WEI ZHAO

University of Aberdeen, King's College Aberdeen AB24 3FX, UK

✉ wei.zhao@abdn.ac.uk | 🏠 https://andyweizhao.github.io/ | 🐦 https://scholar.google.com/citations?user=vQgXoPUAAAAJ

Research Experience

University of Aberdeen *Scotland*
PERMANENT LECTURER (=ASSISTANT PROF.) IN NLP AT THE COMPUTING SCIENCE DEPARTMENT *since 01/2024*
- Leading the WeNLP4Science Research Group

Heidelberg University *Germany*
LECTURER IN NLP AT THE INSTITUTE FOR COMPUTATIONAL LINGUISTICS *since 10/2024*
- Invited by Katja Markert since 10/2025

Heidelberg Institute for Theoretical Studies *Germany*
POSTDOC IN NLP AT THE HITS LAB *01/2022 – 12/2023*
- Invited by Michael Strube

Heidelberg University *Germany*
POSTDOC IN GEOMETRIC MACHINE LEARNING AT THE GEOMETRY + DYNAMICS RESEARCH STATION *03/2022 – 12/2023*
- Advisor: Anna Wienhard

University of Copenhagen *Denmark*
PHD INTERN AT THE COPENLU RESEARCH GROUP *01/2020 – 02/2020*
- Advisor: Isabelle Augenstein

University of Mannheim *Germany*
PHD INTERN AT THE DATA AND WEB SCIENCE GROUP *09/2019 – 11/2019*
- Advisor: Goran Glavaš

Technical University of Darmstadt *Germany*
PHD STUDENT IN NLP AT THE AIPHES RESEARCH TRAINING GROUP *09/2018 – 12/2022*
- Advisor: Steffen Eger
- Dissertation: On the Principles of Evaluation for Natural Language Generation

Nanyang Technological University *Singapore*
RESEARCH INTERN IN NLP AT THE COMPUTATIONAL INTELLIGENCE LAB *07/2018 – 08/2018*
- Advisor: Erik Cambria

Research Projects

2025	**Collaborative Scientific Research and Discovery with AI**, Aberdeen Research Catalyst Grant, PI
2025–2026	**Automatic Induction of Oxford English Dictionary Updates**, OpenAI Researcher Access Program, PI
2025–2026	**Evaluation of Gemma 3 as a Multimodal Sign-to-Spoken Translation Model**, Google Cloud, PI
2024–2025	**Al-ʿĀmīyah (Colloquial Arabic) and Generative AI – a snapshot of its emerging text-to-text abilities**, Royal Society Edinburgh, Co-I
2024–2025	**Temporal Evaluation for PaliGemma in Visual Question Answering**, Google Cloud, PI
2022–2023	**Languages Across Time and Space**, Young Marsilius Fellowship, Heidelberg University
2022–2023	**Geometry and Representation Learning**, Postdoc project, Klaus Tschira Foundation
2020	**Multi3Generation: Multi-task, Multilingual, Multi-modal Language Generation**, Short-Term Scientific Mission, COST Action
2018–2021	**AIPHES: Adaptive Preparation of Information from Heterogeneous Sources**, PhD project, German Research Foundation

Academic Education

Technical University of Darmstadt *Germany*
PHD IN NATURAL LANGUAGE PROCESSING

University of Chinese Academy of Sciences *China*
MASTER IN COMPUTING SCIENCE

Fudan University *China*
BACHELOR IN LINGUITICS AND COMPUTING SCIENCE

Other Training Activities

2025	**Early Career Researcher Development**, University of Aberdeen
2024	**Deep Dive Session on the Profile of an ERC Candidate**, University of Aberdeen
2024	**EU Horizon Europe-Funding Opportunities in Pillar II**, University of Aberdeen
2024	**Advance HE Fellowship**, University of Aberdeen
2022	**Machine Learning Summer School (MLSS)**, Max Planck Institute in Tübingen
2019	**Athens Natural Language Processing Summer School (AthenNLP)**, NCSR-Demokritos in Athens, Greece

