

# Chenxi Whitehouse

APPLIED RESEARCH SCIENTIST · NLP · AMAZON AGI

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## Professional Experience

### RESEARCH

- 2024 **Applied Research Scientist, Amazon AGI**, Cambridge, UK
- 2024 **Postdoc Research Associate, University of Cambridge**, Cambridge, UK
- 2023 **Research Intern, Google DeepMind**, Amsterdam, Netherlands
- 2023 **Research Assistant, Mohamed Bin Zayed University of Artificial Intelligence (MBZUAI)**, Remote
- 2022 **Research Intern, Amazon**, Alexa AI, Cambridge, UK
- 2021 **Research Intern, Huawei**, Noah's Ark Lab, London, UK

### ENGINEERING

- 2021-2024 **Machine Learning Engineer**, Replicate AI, Remote
- 2019-2020 **Software Engineer**, HP Inc, London, UK
- 2018 **Software Engineer Intern**, Siemens AG, Nuremberg, Germany

## Education

### City, University of London

London, UK

#### PHD IN COMPUTER SCIENCE, NATURAL LANGUAGE PROCESSING

2020 - 2023

- Thesis: Towards Knowledge-Grounded Natural Language Understanding and Generation.
- Research Focus: Knowledge-intensive NLP, Multilingual NLP

### University College London & University of Erlangen-Nuremberg

London, UK & Erlangen, Germany

#### MSC ELECTRICAL ENGINEERING & SIGNAL PROCESSING

2015 - 2018

### Xi'an Jiaotong University

Xi'an, China

#### BSC INFORMATION & COMPUTER ENGINEERING

2011 - 2015

## Selected Publications

### PUBLISHED

1. Zhangdie Yuan, **Chenxi Whitehouse**<sup>†</sup>, Eric Chamoun<sup>†</sup>, Rami Aly<sup>†</sup>, Andreas Vlachos. “PRObELM: Plausibility Ranking Evaluation for Language Models”. In *First Conference on Language Modeling: **CoLM 2024***. [†Equal Contribution]
2. **Chenxi Whitehouse**, Fantine Huot, Jasmijn Bastings, Mostafa Dehghani, Chu-Cheng Lin, and Mirella Lapata. “Low-Rank Adaptation for Multilingual Summarisation: An Empirical Study”. In *Findings of the Association for Computational Linguistics: **NAACL 2024***. (Work conducted as research intern at Google DeepMind)
3. Yuxia Wang, Jonibek Mansurov, Petar Ivanov, Jinyan Su, Artem Shelmanov, Akim Tsvigun, **Chenxi Whitehouse**, Osama Mohammed Afzal, Tarek Mahmoud, Alham Fikri Aji, and Preslav Nakov. “M4: Multi-generator, Multi-domain, and Multilingual Black-Box Machine-Generated Text Detection”. In *Proceedings of the 18th Conference of the European Chapter of the Association for Computational Linguistics: **EACL 2024***. (Best Resource Paper Award)
4. **Chenxi Whitehouse**, Monojit Choudhury, and Alham Fikri Aji. “LLM-powered Data Augmentation for Enhanced Cross-lingual Performance”. In *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing: **EMNLP 2023***. (Work conducted as visiting researcher at MBZUAI)
5. **Chenxi Whitehouse**, Clara Vania, Alham Fikri Aji, Christos Christodoulopoulos, and Andrea Pierleoni. “WebIE: Faithful and Robust Information Extraction on the Web”. In *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics: **ACL 2023***. (Work conducted as research intern at Amazon)

6. **Chenxi Whitehouse**, Tillman Weyde, and Pranava Madhyastha. “Towards a Unified Model for Generating Answers and Explanations in Visual Question Answering”. In: *Findings of the Association for Computational Linguistics: **EACL 2023***.
7. **Chenxi Whitehouse**, Fenia Christopoulou, and Ignacio Iacobacci. “EntityCS: Improving Zero-Shot Cross-lingual Transfer with Entity-Centric Code Switching”. In: *Findings of the Association for Computational Linguistics: **EMNLP 2022***. (Work conducted as research intern at Huawei)
8. **Chenxi Whitehouse**, Tillman Weyde, Pranava Madhyastha, and Nikos Komninos. “Evaluation of Fake News Detection with Knowledge-Enhanced Language Models”. In: *Proceedings of the Sixteenth International AAAI Conference on Web and Social Media: **AAAI-ICWSM 2022***.

#### PREPRINT

9. Chu-Cheng Lin, Xinyi Wang, Jonathan H. Clark, Yun Zhu, Han Lu, **Chenxi Whitehouse**, and Hongkun Yu. “Inducing Generalization across Languages and Tasks using Featurized Low-Rank Mixtures”. (Work conducted as research intern at Google DeepMind)
10. David Romero, Chenyang Lyu, Haryo Akbarianto Wibowo, ..., **Chenxi Whitehouse**, ..., Tamar Solorio, and Alham Fikri Aji. “CVQA: Culturally-diverse Multilingual Visual Question Answering Benchmark”. [Submitted to NeurIPS 2024]
11. Holy Lovenia, Rahmad Mahendra, Salsabil Maulana Akbar, ..., **Chenxi Whitehouse**, ..., and Samuel Cahyawijaya. “SEA-Crowd: A Multilingual Multimodal Data Hub and Benchmark Suite for Southeast Asian Languages”. [Submitted to ARR]

#### Additional Experiences and Awards

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- 2024 **Seventh FEVER Workshop Organisation**, co-located with EMNLP 2024, Miami, Florida
- 2024 **SemEval-2024 Task-8 Organisation**, co-located with NAACL 2024, Mexico City, Mexico
- 2023 **EMNLP 2023 Student Volunteer**, Singapore
- 2022 **EMNLP 2022 Student Volunteer**, Abu Dhabi
- 2022 **Lisbon Machine Learning School**, Instituto Superior Técnico, with Google Scholarship
- 2022 **Oxford Machine Learning Summer School**, University of Oxford
- 2020-2023 **PhD Studentship**, City, University of London
- 2016-2017 **Erasmus Scholarship**, University College London
- 2012-2015 **Outstanding Student Scholarship**, Xi'an Jiaotong University