

# 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

**Mila – Quebec AI Institute**

📅 02/2023 – 05/2023 📍 Montréal, Canada

Research on autonomous web navigation with LLMs under supervision of Siva Reddy.

### PhD Internship

**Heriot-Watt University**

📅 10/2021 – 12/2021 📍 Edinburgh, UK

Research on natural language generation under supervision of Ioannis Konstas.

### 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 Bash Javascript C C++

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

## SELECTED PUBLICATIONS

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### Conference Proceedings

- **Kasner, Z.**, Garanina, E., Platek, O., & Dusek, O. (2023). TabGenie: A toolkit for table-to-text generation. *Proceedings of the ACL (Volume 3: System Demonstrations)*, 444–455.
- **Kasner, Z.**, Konstas, I., & Dušek, O. (2023). Mind the Labels: Describing Relations in Knowledge Graphs With Pretrained Models. *Proceedings of the EACL*, 2390–2407.
- **Kasner, Z.**, & Dušek, O. (2022). Neural Pipeline for Zero-Shot Data-to-Text Generation. *Proceedings of the ACL (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 INLG, INLG 2021*, 259–265.
- **Kasner, Z.**, & Dušek, O. (2020a). Data-to-Text Generation with Iterative Text Editing. *Proceedings of the INLG, 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 INLG, 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

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### Introduction to Machine Learning with Python

Faculty of Mathematics and Physics, Charles University

 09/2023 – 02/2024

 Prague, Czechia

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### 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

## COURSES

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### DeepLearn

#### IRDTA

 07/2021

 Las Palmas, Spain

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

## RESEARCH INTERESTS

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### Natural Language Generation

- Domain Adaptation
- Evaluation
- Story Generation

### Miscellaneous

- Model interpretability
- Reasoning
- Autonomous web navigation

## ORGANIZATION

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### PracticalD2T Workshop @ INLG 2023

Main organizer

### SIGDIAL & INLG 2023


Local organizer

## AWARDS

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 Outstanding scientific results – Charles University Grant Agency for my personal grant project 2020-22 (honorable mention)

 Outstanding reviewer at EACL 2021

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

## REFEREES

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### Ondřej Dušek

 PhD Advisor

 odusek@ufal.mff.cuni.cz

### Siva Reddy

 PhD Internship Supervisor

 siva.reddy@mila.quebec

### Ioannis Konstas

 PhD Internship Supervisor

 i.konstas@hw.ac.uk

### Jindřich Helcl

 Master Thesis Supervisor

 helcl@ufal.mff.cuni.cz