

# Ruixiang Cui

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## EDUCATION

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### 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

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### Stanford University

Mar. 2023 - May 2023

Visiting Researcher

Host: Christopher Potts, Stanford NLP Group

### Complutense University of Madrid

2016 - 2017

Exchange Program

## RESEARCH INTERESTS

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

## PUBLICATIONS

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- [1] **Ruixiang Cui**, Seolhwa Lee, Daniel Hershcovich, Anders Søgaard. 2022. *Cumulative Reading as a Testbed for Compositional Language Understanding*. WIP.
- [2] Nikolaus Alexander Schrack, **Ruixiang Cui**, Hugo Andrés 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

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### 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

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### 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

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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

Introduction to Machine Learning, University of Copenhagen

2021

Introduction to Database Design, University of Copenhagen

2021

Spanish Grammar, Jilin University

2018

## SUMMER & WINTER SCHOOLS

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### University of Oxford

Aug. 2022

Machine Learning Summer School

## HOBBIES

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