

Tomasz Korbak

github.com/tomekkorbak • linkedin.com/in/tomaszkorbak/
kaggle.com/tomekkorbak/ • tomasz.korbak@gmail.com

INTERESTS

Deep learning • Probabilistic programming • Natural language processing • Cognitive science • Computational neuroscience • Philosophy of science

SKILLS

Python (data science ecosystem + web frameworks) • PyTorch • Keras • Tensorflow • CUDA • C++ • Java • git • Linux • L^AT_EX

COURSEWORK

- **Computational Psychiatry Summer School**, ETH Zurich, 2017
- **Bayesian Methods in Deep Learning**, Moscow, 2018
- **School of Pioneers** (tech entrepreneurship workshops by Cambridge University Enterprise), Cambridge, UK, 2018

CONTESTS

- Quora Question Pairs (Kaggle, 2016)
- PolEval 2017

INDUSTRY EXPERIENCE

SIGMOIDAL | MACHINE LEARNING ENGINEER

June 2018 - ongoing | Warsaw, Poland

I worked on several NLP projects for external clients managing engineering teams as a technical leader.

SAMSUNG R&D INSTITUTE POLAND | JUNIOR NLP ENGINEER

April 2017 - December 2017 (9 months) | Warsaw, Poland

As a member of the AI team, I was responsible for prototyping and evaluating new deep learning-based solutions, error analysis of production machine learning systems and preparing project/patent proposals. Topics I worked on included conversational systems and representation learning for language and structured knowledge.

INTELICLINIC | PYTHON DEVELOPER

December 2015 - March 2017 (16 months) | Warsaw, Poland

I prototyped sleep staging classifiers, built data processing pipelines and RESTful APIs and mined a large (+50k sleep sessions) dataset of sleep data from multiple sensors (EEG, EMG, pulse oximeter, movement).

WEBINTERPRET | JUNIOR PYTHON DEVELOPER INTERN

July 2015 - September 2015 (3 months) | Warsaw, Poland

I participated in full life cycle of an e-commerce internationalization platform

RESEARCH EXPERIENCE

INSTITUTE OF PHILOSOPHY AND SOCIOLOGY, POLISH ACADEMY OF SCIENCES | PRINCIPAL INVESTIGATOR

November 2016 - ongoing | Warsaw, Poland

I run the project "Formal and computational models of self-organization in cognitive science". The project, supervised by Prof. Marcin Milkowski, is funded (168 000 PLN) by Polish Ministry of Science and Higher Education. Topics I work on include sensory integration and Bayesian models in psychology and neuroscience.

INSTITUTE OF COMPUTER SCIENCE, POLISH ACADEMY OF SCIENCES | RESEARCH ENGINEER

April 2017 - November 2017 (7 months) | Warsaw, Poland

I worked on neural network-based tools for processing of Polish. My major contribution was developing and maintaining treehopper, a PyTorch library for tree-level sentiment labeling. This was part of Clarin-PL project, funded by the European Commission.

EDUCATION

UNIVERSITY OF WARSAW

INTERDISCIPLINARY INDIVIDUAL STUDIES

2012-2019 | Warsaw, Poland

I pursued an individual course of studies and obtained the following degrees:

- BAs in **Philosophy** (2015) with a thesis on modeling complex systems,
- BSc in **Cognitive Science** (2016) with a thesis on sentiment analysis using LSTMs,
- MSc in **Cognitive Science** (expected: 2019) with a thesis on multi-agent reinforcement learning