



Project Participation Call:

Balancing priors and learning biases to improve Bayesian Neural Networks

We are looking for Ph.D. students and final-year postgrad students of computer science or mathematics, interested in Bayesian methods and Deep Learning, willing to take part in the project “Balancing priors and learning biases to improve Bayesian Neural Networks”. For detailed information or in case of any inquiries do not hesitate to contact [tomasz.kusmierczyk \[at\] gmail.com](mailto:tomasz.kusmierczyk@gmail.com)

Basic information:

- **Keywords:** Bayesian Deep Learning, uncertainty quantification, priors and posteriors, amortized and boosted posterior models
- **Place:** Jagiellonian University (UJ) in Krakow (Poland): Group of Machine Learning Research (<https://gmum.net/>)
- **Principal Investigator:** Tomasz Kuśmierczyk, PhD
 - PhD from Norwegian University of Science and Technology 2018; postdoc at University of Helsinki 2018-2020; industry experience 2020-2023
- **Mentor / Supervision:** prof. Jacek Tabor
- **Funding:** Polonez Bis 2 - National Science Centre (NCN) grant for researchers returning to Poland
 - **Project start:** beginning of 2024 (preliminary works already started)
 - **Scholarship:** the grant covers two scholarships PLN 5,000/month for up to 24 months (exempt from taxation; may be used in addition to other income sources e.g. doctoral scholarship; *deadline for [doctoral school registration at UJ: 12.09.2023](#)*). The scholarships will be awarded in January 2024.

Requirements:

- Modern probabilistic methods and applied statistics
- Programming skills (python and pytorch or TensorFlow)
- English language fluency