Awards

10/2025	**TMLR J2C Certification (10% of accepted TMLR papers)**, Normed Spaces for Graph Embedding
04/2025	**NAACL Outstanding Paper Award**, How Good Are LLMs for Literary Translation, Really? Literary Translation Evaluation with Humans and LLMs
2019	**NAACL Outstanding Reviewer Award**,

Fellowships and Grants

2025–2026	**Computing Grant**, Google Cloud	*$10,000, PI*
2025	**Sponsorship**, Artificial Intelligence Journal	*$2,000, PI*
2025	**Research Catalyst Funding**, University of Aberdeen	*£10,000, PI*
2025–2026	**OpenAI Researcher Access Program**, OpenAI	*$1,000, PI*
2024–2025	**Computing Grant**, Google Cloud	*$5,000, PI*
2024–2025	**Research Collaboration Grant**, Royal Society of Edinburgh	*£10,000, Co-I*
2024	**Starting Grant**, University of Aberdeen	*£5,000*
2022–2023	**Young Marsilius Fellowship**, Universität Heidelberg	*€5,000*
2022–2023	**Postdoctoral Funding**, Klaus Tschira Foundation	
2020	**Short-Term Scientific Mission**, COST Action (CA18231)	*€3,500*
2018–2021	**PhD Funding (AIPHES-GRK)**, German Research Foundation (DFG)	
2017–2019	**Travel Grants**, SIGIR, IJCAI, EurNLP, AthenNLP	

Publications

Google Scholar Bibliometrics:
citations: 3082; h-index: 23; i10-index: 33
CORE Conference Ranking: 17 A* and 4 A conference articles
SJR Journal Ranking: 6 Q1 journal articles
First authorship (citations: 2048): 13 articles, 2 US patents
Last authorship: 7 articles

PREPRINT ARTICLES

Steffen Eger, Yong Cao, Jennifer D'Souza, Andreas Geiger, Christian Greisinger, Stephanie Gross, Yufang Hou, Brigitte Krenn, Anne Lauscher, Yizhi Li, Chenghua Lin, Nafise Sadat Moosavi, **Wei Zhao**, Tristan Miller. Transforming Science with Large

Journal article	9
Dissertation	1
Peer-reviewed conference article	24
Peer-reviewed workshop article	11
Preprint article	3
US patent	2
Others	1
Total	**51**

Language Models: A Survey on AI-Assisted Scientific Discovery, Experimentation, Content Generation, and Evaluation. Preprint, arXiv:2502.05151

Yanran Chen, **Wei Zhao**, Anne Breitbarth, Manuel Stoeckel, Alexander Mehler, Steffen Eger. Syntactic Language Change in English and German: Metrics, parsers, and convergences." arXiv preprint arXiv:2402.11549

Lyu Tianwen, Xiang Zhuang, Keyan Ding, Xinzhe Cao, Lei Liang, **Wei Zhao**, Qiang Zhang, and Huajun Chen. Knowledge-Augmented Long-CoT Generation for Complex Biomolecular Reasoning. arXiv preprint arXiv:2511.08024

Peer-reviewed conference articles

Bhatia, Gagan, Maxime Peyrard, and **Wei Zhao**. Date Fragments: A Hidden Bottleneck of Tokenization for Temporal Reasoning. In Proceedings of the 2025 Conference on Empirical Methods in Natural Language Processing (EMNLP 2025)

Ran Zhang, **Wei Zhao**, Lieve Macken, and Steffen Eger. TRANSPROQA: An LLM-based literary TRANSlation Evaluation Metric with PROfessional Question Answering. In Proceedings of the 2025 Conference on Empirical Methods in Natural Language Processing (EMNLP 2025)

