Katsiaryna Haitsiukevich

Doctoral Researcher

I am a Doctoral Researcher at Aalto University making deep learning models more sample-efficient and suitable for practical applications in science and engineering. Throughout my studies, I've conducted several research projects individually as well as in collaboration with an industrial partner. My prior working experience equipped me with strong soft skills in communication and team work. I am highly motivated, eager to learn new concepts and to advance my expertise.

Contact

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Education

2018

MS in Applied Mathematics

Belarusian State University

2017

BS in Actuarial Mathematics

Belarusian State University

Frameworks

- Python
- PyTorch (and other ML libraries)
- Wandb (experiment management)
- C#, .Net

Project Tools

- Git
- Jyputer notebook
- Confluence
- Jira
- Docker

Language

English

Belarusian

Russian

Experience

Nov 2019 - present

Aalto University, School of Science and Technology I Espoo, Finland

Doctoral researcher

Topic: Advances in physics-informed deep learning, supervised by Dr. Alexander Ilin.
GPA: 5 out of 5

Feb 2019 - Nov 2019

EPAM Systems I Minsk, Belarus

Data Scientist

I worked on an NLP project. I was responsible for creating a model training and evaluation pipeline, performing experiments with different types of models and machine learning techniques and preparation of reports and interpretation of results for business users.

Oct 2015 - Feb 2019

CompatibL I Minsk, Belarus

Quantitative Software Engineer

I contributed to development of CompatibL risk platform and collateral optimization engine. I also participated in research on credit risk modelling methodology.

Publications

Haitsiukevich, K., Ilin A. Improved Training of Physics-Informed Neural Networks with Model Ensembles, IJCNN, 2023

Haitsiukevich, K., Ilin A. Learning Trajectories of Hamiltonian Systems with Neural Networks, ICANN, 2022

Haitsiukevich, K., Bergman, S., de Araujo Filho, C., Corona, F., Ilin, A. A Deep Learning Model of Tubular Reactors, INDIN, 2021

Teaching and Supervision

Teaching Assistant at Deep Learning (2020) and Seminar on Deep Learning (2021, 2022)

Co-supervision of research projects conducted by Master-level students.

- "Simulating a reactor with neural networks"
- "Equivariant physics-informed neural networks"

Reference

References Available Upon Request