

Ruixiang Cui

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RESEARCH INTERESTS

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

EDUCATION

University of Copenhagen

2021-Present (07/2024)

PhD in Computer Science, Natural Language Processing

Advisors: Daniel Hershcovich, Anders Søgaard

Stanford University

09/2023-11/2023

Visiting Researcher, Stanford NLP Group

University of Copenhagen

2018-2020

MSc in IT and Cognition

Jilin University; Complutense University of Madrid

2014-2018

BA in Hispanic Philology

EXPERIENCE

Microsoft Research

01/2023-06/2023

Research Intern

- Led *AGTEval*, a bilingual benchmark designed to assess the general capabilities of large language models, primarily GPT-4, in human examination scenarios. Companies such as Meta, TikTok, and Mistral have adopted this evaluation standard for model assessment.
- Devised and led the creation of a human workflow platform utilizing GPT-4 for generating long-form content in AI + HCI situations, offering a customizable and scalable solution.

Industrial and Commercial Bank of China

06/2016-09/2016

Data Analyst Intern

- Developed an information extraction system for letters of credit transactions, establishing a pipeline to extract numerical data from various financial and commercial documents efficiently.

PUBLICATIONS

- [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] Yong Cao, Yova Kementchedjhieva, **Ruixiang Cui**, Antonia Karamolegkou, Li Zhou, Megan Dare, Lucia Donatelli, Daniel Hershcovich. 2023. *Cultural Adaptation of Recipes*. Transactions of the Association for Computational Linguistics (TACL).
- [4] 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).

- [5] **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).
- [6] **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).
- [7] 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).
- [8] 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).
- [9] **Ruixiang Cui**, Daniel Hershcovich. 2021. *Great Service! Fine-grained Parsing of Implicit Arguments*. International Conference on Parsing Technologies (IWPT).
- [10] **Ruixiang Cui**, Daniel Hershcovich. 2021. *Meaning Representation of Numeric Fused-Heads in UCCA*. ACL Workshop on Understanding Implicit and Underspecified Language.
- [11] **Ruixiang Cui**, Daniel Hershcovich. 2020. *Refining Implicit Argument Annotation for UCCA*. COLING Workshop on Designing Meaning Representations.
- [12] 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

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

Excellent Internship Award	Microsoft Research 2023
Excellent Student Leader & Second Prize Scholarship	Jilin University 2016
First Prize Scholarship	Jilin University 2015

TEACHING

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

University of Oxford	Aug. 2022
Machine Learning Summer School	

HOBBIES

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