Chenxi Whitehouse

RESEARCH SCIENTIST · NLP · LLM · FAIR AT META

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Summary

Research Scientist specializing in Natural Language Processing and Large Language Models. Currently at Meta FAIR, leading projects with in the Alignment pillar on Post-training and Reasoning, with a focus on Reinforcement Learning, LLM-as-a-Judge, Generative Reward Modeling, and Self/Co-Improvement AI.

Professional Experience

RESEARCH

2024-2026   **Research Scientist, Meta FAIR**, London, UK
- Working at FAIR Alignment on Reasoning, Self/Co-Improvement (for AI Co-scientist).
- Focusing on Reinforcement Learning, Thinking LLM-judges, and Generative Reward Models.
- Worked on production for post-training models to improve Instruction Hierarchy and Instruction Following.

2023   **Research Intern, Google DeepMind**, Amsterdam, Netherlands
- Worked on Parameter Efficient Fine-tuning (LoRA) for planning and summarization.

2022   **Research Intern, Amazon AGI**, Cambridge, UK

2021   **Research Intern, Huawei**, Noah's Ark Lab, London, UK

ENGINEERING

2021-2024   **Machine Learning Engineer**, Cloudflare (Replicate), Part-time

2018-2020   **Software Engineer**, Inpixon, Berlin, Germany & HP Inc, London, UK

Education

University of Cambridge   *Cambridge, UK*
POSTDOC RESEARCH ASSOCIATE IN NATURAL LANGUAGE PROCESSING   *2024*

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

1. **Chenxi Whitehouse**[†], Swarnadeep Saha[†], Ilia Kulikov, Ping Yu, ..., and Jason Weston. "RLLM: Unified Post-Training via On-Policy-Trained Language Model as a Reward Model". (2025, *work conducted at Meta FAIR*)

2. **Chenxi Whitehouse**, Tianlu Wang, Ping Yu, Xian Li, Jason Weston, Ilia Kulikov, and Swarnadeep Saha. "J1: Incentivizing Thinking in LLM-as-a-Judge via Reinforcement Learning". In *Proceedings of the The Fourteenth International Conference on Learning Representations: **ICLR 2026***.

3. Shashwat Goel, Rishi Hazra, ..., Yoram Bachrach, Jonas Geiping, and **Chenxi Whitehouse**. "Training AI Co-Scientists using Rubric Rewards". (2025, *work conducted at Meta MSL*)

4. **Chenxi Whitehouse**[†], Sebastian Ruder[†], ..., Paco Guzmán. "MENLO: From Preferences to Proficiency – Evaluating and Modeling Native-like Quality Across 47 Languages via RL". In *Proceedings of the The Fourteenth International Conference on Learning Representations: **ICLR 2026***.

5. William F. Shen, Xinchi Qiu, **Chenxi Whitehouse**, ..., Akhil Mathur, Ilias Leontiadis. "Rethinking Rubric Generation for Improving LLM Judge and Reward Modeling for Open-ended Tasks". (Submitted to ICML 2026)

6. Bingchen Zhao, Jenny Zhang, **Chenxi Whitehouse**, Minqi Jiang, ..., Yoram Bachrach. "APRES: An Agentic Paper Revision and Evaluation System". (2025, *work conducted at Meta MSL*)

7. Zhangdie Yuan, **Chenxi Whitehouse**, Eric Chamoun, Rami Aly, and Andreas Vlachos. "PRobELM: Plausibility Ranking Evaluation for Language Models". In *First Conference on Language Modeling: **CoLM 2024***.

8. **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**)*

9. 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**)

10. 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". (2024, *Work conducted as research intern at **Google DeepMind**)*

11. **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)*

12. **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 Linguistic: **ACL 2023***. *(Work conducted as research intern at Amazon)*

13. **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***.

14. **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)*

15. **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***.

Awards & Honors

2024	**Best Resource Paper Award**: EACL 2024
2020-2023	**PhD Studentship**: City, University of London
2016-2017	**Erasmus Scholarship**: University College London
2012-2015	**Outstanding Student Scholarship**: Xi'an Jiaotong University

Professional Service

2025	**Diversity and Inclusion Chair**: EMNLP 2025
2024	**Area Chair**: COLING 2025
2024-2025	**Workshop Organisation**: FEVER @ EACL 2026, FEVER @ ACL 2025, FEVER @ EMNLP 2024
2022-2025	**Reviewer**: ACL, EMNLP, NeurIPS, ICLR, CoLM