

# A/Prof Wei Liu



A/Prof Wei Liu

Theme Lead

Theme 1

Assoc Prof Wei Liu is a full time teaching & research academic in the Department of Computer Science and Software Engineering at the University of Western Australia.

Her research focuses on knowledge discovery from natural language text, deep learning methods for knowledge graph construction and analysis, as well as sequential data mining and forecasting in traffic and water consumption domain.

She has published in highly reputable venues such as ACM Computer Surveys, Journal of Data Mining and Knowledge Discovery, Knowledge and Information Systems, International Conference on Data Engineering (ICDE), ACM International Conference on Information and Knowledge Management (CIKM).

## Publications

- [CySpider: A Neural Semantic Parsing Corpus with Baseline Models for Property Graphs \(...\)](#) —  
**Conference Publishing**

[Ziyu Zhao](#)

**Authors: Ziyu Zhao, Wei Liu, Tim French & Michael Stewart**  
2023-11-27

- [SConE: Simplified cone embeddings with symbolic operators for complex logical queries \(...\)](#) —  
**Conference Publishing**

[Chau Nguyen](#)

**Authors: Chau Nguyen, Tim French, Wei Liu, Michael Stewart**  
2023-07-14

- [CylE: Cylinder Embeddings for Multi-hop Reasoning over Knowledge Graphs \(...\)](#) —  
**Conference Publishing**

[Chau Nguyen](#)

**Authors: Chau Nguyen, Tim French, Wei Liu, Michael Stewart**  
2023-05-02

- [MWO2KG and Echidna: Constructing and exploring knowledge graphs from maintenance data \(...\)](#) —

**Journal Article**

[Dr Michael Stewart](#)

**Authors: Stewart M, Hodkiewicz M, Liu W, French T**  
2022-11-05

- [Automatic semantic knowledge extraction from electronic forms \(...\)](#) —

**Journal Article**

[A/Prof Timothy French](#)

**Authors: Haolin Wu, Tim French, Wei Liu, Melinda Hodkiewicz**  
2022-05-23

- [E2EET: from pipeline to end-to-end entity typing via transformer-based embeddings \(...\)](#) —

**Journal Article**

[Dr Michael Stewart](#)

**Authors: Michael Stewart, Wei Liu**  
2021-11-30

- [Cleaning and visualization of unstructured text in safety records \(...\)](#) —

**Conference Publishing**

[Dr Michael Stewart](#)

She has won three Australian Research Council Grants and managed several industry grants. Her current industry-related research projects include knowledge graph refinement for geological survey reports, incident log analysis and visualisation, short-term traffic predication and cognitive computing for asset management.

A/Prof Liu is a Chief Investigator for Theme 1 – Support the Maintainer. Wei supervisors PhD student Ziyu Zhao and Co Supervisors Tyler Bikaun and Chau Nguyen.

Research Gate

**Authors: Michael Stewart<sup>1</sup>, Wei Liu<sup>1</sup>, Rachel Cardell-Oliver<sup>1</sup> And Mark Griffin**

2020-11-01

- [Pipeline for machine reading of unstructured maintenance work order records \(...\)](#) —

**Conference Publishing**

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**Authors: Yiyang Gao, Caitlin Woods, Tim French, Melinda Hodkiewicz**

2020-11-01

- [Seq2KG: An End-to-End Neural Model for Domain Agnostic Knowledge Graph \(not Text Graph\) Construction from Text \(...\)](#) —

**Conference Publishing**

[Dr Michael Stewart](#)

**Authors: Michael Stewart, Wei Liu**

2020-09-01

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## Presentations

- [A fresh look at the Future of Technical Language Processing Research in the eyes of ChatGPT \(...\)](#) —



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2023-04-21

- [Latest advances in Natural Language Processing and how this can improve automation \(...\)](#) —



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2022-07-21

- [How is intelligence artificially learnt \(...\)](#) —



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2022-09-01

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## Awards and Prizes

- [Research & Innovation Project of the Year-Postgraduate Tertiary Student Award \(...\)](#)
  - [First Prize - ICDM 2019 Knowledge Graph Contest: Team UWA \(...\)](#)
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# Tools

## Content by label

There is no content with the specified labels