

Jindich 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*
Research on low-resource and non-autoregressive neural MT
- 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 (TAR), 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 Barry Haddow, Rachel Bawden, Antonio Valerio Miceli Barone, Jindich Helcl, Alexandra Birch: Survey of Low-Resource Machine Translation. In *Computational Linguistics, Vol. 48*
- 2022 Jindich 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)*.

- 2018 Jindich Libovický, Jindich 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 Jindich Libovický, Jindich Helcl, David Mareek: Input Combination Strategies for Multi-Source Transformer Decoder. In *Proceedings of the Third Conference on Machine Translation (WMT)*
- 2018 Jindich Helcl, Jindich Libovický, Duan Vari: CUNI System for WMT18 Multimodal Translation Task. In *Proceedings of the Third Conference on Machine Translation (WMT)*
- 2017 Antonio Valerio Miceli Barone, Jindich 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 Jindich Helcl, Jindich Libovický: CUNI System for the WMT17 Multimodal Translation Task. In *Proceedings of the Second Conference on Machine Translation (WMT)*
- 2017 Jindich Libovický, Jindich 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 Jindich Helcl, Jindich Libovický: Neural Monkey: An Open-Source Toolkit for Sequence Learning. In *The Prague Bulletin of Mathematical Linguistics*
- 2016 Jindich Libovický, Jindich 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