

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., & Dušek, O. (2022). Neural Pipeline for Zero-Shot Data-to-Text Generation. *Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers), ACL 2022*, 3914–3932.
- Kasner, Z., Mille, S., & Dušek, O. (2021). Text-in-Context: Token-Level Error Detection for Table-to-Text Generation. *Proceedings of the 14th International Conference on Natural Language Generation, INLG 2021*, 259–265.
- Kasner, Z., & Dušek, O. (2020a). Train Hard, Finetune Easy: Multilingual Denoising for RDF-to-text Generation. *Proceedings of the 3rd International Workshop on Natural Language Generation from the Semantic Web (WebNLG+)*, 171–176.
- Kasner, Z., & Dušek, O. (2020b). Data-to-Text Generation with Iterative Text Editing. *Proceedings of the 13th International Conference on Natural Language Generation, INLG 2020*, 60–67.
- Dušek, O., & Kasner, Z. (2020). Evaluating Semantic Accuracy of Data-to-Text Generation with Natural Language Inference. *Proceedings of the 13th International Conference on Natural Language Generation, INLG 2020*, 131–137.
- Libovický, J., Kasner, Z., Helcl, J., & Dušek, O. (2020). Expand and Filter: CUNI and LMU Systems for the WNGT 2020 Duolingo Shared Task. *Proceedings of the Fourth Workshop on Neural Generation and Translation*, 153–160.

Preprints

- Kasner, Z., Libovický, J., & Helcl, J. (2020). Improving Fluency of Non-Autoregressive Machine Translation.

TEACHING

Statistical Dialogue Systems

Faculty of Mathematics and Physics, Charles University

 09/2022 – 02/2023

 Prague, Czechia

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
- Evaluation
- Story Generation
- 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

 helcl@ufal.mff.cuni.cz