

# 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

### 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

Research in 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

## 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 (C1) – City & Guilds International IESOL + IESOL

## PUBLICATIONS

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### 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*.

### Preprints

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

## RESEARCH INTERESTS

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### Natural Language Generation


- Domain Adaptation
- Knowledge Graphs
- Commonsense Reasoning

### Machine Translation

- Non-autoregressive MT

## AWARDS

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

## REFEREES

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**Mgr. et Mgr. Ondřej Dušek, Ph.D.**

 PhD Advisor

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