Ran Zhang, **Wei Zhao**, Steffen Eger. How Good Are LLMs for Literary Translation, Really? Literary Translation Evaluation with Humans and LLMs. In Proceedings of the North American Chapter of the Association for Computational Linguistics (NAACL 2025)

Xianghe Ma, Michael Strube, **Wei Zhao**. Graph-based Clustering for Detecting Semantic Change Across Time and Languages. In Proceedings of the 18th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2024)

Wei Zhao, Michael Strube, Steffen Eger. DiscoScore: Evaluating Text Generation with BERT and Discourse Coherence. In Proceedings of the 17th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2023)

Wei Zhao, Steffen Eger. Constrained Density Matching and Modeling for Cross-Lingual Alignment of Contextualized Representations. In Asian Conference on Machine Learning, pp. 1245-1260. PMLR (ACML 2023)

Wei Zhao, Federico Lopez, J. Maxwell Riestenberg, Michael Strube, Diaaeldin Taha, Steve Trettel. Modeling Graphs Beyond Hyperbolic: Graph Neural Networks in Symmetric Positive Definite Matrices. In Joint European Conference on Machine Learning and Knowledge Discovery in Databases (ECML-PKDD 2023)

Maxime Peyrard, **Wei Zhao**, Steffen Eger, Robert West. Better than Average: Paired Evaluation of NLP systems. In Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics (ACL 2021)

Marvin Kaster, **Wei Zhao**, Steffen Eger. Global Explainability of BERT-Based Evaluation Metrics by Disentangling along Linguistic Factors. In Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing (EMNLP 2021)

Wei Zhao, Steffen Eger, Johannes Bjerva, Isabelle Augenstein. Inducing Language-Agnostic Multilingual Representations. In Proceedings of *SEM 2021: The Tenth Joint Conference on Lexical and Computational Semantics (*SEM 2021)

Wei Zhao, Goran Glavaš, Maxime Peyrard, Yang Gao, Robert West, Steffen Eger. On the Limitations of Cross-lingual Encoders as Exposed by Reference-Free Machine Translation Evaluation. In Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics (ACL 2020)

Yang Gao, **Wei Zhao**, Steffen Eger. SUPERT: Towards New Frontiers in Unsupervised Evaluation Metrics for Multi-Document Summarization. In Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics (ACL 2020)

Wei Zhao, Maxime Peyrard, Fei Liu, Yang Gao, Christian M. Meyer, Steffen Eger. MoverScore: Text Generation Evaluating with Contextualized Embeddings and Earth Mover Distance. In Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing (EMNLP 2019)

Wei Zhao, Haiyun Peng, Steffen Eger, Erik Cambria, Min Yang. Towards Scalable and Reliable Capsule Networks for Challenging NLP Applications. In Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics (ACL 2019)

Chunpu Xu, **Wei Zhao**, Min Yang, Xiang Ao, Wangrong Cheng, Jinwen Tian. A Unified Generation-Retrieval Framework for Image Captioning. In Proceedings of the 28th ACM International Conference on Information and Knowledge Management, (CIKM 2019)

Zeyang Lei, Yujiu Yang, Min Yang, **Wei Zhao**, Jun Guo, Yi Liu. A Human-Like Semantic Cognition Network for Aspect-Level Sentiment Classification. In Proceedings of the AAAI Conference on Artificial Intelligence, (AAAI 2019)

Min Yang, Qiang Qu, Ying Shen, Qiao Liu, **Wei Zhao**, Jia Zhu. Aspect and Sentiment Aware Abstractive Review Summarization. In Proceedings of the 27th International Conference on Computational Linguistics (COLING 2018)

Wei Zhao, Benyou Wang, Jianbo Ye, Yongqiang Gao, Min Yang, Xiaojun Chen. PLASTIC: Prioritize Long and Short-Term Information in Top-n Recommendation Using Adversarial Training. In Proceedings of the Twenty-Seventh International Joint Conference on Artificial Intelligence (IJCAI 2018)

