

# Zhao Meng

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PhD Student at ETH Zurich & Student Researcher at Google DeepMind

## Education

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| <b>ETH Zurich</b><br><i>PhD, Electrical Engineering</i>                      | <b>Zurich, Switzerland</b><br><i>Nov. 2019 – Present</i>   |
| <b>ETH Zurich</b><br><i>Master, Data Science</i>                             | <b>Zurich, Switzerland</b><br><i>Sep. 2017 – Oct. 2019</i> |
| <b>Peking University</b><br><i>Bachelor, Computer Science and Technology</i> | <b>Beijing, China</b><br><i>Sep. 2013 – Jul. 2017</i>      |

## Experience

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| <b>Google DeepMind</b><br><i>Student Researcher, Zurich</i><br>Supervisor: Massimo Nicosia<br>Achievements: <ul style="list-style-type: none"><li>Investigate multimodal applications for large language models.</li></ul>                              | <i>Aug. 2023 – Present</i>   |
| <b>Google Research</b><br><i>Student Researcher, New York City</i><br>Supervisor: Daliang Li<br>Achievements: <ul style="list-style-type: none"><li>Investigate efficient and flexible retrieval augmentation for large language models.</li></ul>      | <i>Jul. 2022 – Jul. 2023</i> |
| <b>Microsoft Research Asia</b><br><i>Research Intern, Beijing</i><br>Supervisor: Jian-Guang Lou<br>Achievements: <ul style="list-style-type: none"><li>Investigate translating natural language text into task-specific programming language.</li></ul> | <i>Oct. 2016 – Apr. 2017</i> |
| <b>Carnegie Mellon University</b><br><i>Research Intern, Pittsburgh</i><br>Supervisor: Justine Cassell, Yoichi Matsuyama<br>Achievements: <ul style="list-style-type: none"><li>Investigate Socially-Aware Robot Assistant.</li></ul>                   | <i>Jun. 2016 – Sep. 2016</i> |

## Publications

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- 1: Zifeng Ding, Ruoxia Qi, Zongyue Li, Bailan He, Jingpei Wu, Yunpu Ma, **Zhao Meng**, Zhen Han, Volker Tresp, "ForecastTKGQuestions: A Benchmark for Temporal Question Answering and Forecasting over Temporal Knowledge Graphs" In *Proceedings of the International Semantic Web Conference (ISWC)*, 2023.
- 2: Jens Hauser\*, **Zhao Meng\***, Damián Pascual, Roger Wattenhofer, "BERT is Robust! A

Case Against Synonym-Based Adversarial Examples in Text Classification" In *Proceedings of the International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, 2023.

3: Yu Fei, **Zhao Meng**, Ping Nie, Roger Wattenhofer, Mrinmaya Sachan, "Beyond prompting: Making Pre-trained Language Models Better Zero-shot Learners by Clustering Representations" In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2022.

4: **Zhao Meng**<sup>\*</sup>, Yihan Dong<sup>\*</sup>, Mrinmaya Sachan, Roger Wattenhofer, "Self-Supervised Contrastive Learning with Adversarial Perturbations for Robust Pretrained Language Models" In *Findings of the North America Chapter of Annual Meeting of the Association for Computational Linguistics (NAACL)*, 2022.

5: Guirong Fu<sup>\*</sup>, **Zhao Meng**<sup>\*</sup>, Zhen Han, Zifeng Ding, Yunpu Ma, Matthias Schubert, Volker Tresp, Roger Wattenhofer, "TempCaps: A Capsule Network-based Embedding Model for Temporal Knowledge Graph Completion" In *Workshop on Structured Prediction for NLP at ACL*, 2022.

6: Zai Shi<sup>\*</sup>, **Zhao Meng**<sup>\*</sup>, Yiran Xing, Yunpu Ma, Roger Wattenhofer, "3D-RETR: End-to-End Single and Multi-View 3D Reconstruction with Transformers" In *Proceedings of the British Machine Vision Conference (BMVC)*, 2021.

7: Nikola Jovanović, **Zhao Meng**, Lukas Faber, Roger Wattenhofer, "Towards Robust Graph Contrastive Learning" In *Workshop on Self-Supervised Learning for the Web*, 2021.

8: Yiran Xing<sup>\*</sup>, Zai Shi<sup>\*</sup>, **Zhao Meng**<sup>\*</sup>, Gerhard Lakemeyer, Yunpu Ma, Roger Wattenhofer, "KM-BART: Knowledge Enhanced Multimodal BART for Visual Commonsense Generation" In *Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL)*, 2021.

9: **Zhao Meng**, Roger Wattenhofer, "A Geometry-Inspired Attack for Generating Natural Language Adversarial Examples" In *Proceedings of the Conference on Computational Linguistics (COLING)*, 2020.

10: **Zhao Meng**, Lili Mou, Zhi Jin, "Towards Neural Speaker Modeling: The Task, Dataset and Models" In *Proceedings of the Language Resources and Evaluation Conference (LREC)*, 2018. Also presented at AAI, 2018.

11: **Zhao Meng**, Lili Mou, Zhi Jin, "Hierarchical RNN with Static Sentence-Level Attention for Text-Based Speaker Change Detection." In *Proceedings of the Conference on Information and Knowledge Management (CIKM)*, 2017.

12: Lili Mou, **Zhao Meng**, Rui Yan, Ge Li, Yan Xu, Lu Zhang, Zhi Jin, "How Transferable are Neural Networks in NLP Applications?" In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2016.

13: **Zhao Meng**, Lili Mou, Ge Li, Zhi Jin, "Context-Aware Tree-Based Convolutional Neural Networks for Natural Language Inference." In *Proceedings of the Conference on Knowledge Science, Engineering and Management (KSEM)*, 2016.

\*: equal contribution.

See also at [Google Scholar](#)

## Research Interests

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Self-Supervised Learning; Adversarial Training; Retrieval Augmentation; Large Language Models; Multi-Modal Learning.

## Coding Skills

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Python; PyTorch; TensorFlow; JAX; Flax; T5X; SeqIO.

## Awards

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| <i>Marie Curie PhD Fellowship (declined)</i>                        | <i>June. 2019</i> |
| <i>Second Award of PKU Young Scientist Symposium on Informatics</i> | <i>Nov. 2016</i>  |
| <i>Merit Student Award (top 15% of academic year 2015 - 2016)</i>   | <i>Oct. 2016</i>  |
| <i>Yangxin Scholarship</i>  | <i>Oct. 2016</i>  |