

Stas Syrota

Ph.D. student working in Deep Learning, Geometry, and Bayesian Inference

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RESEARCH EXPERIENCE

Jan 2025 – Present

Ph.D. Student

DTU Compute (Dept. of Applied Mathematics and Computer Science)
Supervisors: Søren Hauberg (main) and Ole Winther

2023 – 2024

Research Assistant

DTU Compute, Lab of Prof. Søren Hauberg
Investigated Bayesian uncertainty and geometry in deep neural networks focusing on model reliability and identifiability in generative models

EDUCATION

2022 – 2024

M.Sc. in Mathematical Modeling and Computation

Technical University of Denmark (DTU)
Thesis: *Identifiability in Latent Variable Models*. Supervisor: Søren Hauberg

2020 – 2021

Graduate Studies in Statistics

University of Copenhagen
Completed advanced coursework in Probability Theory and Machine Learning before transferring to DTU

2016 – 2020

B.Sc. in Mathematics and Economics

University of Copenhagen
Thesis: *Financial Time Series Prediction Using Statistical and Machine Learning Methods*

PUBLICATIONS

Conference publications
(chronological order)

- Fadel, S., Roy, H., Krämer, N., Zainchkovskyy, Y., **Syrota, S.**, Mahou, A., Ek, C., & Hauberg, S. (2025). Deep variational inference with stochastic projections. The Thirty-ninth Annual Conference on Neural Information Processing Systems
- **Syrota, S.**, Zainchkovskyy, Y., Xi, J., Bloem-Reddy, B., & Hauberg, S. (2025). Identifying Metric Structures of Deep Latent Variable Models. Forty-Second International Conference on Machine Learning (ICML). Vancouver, Canada. July 13-19, 2025
- **Syrota, S.**, Moreno-Muñoz, P. & Hauberg, S. (2024, October). Decoder ensembling for learned latent geometries. In Geometry-grounded Representation Learning and Generative Modeling Workshop (GRaM) at ICML 2024 (pp. 277-285). PMLR

PRESENTATIONS & SPEAKING

- Presentation of "Identifying Metric Structures of Deep Latent Variable Models" paper at **MARS workshop @ Lancaster University** in March 2026
- Presentation of "Identifying Metric Structures of Deep Latent Variable Models" paper at **Copenhagen Causality Lab @ University of Copenhagen** in November 2025

INDUSTRY EXPERIENCE

July 2021 – March 2022

Machine Learning Engineer

Unbox AI, remote

Built search and recommender systems based on SOTA NLP models for a major Scandinavian retailer, improving model accuracy by 15% and driving a 10% increase in web sales

November 2020 – December 2021

Data Scientist

PFA, Copenhagen

Department of AI & Analytics

Developed a Danish Digital Award-winning B2B recommender system that improved retention by 5% and drove 10% growth in new customer value

February 2018 – July 2020

Student Assistant

Danish Central Bank, Copenhagen

Department of Financial Stability (*part time Feb 2018 - July 2020*) and

Department of Research (*full time Feb 2020 - July 2020*)

SKILLS

Programming languages

Python:

- Data processing and analysis tools (sklearn, pandas, numpy, plotly, matplotlib)
- Machine Learning (JAX, PyTorch, PytorchLightning, huggingface ecosystem)
- General software development (APIs and packages)

R:

- Proficient in data analysis using tidyverse family of packages and statistical packages
- Extensive experience with data visualization using the Shiny environment
- Extensive knowledge and theoretical understanding of R's statistical tools

C++ and Rust: Intermediate-level skills acquired through university coursework and hobby projects

SQL: Intermediate level skills needed for Data Science related job responsibilities

Software development tools

Microsoft Azure services, Kubernetes, Docker, Git, GitHub tools for CI/CD

Languages

Ukrainian – mother tongue

English – fluent

Danish – fluent

Russian – fluent