

Ruixiang Cui

Lyngbyvej 2, Copenhagen 2100, Denmark

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EDUCATION

University of Copenhagen

PhD in Computer Science, Natural Language Processing

Supervisors: Daniel Hershcovich, Anders Søgaard

Jan. 2021 - June 2024 (expected)

University of Copenhagen

MSc in IT and Cognition

2018-2020

Jilin University

BA in Hispanic Philology

2014-2018

ACADEMIC STAYS

Stanford University

Guest Researcher

Host: Christopher Potts, Stanford NLP Group

Sept. 2023 - Nov. 2023

Complutense University of Madrid

Exchange Program

2016 - 2017

WORK EXPERIENCE

Microsoft Research

Research Intern

Jan. 2023 - June 2023

- Worked on developing multilingual large language models in the Natural Language Computing (NLC) group.

Industrial and Commercial Bank of China

Data Analyst Intern

June 2016 - Sept. 2016

- Assisted building information extraction models for letter of credit transaction. Wrote APIs in Python to extract numerical data from financial and commercial documents.
- Used Excel to organize and analyze commercial invoices and bills of lading.

RESEARCH INTERESTS

Interpretability and analysis of language models, semantic parsing, benchmarking/evaluation, natural language inference, multilinguality, knowledge-base question answering, dialogue system.

PUBLICATIONS

- [1] **Ruixiang Cui**, Seolhwa Lee, Daniel Hershcovich, Anders Søgaard. 2022. *What does the Failure to Reason with “Respectively” in Zero/Few-Shot Settings Tell Us about Language Models?*. In submission.
- [2] Nikolaus Schrack, **Ruixiang Cui**, Hugo A. López, Daniel Hershcovich. 2022. *Can AMR Assist Legal and Logical Reasoning?*. Findings of Conference on Empirical Methods in Natural Language Processing (EMNLP).
- [3] **Ruixiang Cui**, Rahul Aralikatte, Heather Lent, Daniel Hershcovich. 2022. *Compositional Generalization in Multilingual Semantic Parsing over Wikidata*. Transactions of the Association for Computational Linguistics (TACL, oral presentation at EMNLP).

- [4] **Ruixiang Cui**, Daniel Hershcovich, Anders Søgaard. 2022. *Generalized Quantifiers as a Source of Error in Multilingual NLU Benchmarks*. North American Chapter of the Association for Computational Linguistics (NAACL, oral).
- [5] Stephanie Brandl, **Ruixiang Cui**, Anders Søgaard. 2022. *How Conservative are Language Models? Adapting to the Introduction of Gender-Neutral Pronouns*. North American Chapter of the Association for Computational Linguistics (NAACL).
- [6] Daniel Hershcovich, Stella Frank, Heather Lent, Miryam de Lhoneux, Mostafa Abdou, Stephanie Brandl, Emanuele Bugliarello, Laura Cabello Piqueras, Ilias Chalkidis, **Ruixiang Cui**, Constanza Fierro, Katerina Margatina, Phillip Rust, Anders Søgaard. 2022. *Challenges and Strategies in Cross-Cultural NLP*. Annual Meeting of the Association for Computational Linguistics (ACL).
- [7] **Ruixiang Cui**, Daniel Hershcovich. 2021. *Great Service! Fine-grained Parsing of Implicit Arguments*. International Conference on Parsing Technologies (IWPT).
- [8] **Ruixiang Cui**, Daniel Hershcovich. 2021. *Meaning Representation of Numeric Fused-Heads in UCCA*. ACL Workshop on Understanding Implicit and Underspecified Language.
- [9] **Ruixiang Cui**, Daniel Hershcovich. 2020. *Refining Implicit Argument Annotation for UCCA*. COLING Workshop on Designing Meaning Representations.
- [10] Ofir Arviv, **Ruixiang Cui**, Daniel Hershcovich. 2020. *HUJI-KU at MRP 2020: Two Transition-based Neural Parsers*. CoNLL Shared Task on Cross-Framework Meaning Representation Parsing.

SKILLS

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| Programming Languages | Python, Java, SQL, SPARQL, LaTeX, Visual Basic, Perl |
| Frameworks and Tools | PyTorch, TensorFlow, Keras, SciPy, Scikit-learn, NumPy, Pandas, Matplotlib, NLTK, OpenCV, Git, grep, Excel, Tableau |
| Natural Languages | Mandarin Chinese (Native), English (Full professional), Spanish (Professional), Danish (Limited working), Portuguese (Limited working), Italian (Elementary) |

HONORS & AWARDS

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|---|------|
| Excellent Student Leader & Second Prize Scholarship | 2016 |
| First Prize Scholarship | 2015 |

TEACHING

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|---|------|
| Natural Language Processing, University of Copenhagen | 2022 |
| Data Science (Machine Learning), University of Copenhagen | 2021 |
| Data Science (Database Design), University of Copenhagen | 2021 |
| Spanish Grammar, Jilin University | 2018 |

SUMMER & WINTER SCHOOLS

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| University of Oxford | Aug. 2022 |
| Machine Learning Summer School | |

HOBBIES

Spanish Guitar, Russian Literature, Brazilian Music, Electronic Music Producer, World Heritage Traveller