

# Ruixiang Cui

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## RESEARCH INTERESTS

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benchmarking and evaluation of large language models, cross-lingual and cross-cultural analysis, compositional generalization, knowledge-base semantic parsing, and natural language inference.

## EDUCATION

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### University of Copenhagen

2021-Present (June 2024)

PhD in Computer Science, Natural Language Processing

Advisors: Daniel Hershcovich, Anders Søgaard

### University of Copenhagen

2018-2020

MSc in IT and Cognition

### Complutense University of Madrid

2016-2017

Exchange Student

### Jilin University

2014-2018

BA in Hispanic Philology

## EXPERIENCE

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### Stanford University

09/2023-11/2023

Visiting Researcher

- Visit Stanford NLP Group for a research stay with Christopher Potts

### Microsoft Research

01/2023-06/2023

Research Intern

- Led to establishing *AGTEval*, a bilingual benchmark for testing the general abilities of large language models (mainly GPT-4) in human exams. The benchmark has been adopted for model evaluation by companies such as Bytedance, Tencent and Baidu.
- Worked on building an automatic long-content generation system with GPT-4.

### Industrial and Commercial Bank of China

06/2016-09/2016

Data Analyst Intern

- Assisted in building an information extraction system for letters of credit transactions. Created APIs to extract numerical data from financial and commercial documents in Python.

## 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