Ruixiang Cui

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RESEARCH INTERESTS

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

EDUCATION

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

Jilin University; Complutense University of Madrid   *2014-2018*
BA in Hispanic Philology

EXPERIENCE

Stanford University   *09/2023-11/2023*
Visiting Researcher

· Conduct research in interpretability method of large language models with Christopher Potts at Stanford NLP Group.

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, Bytedance, and Tencent 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 specifically 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 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).

[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 Univeristy	*2016*
First Prize Scholarship	Jilin Univeristy	*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