Wei Zhao, Benyou Wang, Jianbo Ye, Min Yang, Zhou Zhao, Ruotian Luo, Yu Qiao. A Multi-Task Learning Approach for Image Captioning. In Proceedings of the Twenty-Seventh International Joint Conference on Artificial Intelligence (IJCAI 2018)

Wei Zhao, Jianbo Ye, Min Yang, Zeyang Lei, Suofei Zhang, Zhou Zhao. Investigating Capsule Networks with Dynamic Routing for Text Classification. In Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing (EMNLP 2018)

Wei Zhao, Jia Zhu, Min Yang, Danyang Xiao, Gabriel Pui Cheong Fung, Xiaojun Chen. A Semi-Supervised Network Embedding Model for Protein Complexes Detection. In Proceedings of the AAAI Conference on Artificial Intelligence, Student Abstract (AAAI 2018)

Wei Zhao, Wei Xu, Min Yang, Jianbo Ye, Zhou Zhao, Yabing Feng, Yu Qiao. Dual Learning for Cross-Domain Image Captioning. In Proceedings of the 2017 ACM on Conference on Information and Knowledge Management (CIKM 2017)

Min Yang, Zhou Zhao, **Wei Zhao**, Xiaojun Chen, Jia Zhu, Lianqiang Zhou, Zigang Cao. Personalized Response Generation via Domain Adaptation. In Proceedings of the 40th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2017)

JOURNAL ARTICLES

Christoph Leiter, Piyawat Lertvittayakumjorn, Marina Fomicheva, **Wei Zhao**, Yang Gao, Steffen Eger. Towards Explainable Evaluation Metrics for Natural Language Generation. In Journal of Machine Learning Research (JMLR 2024)

Diaaeldin Taha, **Wei Zhao**, J Maxwell Riestenberg, Michael Strube. Normed Spaces for Graph Embedding. In Transactions on Machine Learning Research (TMLR 2024)

Yang Li, **Wei Zhao**, Erik Cambria, Suhang Wang, Steffen Eger. Graph Routing Between Capsules. Neural Networks (2021): 345-354

Suofei Zhang, **Wei Zhao**, Xiaofu Wu, Quan Zhou. Fast Dynamic Routing Based on Weighted Kernel Density Estimation. Concurrency and Computation: Practice and Experience 33, no. 15 (2021)

Qingnan Jiang, Lei Chen, **Wei Zhao**, Min Yang. Toward Aspect-Level Sentiment Modification Without Parallel Data. IEEE Intelligent Systems 36, no. 1 (2021)

Min Yang, **Wei Zhao**, Lei Chen, Qiang Qu, Zhou Zhao, Ying Shen. Investigating the Transferring Capability of Capsule Networks for Text Classification. Neural Networks 118 (2019): 247-261

Wei Zhao, Benyou Wang, Min Yang, Jianbo Ye, Zhou Zhao, Xiaojun Chen, Ying Shen. Leveraging Long and Short-Term Information in Content-Aware Movie Recommendation via Adversarial Training. IEEE Transactions on Cybernetics 50, no. 11 (2019)

Min Yang, **Wei Zhao**, Wei Xu, Yabing Feng, Zhou Zhao, Xiaojun Chen, Kai Lei. Multitask Learning for Cross-Domain Image Captioning. IEEE Transactions on Multimedia 21, no. 4 (2018)

Min Yang, Yuzhi Liang, **Wei Zhao**, Wei Xu, Jia Zhu, Qiang Qu. Task-Oriented Keyphrase Extraction From Social Media. Multimedia Tools and Applications (2018)

PEER-REVIEWED WORKSHOP ARTICLES

Ying Xuan Loke, Dominik Schlechtweg, **Wei Zhao**. ABDN-NLP at CoMeDi Shared Task: Predicting the Aggregated Human Judgment via Weighted Few-Shot Prompting. In Proceedings of Context and Meaning: Navigating Disagreements in NLP Annotation, 2025

