ZDENĚK KASNER

PhD Student in Computational Linguistics

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📍 Prague, Czechia

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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

Bachelor in Computer Science
Faculty of Information Technology, Czech Technical University in Prague

📅 09/2013 – 06/2016   📍 Prague, Czechia

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

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.

Research Internship
KDDI Research, Inc.

📅 06/2018 – 09/2018   📍 Saitama, Japan

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

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).

STUDY ABROAD

Erasmus+
Katholieke Universiteit Leuven

📅 09/2017 – 02/2018 📍 Leuven, Belgium

- courses from Master of AI

PhD Internship
Heriot-Watt University

📅 10/2021 – 12/2021 📍 Edinburgh, UK

- Interaction Lab
- **supervisor:** 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++
Java   Matlab   Bash

Machine Learning   NLP
Computer Vision   Game Theory
Domain-Independent Planning
Genetic Algorithms   Probability Theory
Optimization   Computer Science

LANGUAGES

Czech ●●●●●
English ●●●●○
French ●●●○○
Dutch ●●○○○

CERTIFICATES

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

PUBLICATIONS

👥 Conference Proceedings

- **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*.
- **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*.

📄 arXiv Preprints

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

TEACHING

Programming I & Introduction to Algorithms
Faculty of Mathematics and Physics, Charles University

📅 09/2020 – 02/2021   📍 Prague, Czechia

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Introduction to Linux
Faculty of Mathematics and Physics, Charles University

📅 02/2022 – 06/2022   📍 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**
- 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