS Office

- **Interpersonal:** Presentation of complex concepts in an approachable way, Leadership, Organized, Creative Problem-Solving, Active Listening & Empathy, Adaptability, Analytical Thinking

Languages

- **Polish** [Native]
- **English** [Advanced]

- **Dutch** [Basic] - Learning