Dominik Schlechtweg, Tejaswi Choppa, **Wei Zhao**, Michael Roth. CoMeDi Shared Task: Median Judgment Classification & Mean Disagreement Ranking with Ordinal Word-in-Context Judgments. In Proceedings of Context and Meaning: Navigating Disagreements in NLP Annotation, 2025

Pauline Sander, Simon Hengchen, **Wei Zhao**, Xiaocheng Ma, Emma Sköldberg, Shafqat Virk, Dominik Schlechtweg. The DURel Annotation Tool: Using fine-tuned LLMs to discover non-recorded senses in multiple languages. In Proceedings of the Large Language Models and Lexicography, 2024

Melis Çelikkol, Lydia Körber, **Wei Zhao**. Exploring Diachronic and Diatopic Changes in Dialect Continua: Tasks, Datasets and Challenges. In Proceedings of the 5th Workshop on Computational Approaches to Historical Language Change, 2024

Siqi He, **Wei Zhao**. Exploring Sound Change Over Time: A Review of Computational and Human Perception. In Proceedings of the 5th Workshop on Computational Approaches to Historical Language Change, 2024

Xianghe Ma, Dominik Schlechtweg, **Wei Zhao**. Presence or Absence: Are Unknown Word Usages in Dictionaries? In Proceedings of the 5th Workshop on Computational Approaches to Historical Language Change, 2024

Gregor Geigle, Jonas Stadtmüller, **Wei Zhao**, Jonas Pfeiffer, Steffen Eger. TUDA at WMT21: Sentence-Level Direct Assessment with Adapters. In Proceedings of the Sixth Conference on Machine Translation, 2021

Marina Fomicheva, Piyawat Lertvittayakumjorn, **Wei Zhao**, Steffen Eger, Yang Gao. The Eval4NLP Shared Task on Explainable Quality Estimation: Overview and Results. In Proceedings of the 2nd Workshop on Evaluation and Comparison of NLP Systems, 2021

Haixia Chai, **Wei Zhao**, Steffen Eger, Michael Strube. Evaluation of Coreference Resolution Systems Under Adversarial Attacks. In Proceedings of the First Workshop on Computational Approaches to Discourse, 2020

Gao Yang, Steffen Eger, **Wei Zhao**, Piyawat Lertvittayakumjorn, Marina Fomicheva. In Proceedings of the 2nd Workshop on Evaluation and Comparison of NLP Systems, 2021

Steffen Eger, Yang Gao, Maxime Peyrard, **Wei Zhao**, Eduard Hovy. In Proceedings of the First Workshop on Evaluation and Comparison of NLP Systems, 2020

US Patents

Wei Zhao, Yabing Feng, Liao Yu, Junbin Lai, Haixia Chai, Xuanliang Pan, and Lichun Liu. Machine Learning Model Training Method and Apparatus, Server, and Storage Medium. U.S. Patent No. 11,531,841, issued December 20, 2022.

Wei Zhao, Yabing Feng, Liao Yu, Junbin Lai, Haixia Chai, Xuanliang Pan, and Lichun Liu. Data Processing Method and Device, Classifier Training Method and System, and Storage Medium. U.S. Patent No. 11,860,976, issued January 2, 2024.

