

ZDENĚK KASNER

PhD Student in Computational Linguistics

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EDUCATION

PhD in Computational Linguistics

Institute of Formal and Applied Linguistics, Faculty of Mathematics and Physics, Charles University

since 10/2019

Prague, Czechia

- thesis: Domain Adaptation for Natural Language Generation
- supervisor: Ondřej Dušek

Master in Artificial Intelligence

Faculty of Electrical Engineering, Czech Technical University in Prague

07/2016 – 06/2019

Prague, Czechia

- thesis: Incorporating Language Models into Non-autoregressive Neural Machine Translation
- dean award & minor degree in Computer Vision

Erasmus+

Faculty of Engineering Science, Katholieke Universiteit Leuven

09/2017 – 02/2018

Leuven, Belgium

- courses from Master of AI

Bachelor in Computer Science

Faculty of Information Technology, CTU in Prague

09/2013 – 06/2016

Prague, Czechia

- thesis: Flow-Based Classification of Devices in Computer Networks
- graduated with honors

WORK EXPERIENCE

Research & Software Development

Robot Perception Group, CIIRC CTU in Prague

01/2019 – 09/2019

Prague, Czechia

Natural language understanding for an automated production line and a collaborative robotic workspace.

Software Development

AI Center, FEE CTU in Prague

07/2016 – 08/2017

Prague, Czechia

Implementing a search engine with intermodal routing for public transport.

Software Development & Research

CESNET

04/2015 – 07/2016

Prague, Czechia

Developing a module for device classification in a high-throughput system for network traffic analysis (NEMEA).

INTERNSHIPS

Research Internship

KDDI Research, Inc.

06/2018 – 09/2018 Saitama, Japan

Developing an augmented reality annotation system for optical see-through head-mounted displays.

PhD Internship

Heriot-Watt University

10/2021 – 12/2021 Edinburgh, UK

Research on natural language generation under supervision of Dr. Ioannis Konstas.

VOLUNTEERING

BEST Prague

Board of European Students of Technology

10/2014 – 05/2019 Prague, Czechia

Communication and cooperation with students of European universities of technology, organizing events (courses, engineering competitions).

SKILLS & KNOWLEDGE

Python

C

C++

Bash

Matlab

Machine Learning

NLP

Computer Vision

Game Theory

Genetic Algorithms

Probability Theory

Optimization

Computer Science

LANGUAGES

Czech

English

French

Dutch



CERTIFICATES

- Certificate of Proficiency in English (C2) – Cambridge Level 3 Certificate in ESOL International

PUBLICATIONS

Conference Proceedings

- **Kasner, Z.**, & Dusek, O. (2022). Neural pipeline for zero-shot data-to-text generation, In *Proceedings of the 60th annual meeting of the association for computational linguistics (volume 1: Long papers)*, Dublin, Ireland, Association for Computational Linguistics.
- **Kasner, Z.**, Mille, S., & Dušek, O. (2021). Text-in-context: Token-level error detection for table-to-text generation, In *Proceedings of the 14th international conference on natural language generation*.
- **Kasner, Z.**, & Dušek, O. (2020a). Data-to-text generation with iterative text editing, In *Proceedings of the 13th international conference on natural language generation*.
- **Kasner, Z.**, & Dušek, O. (2020b). Train hard, finetune easy: Multilingual denoising for RDF-to-text generation, In *Proceedings of the 3rd international workshop on natural language generation from the semantic web (webnlg+)*.
- Dušek, O., & **Kasner, Z.** (2020). Evaluating semantic accuracy of data-to-text generation with natural language inference, In *Proceedings of the 13th international conference on natural language generation*.
- Libovický, J., **Kasner, Z.**, Helcl, J., & Dušek, O. (2020). Expand and filter: CUNI and LMU systems for the WNGT 2020 Duolingo shared task, In *Proceedings of the fourth workshop on neural generation and translation*.

Preprints

- **Kasner, Z.**, Libovický, J., & Helcl, J. (2020). Improving fluency of non-autoregressive machine translation.

TEACHING

Introduction to Linux

Faculty of Mathematics and Physics, Charles University

 02/2022 – 06/2022

 Prague, Czechia

Programming I & Introduction to Algorithms

Faculty of Mathematics and Physics, Charles University

 09/2020 – 02/2021

 Prague, Czechia

RESEARCH INTERESTS


Natural Language Generation

- Domain Adaptation
- Knowledge Graphs
- Commonsense Reasoning

Machine Translation

- Non-autoregressive MT

AWARDS

 Best short paper at INLG 2020 (Dušek and Kasner, 2020)

 Outstanding reviewer at EACL 2021

REFEREES

Ondřej Dušek

 PhD Advisor

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Ioannis Konstas

 PhD Internship Supervisor

 i.konstas@hw.ac.uk

Jindřich Helcl

 Master Thesis Supervisor

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