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

PhD Internship

Heriot-Watt University

📅 10/2021 – 12/2021 ⚲ Edinburgh, UK

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

DeepLearn

IRDTA

📅 07/2021 ⚲ Las Palmas, Spain

Participanting in a series of lectures and workshops on recent advancements in deep learning.

Research Internship

KDDI Research, Inc.

📅 06/2018 – 09/2018 ⚲ Saitama, Japan

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

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
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). Data-to-Text Generation with Iterative Text Editing. *Proceedings of the 13th International Conference on Natural Language Generation, INLG 2020*, 60–67.
- **Kasner, Z.**, & Dušek, O. (2020b). 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.
- 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.**, Konstas, I., & Dušek, O. (2022). Mind the Labels: Describing Relations in Knowledge Graphs With Pretrained Models.
- **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

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Introduction to Linux
Faculty of Mathematics and Physics, Charles University

📅 02/2022 – 06/2022　　　📍 Prague, Czechia

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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
- ✉️ odusek@ufal.mff.cuni.cz

Ioannis Konstas
- 👤 PhD Internship Supervisor
- ✉️ i.konstas@hw.ac.uk

Jindřich Helcl
- 👤 Master Thesis Supervisor
- ✉️ helcl@ufal.mff.cuni.cz