Dissertation

Wei Zhao. On the Principles of Evaluation for Natural Language Generation. Technische Universität Darmstadt, 2023

Others

Wei Zhao and other 11 Marsilius Fellows. Marsillius College 2022/2023 on Crossing Through Space and Time, Heidelberg University

Invited Talks and Tutorials

10/2025	**Transforming Science with Large Language Models**, Telecom Paris and Vienna University of Technology
07/2025	**AI-assisted Scientific Discovery, Experimentation, Content Generation, Evaluation**, IT:U Summer School 2025, Linz, Austria
05/2025	**Large Language Models for Scientific Research**, Leipzig University, Germany
04/2025	**Temporal Reasoning with Large Language Models: From Text to Multimodal Content**, A*STAR and Nanyang Technological University, Singapore
04/2025	**Large Language Models for Cross-Temporal Research**, Aalborg University, Copenhagen, Denmark
09/2024	**Automatic Dictionary Induction**, Oxford University Press
09/2024	**Towards the Temporal Grounding of Conversational Information Retrieval**, University of Glasgow and University of Strathclyde
06/2024	**A Pathway from Language Change to Computational Lexicography**, University of Stuttgart, University of Mannheim, and Université Grenoble Alpes

Organising Committee

2025	**The 1st Towards Human-LLM Collaboration for Ethical and Responsible Science Production Workshop**, IJCNLP-AACL 2025, Primary Organiser
2025	**The 1st LLMs for Cross-Temporal Research Workshop**, COLM 2025, Primary Organiser
2025	**The 1st Context and Meaning: Navigating Disagreements in NLP Annotation Shared Task**, COLING 2025, Organiser
2021	**The 2nd Workshop on Evaluation and Comparison for NLP systems (Eval4NLP)**, EMNLP 2021, Organiser
2020	**The 1st Workshop on Evaluation and Comparison for NLP systems (Eval4NLP)**, EMNLP 2020, Organiser

Area Chairing

2025	**ACL Rolling Review**, May 2025
2025	**ACL Rolling Review**, February 2025
2025	**The 29th Conference on Computational Natural Language Learning (CoNLL)**, April 2025
2025	**The 31st International Conference on Computational Linguistics (COLING)**, September 2024

Grant Proposal Reviewing

since 2024	**Leverhulme Trust**, UK
since 2024	**The International Science Partnerships Fund (ISPF)**, UK
since 2024	**Engineering and Physical Sciences Research Council (EPSRC)**, UK

Others

2025	**Committee Member for Best Paper Award**, CoNLL 2025
2024	**Committee Member for Best PhD Thesis**, Scottish Informatics and Computer Science Alliance

University Internal Services

since 2025	**Research Ethics Officer**, University of Aberdeen
since 2024	**Erasmus Programme Officer**, University of Aberdeen
since 2024	**Personal Tutor of Students**, University of Aberdeen

Teaching Experience

Supervision

Code	Course title	ECTS	Type	University	Students	When	Hours	Degree
CS4051	Natural Language Processing	7.5	Instruction	Aberdeen	60–70	2024–25	5H/week	BSC
CS5063	Evaluation of AI Systems	7.5	Instruction	Aberdeen	30–40	2024–26	6H/week	MSC
diaclms-ws23	Diachronic Language Models	4-8	Seminar	Heidelberg	15–20	2023–24	1.5H/week	BSC & MSC
diaclms-ws24	Diachronic Language Models	4-8	Project	Heidelberg	5–10	2024–25	0.5H/week	BSC & MSC
xtempnlp	Cross-Temporal NLP	4-8	Seminar	Heidelberg	20–30	2025-26	1.5H/week	BSC & MSC
CS551P	Advanced Programming	7.5	Instruction	Aberdeen	30–40	2024–25	6H/week	MSC
CS551N	Introduction to Programming	7.5	Instruction	Aberdeen	20–30	2024–26	6H/week	MSC
CS2522	Algorithms and Data Structures	7.5	Instruction	Aberdeen	60-80	2026	4H/week	BSC

	in progress	completed
PhD Thesis	2	0
MSC Thesis	2	9
— of which with ensuing publication		2
BSC Thesis	4	3
— of which with ensuing publication		1

