

Jindřich Helcl

Curriculum Vitae

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Education

2014–2022 **PhD.**, *Institute of Formal and Applied Linguistics, Charles University, Prague*

Thesis topic: Non-Autoregressive Neural Machine Translation

2011–2014 **Mgr.**, *Computational Linguistics, Charles University, Prague*

2007–2011 **Bc.**, *Computer Science, Charles University, Prague*

Research Internships

2019 **Microsoft**

Four-month research internship; non-autoregressive models for neural machine translation

2017–2018 **Google**

Four-month research internship; deep learning for NLP

2016–2017 **University of Edinburgh**

Four-month research internship; neural machine translation

Work Experience

2017–present **Research Assistant**, *Institute of Formal and Applied Linguistics, Charles University, Prague*
Research on multimodal translation and improving neural MT with linguistic information.

2020–2022 **Research Associate**, *University of Edinburgh, Edinburgh*

Working on non-autoregressive neural machine translation and on machine translation under low-resource settings.

2016 **Research Fellow**, *Deutsche Forschungszentrum für Künstliche Intelligenz (DFKI), Berlin*

Five-month research fellowship; neural machine translation

2012–2016 **Java/C++ Developer**, *IBM Prague R&D Lab, Prague*

Student position

2014–2015 **Data Analysis Expert**, *Technological agency of the Czech Republic (TAČR), Prague*

Document-level clustering on large data collections.

2011–2012 **PHP developer**, *Intya, s.r.o, Prague*

Development of e-shop applications and other web pages.

Awards

2022 **Steven Krauer Award**, awarded at the CLARIN Annual Conference to the ÚFAL for Ukraine team for the Czech–Ukrainian translation tool built in response to the Russian invasion to Ukraine in 2022 and the subsequent refugee crisis in the Czech Republic, Prague

2017 **Outstanding paper**, for paper “Attention Strategies for Multi-Source Sequence-to-Sequence Learning” on the ACL 2017 conference, Vancouver

List of Relevant Publications

- 2022 Jindřich Helcl, Barry Haddow, Alexandra Birch: Non-Autoregressive Machine Translation: It's Not as Fast as it Seems. In *Proceedings of the 2022 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL)*.
- 2022 Jindřich Helcl: CUNI Non-Autoregressive System for the WMT 22 Efficient Translation Shared Task. In *Proceedings of the Seventh Conference on Machine Translation (WMT)*
- 2021 Pinzen Chen, Jindřich Helcl, Ulrich Germann, Laurie Burchell, Nikolay Bogoychev, Antonio Valerio Miceli Barone, Jonas Waldendorf, Alexandra Birch, Kenneth Heafield: The University of Edinburgh's English-German and English-Hausa submissions to the WMT21 news translation task. In *Proceedings of the Sixth Conference on Machine Translation (WMT)*
- 2020 Zdeněk Kasner, Jindřich Libovický, Jindřich Helcl: Improving Fluency of Non-Autoregressive Neural Machine Translation. Preprint; published online.
- 2018 Jindřich Libovický, Jindřich Helcl: End-to-End Non-Autoregressive Neural Machine Translation with Connectionist Temporal Classification. In *Proceedings of the Conference on Empirical Methods in Natural Language Processing EMNLP 2018*