

Ruixiang Cui

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EDUCATION

University of Copenhagen

Jan. 2021 - Present

PhD in Computer Science, Natural Language Processing
Supervisors: Daniel Hershcovich, Anders Søgaard

University of Copenhagen

2018-2020

MSc in IT and Cognition

Jilin University

2014-2018

BA in Hispanic Philology

ACADEMIC STAYS

Stanford University

Sept. 2023 - Nov. 2023

Visiting Researcher

Host: Christopher Potts, Stanford NLP Group

Complutense University of Madrid

2016 - 2017

Exchange Program

RESEARCH INTERESTS

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

PUBLICATIONS

- [1] **Ruixiang Cui**, Seolhwa Lee, Daniel Hershcovich, Anders Søgaard. 2022. *Cumulative Reading as a Testbed for Compositional Language Understanding*. WIP.
- [2] 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).
- [3] **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, to be presented at EMNLP).
- [4] **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).
- [5] 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).
- [6] 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).

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

WORK EXPERIENCE

Industrial and Commercial Bank of China

June 2016 - Sept. 2016

Data Analyst Intern

- Assisted 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.

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 Student Leader & Second Prize Scholarship

2016

First Prize Scholarship

2015

TEACHING

Natural Language Processing, University of Copenhagen

2022

Introduction to Machine Learning, University of Copenhagen

2021

Introduction to 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