PhD Ongoing Theses

since 2025 **Yujun Wang,** Knowledge Conflicts in Science, University of Aberdeen

since 2024 **Ran Zhang,** Evaluation of LLMs for Machine Translation, University of Mannheim, partially co-supervised w/ Steffen Eger

since 2026 **Owusu-Banahene Osei,** LLMs for Science, University of Aberdeen

BSC Thesis Supervision and Ensuing Publications

2026 **Nusrath Jinnath,** Safety evaluation of LLMs, University of Aberdeen

2026 **Ishaq Ali,** Community conflicts in Machine Translations, University of Aberdeen

2026 **Carlos Gomez Aryoshi,** LLMs for forecasting, University of Aberdeen

2026 **Nathan Begley,** LLMs for idea generation in non-English languages, University of Aberdeen

2025 **Niklas Lough,** Large Language Models for Time-series Forecasting, University of Aberdeen

2025 **Shu Fan Sun,** Public Perception of AI use for Translation, University of Aberdeen

2025 **Ying Xuan Loke,** Context and Meaning: Navigating Disagreements in NLP Annotations, University of Aberdeen

- **Publication:** Ying Xuan Loke, Dominik Schlechtweg, and Wei Zhao: ABDN-NLP at CoMeDi Shared Task: Predicting the Aggregated Human Judgment via Weighted Few-Shot Prompting, Proceedings of Context and Meaning: Navigating Disagreements in NLP Annotation, pp. 122–128, 2025.

MSC Thesis Supervision and Ensuing Publications

2025	**Roshani Pawar,** Vocabulary Through Time: Identifying Temporal Patterns in Pretraining Data, University of Aberdeen
2025	**Ahmad Isa,** Cross-lingual Temporal Biases in LLMs, University of Aberdeen
2025	**Owusu-Banahene Osei,** Generation and Evaluation for Multimodal Scientific Content, University of Aberdeen
2025	**Pavan Rajesh,** Evaluation of AI Misuse in Scientific Publications, University of Aberdeen
2024	**Xiaocheng Ma,** Automatic Generation and Summarization of Dictionary Word Senses, University of Aberdeen

- **Publication:** Pauline Sander, Simon Hengchen, Wei Zhao, Xiaocheng Ma, Emma Sköldberg, Shafqat Virk, and Dominik Schlechtweg. "The durel annotation tool." Large Language Models and Lexicography (2024).

2025	**Lydia Körber,** Sense-level Bilingual Dictionary Induction, Heidelberg University
2025	**Melis Çelikkol,** Semantic Change from Spoken to Sign Languages, Heidelberg University
2025	**Zahra Hashemi,** From Ideation to Safeguarding: An AI Safety Framework for Malicious Research Proposal Generation with LLMs, University of Luxembourg
2023	**Xianghe Ma,** Graph-based Modeling of Temporal and Spatial Dynamics for Semantic Change, Heidelberg University

- **Publication:** Xianghe Ma, Michael Strube, and Wei Zhao: Graph-based Clustering for Detecting Semantic Change Across Time and Languages, Proceedings of the 18th Conference of the European Chapter of the Association for Computational Linguistics (EACL), 2024.

- **Publication:** Xianghe Ma, Dominik Schlechtweg, and Wei Zhao: Presence or Absence: Are Unknown Word Usages in Dictionaries?, Proceedings of the 5th Workshop on Computational Approaches to Historical Language Change, 2024.

Media

05/2025	**QA-Based Evaluation Takes on Literary AI Translation,** https://slator.com/qa-based-evaluation-takes-on-literary-ai-translation	*Slator*
10/2024	**Large Language Models No Match for Humans in Literary Translation,** https://slator.com/large-language-models-no-match-for-humans-in-literary-translation-study-finds/	*Slator*

PhD Committee

01/2026	**Formal Semantic Control over Language Models ,** Yingji Zhang, University of Manchester
04/2026	**Using an AI App to Encourage Safer Driving in Non-Western Countries: A Nigerian Context,** Iniakpokeikiye Thompson, University of Aberdeen