Gabriela Kadlecová

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EDUCATION

Charles University, Faculty of Mathematics and Physics, Prague

- Ph.D. in Artificial Intelligence *(ongoing)* — Oct 2021 – present
  - Thesis topic: Optimization and surrogate models in AutoML
- Master's in Artificial Intelligence — Oct 2019 – Sep 2021
  - Thesis: Graph neural networks for NAS performance prediction
  - Graduated with honors
- Bachelor's in Computer Science — Oct 2016 – Jun 2019
  - Thesis: Evolutionary optimization of machine learning workflows

PROFESSIONAL AFFILIATIONS & ACTIVITIES

Institute of Computer Science, Czech Academy of Sciences, Prague — Mar 2020 – now
- Position: Research Assistant – Ph.D. training workplace

Machine Learning Lab, University of Freiburg, Freiburg im Breisgau — Jun 2023 – Aug 2023
- Position: Research intern, DAAD Short-Term Grants
  - Focus: Neural architecture search, zero-cost proxies

BISOP – Centre for Modelling of Biological and Social Processes — Apr 2020 – now
- Created a neural network model for vaccine waning – survival analysis
- Collaborated on a multiagent model for COVID-19 spread

NeuronSW, Prague — Jul 2019 – Apr 2020
- ML and IoT startup – predictive analysis of machines based on audio data
- Position: Junior Machine Learning scientist

SELECTED PUBLICATIONS

- Kadlecová, G., Lukasik, J., Pilat, M., Vidnerová, P., Safari, R., & Hutter, F. (2024). Surprisingly Strong Performance Prediction with Neural Graph Features. In Forty-first International Conference on Machine Learning.
- Suchopárová, G., Neruda, R. (2022). Graph Embedding for Neural Architecture Search with Input-Output Information. Auto-ML Conf 2022: Accepted Papers: Late-Breaking Workshop. Baltimore: AutoML Conference, 2022. Link.
- Pilát, M., Suchoparová, G. (2022). Using Graph Neural Networks as Surrogate Models in Genetic Programming. In Proceedings of the Genetic and Evolutionary Computation Conference Companion (pp. 582–585). Association for Computing Machinery. doi: 10.1145/3520304.3529024.

SKILLS

Programming languages
- **Python**
  - PyTorch, TensorFlow, numpy, scikit-learn, pandas
- C++, Bash, C# (intermediate); C, SQL, R (basic)

Technologies and other skills
- Git, wandb, python package management, cluster computing – SLURM, PBS
- Deep learning
  - Semi-supervised learning, graph neural networks
  - Deep reinforcement learning
- Evolutionary algorithms and genetic programming

OTHER EXPERIENCE

- Online experience co-chair at the AutoML conference 2024.
- Presented a neural architecture search hands-on at the AutoML Fall School 2023
- Participated in the AutoML Fall School 2021 and 2022 (member of the hackathon winning teams).
- Teaching at Charles University – 1 semester of introductory Python labs; 1 semester of nature inspired algorithms.
- Received the student grant GAUK – Surrogate Modeling and Graph Neural Networks in Neural Architecture Search.

LANGUAGES

English: CAE certified (level C2), French: DELF certified (level B2). German: conversational.
Japanese: hobby (B1–B2 level).