

Zifeng Ding

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Education

Ludwig Maximilian University of Munich (LMU Munich)

Jun 2021 – present

- *Ph.D. of Computer Science (Supervisor: Volker Tresp)*
- Main focus: graph machine learning, knowledge graphs, natural language processing (NLP).

Technical University of Munich

Oct 2018 - Mar 2021

- *Master of Electrical and Computer Engineering (passed with distinction)*

East China Normal University

Sept 2014 - Jun 2018

- *Bachelor of Electrical Engineering*

Professional Experience

University of Oxford

Apr 2023 - present

- *Visiting Researcher (Supervisor: Michael Bronstein)*
- Focus on graph machine learning and NLP. Topics include but not restricted to: state space model for graph representation learning, truthful text generation with large language models (LLMs).

European Laboratory for Learning and Intelligent Systems (ELLIS)

Nov 2023 - present

- *Nominated Ph.D. at ELLIS (Supervisor: Volker Tresp, Michael Bronstein)*

Siemens AG

Jun 2021 - present

- *Researcher Ph.D. Student*
- Responsible for implementing graph machine learning techniques and LLMs in AI-driven industrial use cases. Design LLM-based system for automated supply chain management and information retrieval from supply chain knowledge graphs. The developed system has been integrated into customers' working pipeline and is patented.

Selected Publications

Full Publication List on Google Scholar Page: <https://scholar.google.com/citations?user=8RapuD4AAAAJ&hl=en>

- **Ding, Z.**, Cai, H., Wu, J., Ma, Y., Liao, R., Xiong, B., Tresp, V., **zrLLM: Zero-Shot Relational Learning on Temporal Knowledge Graphs with Large Language Models**, NAACL (2024) Oral.
- Xia, Y. *, Shi, L. *, **Ding, Z.**, Henriques, J. F., Cremers, D., **Text2Loc: 3D Point Cloud Localization from Natural Language**, CVPR (2024).
- **Ding, Z.**, Qi, R., Li, Z., He, B., Wu, J., Ma, Y., Meng, Z., Chen, S., Liao, R., Han, Z., Tresp, V., **ForecastTKGQuestions: A Benchmark for Temporal Question Answering and Forecasting over**

Temporal Knowledge Graphs, ISWC (2023).

- **Ding, Z.**, Wu, J., Li, Z., Ma, Y., Tresp, V., **Improving Few-Shot Inductive Learning on Temporal Knowledge Graphs using Confidence-Augmented Reinforcement Learning**, ECML/PKDD (2023).
- Han, Z., Liao, R., Gu, J., Zhang, Y., **Ding, Z.**, Gu, Y., Köppl, H., Schütze, H., Tresp, V., **ECOLA: Enhanced Temporal Knowledge Embeddings with Contextualized Language Representations**, ACL (2023).
- **Ding, Z.**, Wu, J., He, B., Ma, Y., Han, Z., Tresp, V., **Few-Shot Inductive Learning on Temporal Knowledge Graphs using Concept-Aware Information**, AKBC (2022) **Honorable Mention**.
- Han, Z. *, **Ding, Z.***, Ma, Y., Gu, Y., Tresp, V., **Learning Neural Ordinary Equations for Forecasting Future Links on Temporal Knowledge Graphs**, EMNLP (2021),*equal contribution.

Honors & Awards

European Network of AI Excellence Centres (ELISE) Scholarship **Apr 2024**

- To cover expenses during the visit to the University of Oxford.

Honorable Mention of Automated Knowledge Base Construction (AKBC) 2022 **Nov 2022**

- For the paper: **Few-Shot Inductive Learning on Temporal Knowledge Graphs using Concept-Aware Information**.

First Prize Scholarship for Outstanding Student of East China Normal University **Nov 2017**

- For the top 2% of university students.

Community Service

- Serve as reviewer including ACL Rolling Review, NeurIPS 2023, ICML 2023, EMNLP 2022, TPAMI, ECML/PKDD 2023 & 2024.
- Serve as PC member of ECML/PKDD 2024.
- Serve as Area Chair of Temporal Graph Learning @ NeuraIPS 2024.

Professional Skills

- Proficient skills in Python, PyTorch, PyTorch Geometric (PyG), Hugging Face, Unix/Linux, LaTeX.
- Extensive expertise in machine learning, NLP, generative AI, meta learning and data mining.
- Excellent supervisor. Supervised 7+ master students in publication-oriented AI research and 4 of them have become Ph.D. students in various AI-related topics, e.g., generative AI. Also have been co-supervising junior Ph.D. students from LMU Munich and the University of Stuttgart in graph machine learning and NLP. Supervised 2 master student interns at Siemens AG as project mentor.
- Good skills in C/C++, Neo4j, Jenkins.
- Language skills: Chinese (Native), English (Full Professional), German (Limited Working).