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.

Selected Bibliography

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)*.
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)*

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2020 Zdeněk Kasner, Jindřich Libovický, Jindřich Helcl: Improving Fluency of Non-Autoregressive Neural Machine Translation. 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*

2018 Jindřich Libovický, Jindřich Helcl, David Mareček: Input Combination Strategies for Multi-Source Transformer Decoder. In *Proceedings of the Third Conference on Machine Translation (WMT)*

2017 Antonio Valerio Miceli Barone, Jindřich Helcl, Rico Sennrich, Barry Haddow and Alexandra Birch: Deep Architectures for Neural Machine Translation. In *Proceedings of the Second Conference on Machine Translation (WMT)*

2017 Jindřich Helcl, Jindřich Libovický: CUNI System for the WMT17 Multimodal Translation Task. In *Proceedings of the Second Conference on Machine Translation (WMT)*

2017 Jindřich Libovický, Jindřich Helcl: Attention Strategies for Multi-Source Sequence-to-Sequence Learning. In *Proceedings of the 55th Annual Meeting of the Association for Computational Linguistics (ACL)*

2017 Jindřich Helcl, Jindřich Libovický: Neural Monkey: An Open-Source Toolkit for Sequence Learning. In *The Prague Bulletin of Mathematical Linguistics*

2016 Jindřich Libovický, Jindřich Helcl, Marek Tlustý, Pavel Pecina and Ondřej Bojar: CUNI System for WMT16 Automatic Post-Editing and Multimodal Translation Tasks. In *Proceedings of the First Conference on Machine Translation (WMT)*

Awards

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