

Tomáš Chobola

M.Sc. Student · Data Engineering and Analytics · Munich, DE

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EDUCATION

Technical University of Munich

M.Sc. Data Engineering and Analytics.

November 2020–

Czech Technical University in Prague

Bc. Knowledge Engineering. *CERN certified thesis:*

October 2016–July 2020

[Study of light-by-light scattering with the ATLAS Forward Proton \(AFP\) Detector at CERN](#)

The Hong Kong Polytechnic University

Computer Science, Study Abroad.

August 2019–January 2020

EXPERIENCE

eClub Prague

February 2020–December 2020

Conversational AI Researcher. Remote work, 1-2 days/week.

Using TensorFlow and PyTorch to adapt Transformers and other NLP models for the end-of-utterance detection.

Faculty of Information Technology, CTU

July 2020–November 2020

Research Assistant.

Researching and extending the state-of-the-art models for few-shot classification, and implementing them in PyTorch and Tensorflow.

Faculty of Information Technology, CTU

May 2019–August 2019

Research Assistant.

Researching symmetric heterogeneous transfer-learning models with auto-encoders and GANs for image-to-image translation setting, and implementing them in Tensorflow.

Institute of Experimental and Applied Physics, CTU

February 2019–July 2020

Research Assistant.

Applying regression tools (Python, C++), mainly Gaussian Process, and Monte Carlo simulations in analysis of data obtained from the ATLAS experiment. Working closely with the international collaboration of researchers at CERN.

Commerzbank AG, Prague

March 2019–July 2019

Junior Software Specialist. 2-3 days/week.

Carrying out workflow and database improvements with bash and SQL scripting.

PUBLICATIONS

Transfer learning based few-shot classification using optimal transport mapping from preprocessed latent space of backbone neural network. [arXiv:2102.05176](https://arxiv.org/abs/2102.05176).

T. Chobola, D. Vařata and P. Kordík. *35th AAAI Conference on Artificial Intelligence*. Virtual. February 2021.

Unsupervised Latent Space Translation Network. [arXiv:2003.09149](https://arxiv.org/abs/2003.09149).

M. Friedjungová, D. Vařata, **T. Chobola**, M. Jiřina. *In Proceedings of 28th European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning*. Bruges, Belgium. October 2021.

TALKS & PRESENTATIONS

DPG-Frühjahrstagungen (DPG Spring Meetings).

Virtual conference, presenting data analysis of the ATLAS experiment at CERN. March 15, 2021.

AAAI Workshop on Meta-learning with co-hosted Competition.

Virtual conference, contributed talk and poster presentation. February 9, 2021.

GRANTS & AWARDS

AAAI 2021 MetaDL Challenge 2nd Place Prize.

Student Summer Research Program 2020 of FIT CTU in Prague Grant. Support of the image transfer-learning research project.

Student Summer Research Program 2019 of FIT CTU in Prague Grant. Support of the few-shot meta-learning research project.

EXTRACURRICULAR ACTIVITIES

CTU Toastmasters club member. 2019.

Organising the IAESTE Job Fair at CTU in Prague. 2018.

Organising the international symposium Humans in Space and assisting the scientific committee. 2015.

SKILLS

Programming languages

- Working knowledge of C/C++
- Python for scripting, data analysis and machine learning applications and modelling
- Basic knowledge of Java
- Data analysis and visualisation with R
- Query optimisation and database administration with PostgreSQL
- Version control systems (Git)
- Documentation with LaTeX and Markdown
- Unix-based systems knowledge

Languages

- *Czech* – Native
- *English* – Professional working proficiency
- *German* – Elementary

February 21, 2021

Tomáš Chobola

I hereby authorise the use of my personal data in accordance to the GDPR 679/16 – “European regulation on the protection of personal data“.