

# Ruixiang Cui

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## EDUCATION

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### 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

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### Stanford University

Guest Researcher

Host: Christopher Potts, Stanford NLP Group

*Sept. 2023 - Nov. 2023*

### Complutense University of Madrid

Exchange Program

*2016 - 2017*

## WORK EXPERIENCE

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### Microsoft Research

*Research Intern*

*Jan. 2023 - June 2023*

- Worked on building a human-centric benchmark for large language models such as ChatGPT and GPT4.

### Industrial and Commercial Bank of China

*Data Analyst Intern*

*June 2016 - Sept. 2016*

- Assisted in 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

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

## PUBLICATIONS

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- [1] Wanjun Zhong\*, **Ruixiang Cui\***, Yiduo Guo, Yaobo Liang, Shuai Lu, Yanlin Wang, Amin Saied, Weizhu Chen, Nan Duan. 2023. *AGIEval: A Human-Centric Benchmark for Evaluating Foundation Models*. arXiv.
- [2] **Ruixiang Cui**, Seolhwa Lee, Daniel Hershcovich, Anders Søgaard. 2023. *What does the Failure to Reason with “Respectively” in Zero/Few-Shot Settings Tell Us about Language Models?*. Annual Meeting of the Association for Computational Linguistics (ACL).
- [3] 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).

- [4] **Ruixiang Cui**, Rahul Aralikkatte, 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).
- [5] **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).
- [6] 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).
- [7] 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).
- [8] **Ruixiang Cui**, Daniel Hershcovich. 2021. *Great Service! Fine-grained Parsing of Implicit Arguments*. International Conference on Parsing Technologies (IWPT).
- [9] **Ruixiang Cui**, Daniel Hershcovich. 2021. *Meaning Representation of Numeric Fused-Heads in UCCA*. ACL Workshop on Understanding Implicit and Underspecified Language.
- [10] **Ruixiang Cui**, Daniel Hershcovich. 2020. *Refining Implicit Argument Annotation for UCCA*. COLING Workshop on Designing Meaning Representations.
- [11] 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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<b>Programming Languages</b>	Python, Java, SQL, SPARQL, LaTeX, Visual Basic, Perl
<b>Frameworks and Tools</b>	PyTorch, TensorFlow, Keras, SciPy, Scikit-learn, NumPy, Pandas, Matplotlib, NLTK, OpenCV, Git, grep, Excel, Tableau
<b>Natural Languages</b>	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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<b>University of Oxford</b>	Aug. 2022
Machine Learning Summer School	

## HOBBIES

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