

Zhangdie (Moy) Yuan

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Research Interests

Natural Language Understanding and Generation, Automated Fact-Checking, Question Generation, Knowledge Graph, Knowledge Base Construction, Language Model Probing, Prompt-Based Learning, Paraphrase Generation.

Education

University of Cambridge, Trinity Hall, Cambridge, England, UK

Doctor of Philosophy, Computer Science, 2021 - 2025 (expected)

Master of Philosophy, Computer Science, Distinction, 2020 - 2021

Supervisor: Prof. Andreas Vlachos

University of Edinburgh, Edinburgh, Scotland, UK

Bachelor of Science Hons, Computer Science, First, 2016 - 2020

Experience

University of Cambridge, Cambridge, England, UK

Research Assistant, Department of Computer Science and Technology, 2021 -

Member of the Natural Language and Information Processing Research Group, primarily researching on automated fact-checking with knowledge graphs, supervised by Prof. Andreas Vlachos. Other research projects include question generation and large language model probing, collaborating with other research labs.

Agency for Science, Technology and Research, Singapore

Research Assistant, Institute for Infocomm Research, Summer 2019

Member of the Aural & Language Intelligence Research Department, researched on controllable paraphrase generation, especially on paraphrasing questions, supervised by Dr. Minghui Dong.

University of Edinburgh, Edinburgh, Scotland, UK

Research Assistant, School of Informatics, Summer 2018

Member of the EdinburghNLP group, researched on both discourse representation structure parsing and cross-lingual abstract meaning representation parsing, supervised by Dr. Shay Cohen.

Publication

Papers

* marks equal contribution

1. **Can Pretrained Language Models (Yet) Reason Deductively?**, Zhangdie Yuan*, Songbo Hu*, Ivan Vulić, Anna Korhonen and Zaiqiao Meng, *Proceedings of the 17th Conference of the European Chapter of the Association for Computational Linguistics*
2. **Varifocal Question Generation for Fact-checking**, Nedjma Djouhra Ousidhoum*, Zhangdie Yuan* and Andreas Vlachos, *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing*

Theses

3. **Generating Questions for Fact-Checking**, Zhangdie Yuan, M.Phil. thesis, *University of Cambridge*

Awards

PhD Grants, Automated Verification of Textual Claims (AVeriTeC), European Research Council, 2021
 Trinity Hall Postgraduate Research Grants, Trinity Hall, University of Cambridge, 2021
 Singapore International Pre-Graduate Award (SIPGA), Agency for Science, Technology and Research, 2019

Service

Organising Committee Member

Automated Knowledge Base Construction (AKBC) 2022

Program Committee Member or Reviewer

Workshop on Structured Prediction for NLP (SPNLP) 2022, ACL Rolling Review (ARR), Empirical Methods in Natural Language Processing (EMNLP) 2022, Automated Knowledge Base Construction (AKBC) 2022

Teaching

Data Science 2022-23

Teaching Assistant, with Dr. Damon Wischik, at the University of Cambridge

Served as a supervisor for this part IB course, covering a wide range of fundamental models and tools for describing the behaviour of random systems and making inferences based on data generated by such systems.

Machine Learning and Real-world Data 2021-22, 2022-23

Teaching Assistant, with Prof. Simone Teufel and Prof. Andreas Vlachos, at the University of Cambridge

Served as both a lab demonstrator and a tinker for this part IA course, covering both machine learning algorithms as used in real-world applications and experimental methodology to perform statistical analysis of large-scale data.

Processing Formal and Natural Languages 2018-19

Teaching Assistant, with Dr. Mary Cryan and Dr. Shay Cohen, at the University of Edinburgh

Served as both a lab demonstrator and a tutor for this year 2 undergraduate course, covering models that describe and analyse both formal languages (such as programming languages) and natural languages (text and speech).

Skills

Experienced

Python, Anaconda, PyTorch, Huggingface/Transformers, spaCy, NLTK, scikit-learn, NumPy, Jekyll, Flask, Debian-based GNU/Linux, i3, Bash, Zsh, Slurm, Docker, \LaTeX

Intermediate

TensorFlow, Java/Kotlin, C++, HTML, XML, JavaScript, Direct3D 11, ASP.NET, Arch-based GNU/Linux

Languages

Native Mandarin Chinese, Fluent English, Beginner-level Japanese

Reference

Prof. Andreas Vlachos, Professor, Dept. of Computer Science and Technology, University of Cambridge
 01223763704 av308@cam.ac.uk