

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
- **advisor:** 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

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 collaborative LLM agents, advised by Siva Reddy.

PhD Internship

Heriot-Watt University

📅 10/2021 – 12/2021 📍 Edinburgh, UK

Research on data-to-text generation from knowledge graphs, advised by Ioannis Konstas.

Research Internship

KDDI Research, Inc.

📅 06/2018 – 09/2018 📍 Saitama, Japan

Applied research in computer vision, developing an augmented reality annotation system.

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).

CERTIFICATES

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

SKILLS & KNOWLEDGE

Python Bash Javascript C C++

Machine Learning NLP Computer Vision

Computer Science

LANGUAGES

Czech
English
French
Dutch



SELECTED PUBLICATIONS

Conference Proceedings


- **Kasner, Z., & Dušek, O.** (2024). Beyond Traditional Benchmarks: Analyzing Behaviors of Open LLMs on Data-to-Text Generation [To appear]. *Proceedings of the ACL 2024 (Volume 1: Long Papers)*.
- **Lu, X. H., Kasner, Z., & Reddy, S.** (2024). WebLINX: Real-world Website Navigation with Multi-Turn Dialogue [To appear]. *Proceedings of the ICML 2024*.
- **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 2023*, 2390–2407.
- **Kasner, Z., & Dušek, O.** (2022). Neural Pipeline for Zero-Shot Data-to-Text Generation. *Proceedings of the ACL 2022 (Volume 1: Long Papers)*, 3914–3932.
- **Huidrom, R., Dušek, O., Kasner, Z., Ferreira, T. C., & Belz, A.** (2022). Two reproductions of a human-assessed comparative evaluation of a semantic error detection system. *Proceedings of the INLG 2022 (Generation Challenges)*, 52–61.
- **Kasner, Z., Mille, S., & Dušek, O.** (2021). Text-in-Context: Token-Level Error Detection for Table-to-Text Generation. *Proceedings of the INLG 2021*, 259–265.
- **Kasner, Z., & Dušek, O.** (2020a). Data-to-Text Generation with Iterative Text Editing. *Proceedings of the INLG 2020*, 60–67.
- **Kasner, Z., & Dušek, O.** (2020b). Train Hard, Finetune Easy: Multilingual Denoising for RDF-to-text Generation. *Proceedings of the INLG 2020 (WebNLG+ Workshop)*, 171–176.
- **Dušek, O., & Kasner, Z.** (2020). Evaluating Semantic Accuracy of Data-to-Text Generation with Natural Language Inference. *Proceedings of the INLG 2020*, 131–137.

arXiv Preprints

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


TEACHING

Large Language Models

 02/2024 – 06/2024

 MFF UK, Prague, Czechia

Introduction to Machine Learning with Python

 09/2023 – 02/2024


 MFF UK, Prague, Czechia

Introduction to Linux

 02/2022 – 06/2022

 MFF UK, Prague, Czechia

Programming I & Introduction to Algorithms

 09/2020 – 02/2021

 MFF UK, Prague, Czechia

RESEARCH INTERESTS

Natural Language Generation

- Data-to-text Generation
- Evaluation

Miscellaneous

- Low-Resource NLP
- Model interpretability
- Reasoning

ORGANIZER

● **PracticalD2T Workshop @ INLG 2023**
Main organizer

● **SIGDIAL & INLG 2023**
Local organizer

WORKSHOPS

DeepLearn


IRDTA

 07/2021


 Las Palmas, Spain

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

AWARDS

 **Honorable mention** – CU Grant Agency award (2023)

 **Outstanding reviewer** at EACL 2021

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

REFEREES

Ondřej Dušek (Charles University)

 PhD Advisor

 odusek@ufal.mff.cuni.cz

Siva Reddy (Mila - Quebec AI Institute)

 PhD Internship Supervisor

 siva.reddy@mila.quebec

Ioannis Konstas (Heriot-Watt University)

 PhD Internship Supervisor

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