# Ruixiang Cui

E-mail: cuirx@outlook.com  $\diamond$  Homepage: ruixiangcui.github.io

Google Scholar: 3M-1U2wAAAAJ > GitHub: ruixiangcui > LinkedIn: ruixiang-cui

#### **EXPERTISE**

Large language models (training, instruction tuning, prompt engineering, large-scale data generation, processing and evaluation), deep learning-based NLP frameworks (PyTorch, TensorFlow), cloud computing (Azure, GCP, AWS), SQL databases, semantic parsing

#### **EDUCATION**

# University of Copenhagen

2021-2024

PhD in Computer Science, Natural Language Processing

Advisors: Daniel Hershcovich, Anders Søgaard

Thesis title: Evaluating Language Models - From Multilingual Compositional Semantic Parsing to Human-level Complex Reasoning

Stanford University

2023

Visiting Researcher, Stanford NLP Group Topic: Mechanistic interpretability of LLMs

University of Oxford

2022

Machine Learning Summer School

Topic: Multimodal machine learning applications

University of Copenhagen

2018-2020

MSc in IT and Cognition

Key courses: Computational Cognitive Science, Vision and Image Processing, NLP

Jilin University & Complutense University of Madrid

2014-2018

BA in Hispanic Philology, minor in Computational Linguistics

## EXPERIENCE

## Microsoft Research

01/2023-06/2023

Research Intern

- · Spearheaded AGIEval, a canonical benchmark for assessing complex reasoning capabilities of LLMs, adopted by more than 20 major LLM companies. Designed and executed data management pipelines, encompassing data collection, refinement, and analysis.
- · Co-devised a human workflow platform with LLM for generating consistent long-form content such as talks and presentations in professional situations, offering a customizable and scalable solution.

## University of Copenhagen

09/2021-12/2022

Teaching Assistant

· Taught and mentored 80 students across three courses: Natural Language Processing (MSc), Machine Learning (BSc) and Database Design (BSc).

## Industrial and Commercial Bank of China

06/2016-09/2016

Data Analyst Intern

· Crafted and deployed an information extraction system for letters of credit transactions. This system significantly streamlined data processing and increased efficiency by 100% in financial operations.

# **SKILLS**

Programming Languages Frameworks and Tools

Languages

Python, Java, SQL, SPARQL, LaTeX, Visual Basic, Perl PvTorch, TensorFlow, Keras, SciPv, Scikit-learn, NumPv, Pandas,

Matplotlib, NLTK, OpenCV, Git, grep, Excel, Tableau Mandarin Chinese (Native), English (Full professional), Spanish (Professional), Danish (Limited working), Portuguese (Limited working), Italian (Elementary)

## HONORS & AWARDS

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

## SELECTED PUBLICATIONS (CITATIONS: 355; H-INDEX: 7)

- [1] Wanjun Zhong\*, **Ruixiang Cui**\*, Yiduo Guo, Yaobo Liang, Shuai Lu, Yanlin Wang, Amin Saied, Weizhu Chen, Nan Duan. 2024. *AGIEval: A Human-Centric Benchmark for Evaluating Foundation Models*. Findings of North American Chapter of the Association for Computational Linguistics (NAACL).
- [2] Yong Cao, Yova Kementchedjhieva, **Ruixiang Cui**, Antonia Karamolegkou, Li Zhou, Megan Dare, Lucia Donatelli, Daniel Hershcovich. 2024. *Cultural Adaptation of Recipes*. Transactions of the Association for Computational Linguistics (TACL).
- [3] 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).
- [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).

## **SERVICE**

Reviewer: NeurIPS, ACL, EMNLP, NAACL, CoNNL, \*SEM, AmericasNLP

## **HOBBIES**