

MARCIN SENDERA

AI Research Scientist

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★ Recommendation from Prof. Yoshua Bengio available

PROFESSIONAL SUMMARY

Ph.D. in Computer Science, awarded with distinction (Jagiellonian University, May 2026; reviewed by Arnaud Doucet, Amos Storkey, Piotr Miłoś).
First-author publications at NeurIPS, ICML, and UAI. Year-long Mila internship with Yoshua Bengio. Specialized in diffusion samplers, GFlowNets, and amortised inference. Seeking research scientist roles at leading AI labs.

RESEARCH EXPERIENCE

Research Assistant & AI Research Scientist

Jagiellonian University & NASK - National Research Institute

📅 Mar 2026 – Present 📍 Kraków & Warsaw, Poland

- Jagiellonian University: research on probabilistic deep learning, machine unlearning, and reasoning models; teaching: AI fundamentals.
- AI Safety research at NASK: agentic red-teaming, reasoning model interpretability, alignment methods for LLMs and generative models.

Research Intern

Mila – Québec AI Institute

📅 Oct 2023 – Sep 2024 📍 Montréal, Canada

- Research with Prof. Yoshua Bengio on diffusion samplers and Bayesian posterior modeling (for AI safety and reasoning).
- Four NeurIPS/ICML papers (first author on two) on off-policy training, posterior inference, and diffusion samplers.

Research Intern

University of Cambridge / Hutchison-MRC

📅 Jul 2018 – Sep 2018 📍 Cambridge, UK

- Deep learning for early cancer detection from DNA methylation: 98.2% multi-class accuracy across 13 cancer types; journal paper.

INDUSTRY EXPERIENCE

Machine Learning Engineer

UBS (R&D)

📅 Aug 2019 – Jul 2021 📍 Kraków, Poland

- Built LLM-based system for automated extraction from unstructured financial documents.
- NLP models for investment decision-making on financial instruments.

KEY PUBLICATIONS

A selection of first-author and key contributions. Full list on Google Scholar.

Sendera, Marcin, Lukasz Struski, Kamil Ksiazek, Kryspin Musiol, Jacek Tabor, and Dawid Rymarczyk (2025). **SEMU: Singular Value Decomposition for Efficient Machine Unlearning**. In: *ICML*.

Sendera, Marcin, Minsu Kim, Sarthak Mittal, Pablo Lemos, Luca Scimeca, Jarrid Rector-Brooks, Alexandre Adam, Yoshua Bengio, and Nikolay Malkin (2024). **Improved off-policy training of diffusion samplers**. In: *NeurIPS*.

Sendera, Marcin, Jacek Tabor, Aleksandra Nowak, Andrzej Bedychaj, Massimiliano Patacchiola, Tomasz Trzcinski, Przemyslaw Spurek, and Maciej Zieba (2021). **Non-gaussian gaussian processes for few-shot regression**. In: *NeurIPS*.

SKILLS

Research Expertise

Probabilistic ML Generative Models LLMs
Foundation Models Bayesian Inference
Diffusion Models AI Safety & Alignment
Machine Unlearning Meta-Learning
Fine-tuning Density Estimation Reasoning

Languages & ML Libraries

Python PyTorch JAX TensorFlow
HuggingFace NumPy / SciPy Scikit-learn
Pandas Diffusers LaTeX

Developer Tools

Git/GitHub Docker Slurm

EDUCATION

Ph.D. in Computer Science

Jagiellonian University

📅 2019 – 2026 📍 Kraków, Poland

Thesis: Probabilistic deep learning: from efficient sampling to principled generation.
GPA: 5.00/5.00

M.Sc. in Computer Science

AGH University

📅 2017 – 2019 📍 Kraków, Poland

GPA: 4.46/5.00

B.Eng. in Computer Science

AGH University

📅 2013 – 2017 📍 Kraków, Poland

GPA: 4.28/5.00

GRANTS & AWARDS

- Winner of Witold Lipski Award for Young Computer Scientists (2025)**
- NCN PRELUDIUM Grant (PI)** (Funding: ~140k PLN)
- CIFAR AI Catalyst Grant** (Team Member, "AI Mathematician")
- Best Paper Award Finalist** (WACV 2023)
- Multiple NCN OPUS grants** (scholarships)

REVIEWING

ICML NeurIPS ICLR TMLR
CoLLAs