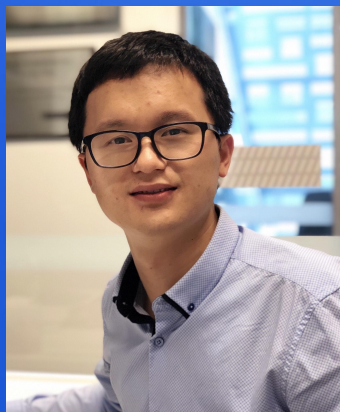




# 学术讲座



**潘世瑞** 澳大利亚格里菲斯大学正教授

**报告题目:** Towards Unifying Large Language Models  
and Knowledge Graphs

**报告时间:** 2024年9月18日(星期三) 下午 15:00-17:30

**报告地点:** 计电学院 1 楼报告厅

## 报告摘要

Large language models (LLMs) like PaLM-2 and GPT-4 have gained significant traction due to their emergent ability and generalizability. However, they face limitations in capturing and accessing factual knowledge as black-box models. On the other hand, Knowledge Graphs (KGs) offer rich factual information in a structured format and can enhance LLMs' inference and interpretability. In this talk, I will present a roadmap for unifying LLMs and KGs. I will present our KG-enhanced LLM approach, Reasoning on Graphs (ROG), which exploits KGs to enable faithful and interpretable LLM reasoning. An LLM-enhanced method for knowledge graph completion is also discussed. Future directions in this exciting field will be slightly covered.

## 报告人简介

**潘世瑞**, 澳大利亚基金委杰出青年 (ARC Future Fellow), 格里菲斯大学正教授 (Full Professor)。连续四年入选全球 AAAI/IJCAI 最具影响力学者, 入选全球前 2% 顶尖科学家榜单, 获得 2021 蒙纳士大学信息技术学院研究卓越奖 (早期研究者)。指导学生获得数据挖掘会议 ICDM 最佳学生论文奖 (2020), 获得 2024 年 IEEE TNNLS 杰出论文奖。在 Nature Machine Intelligence、NeurIPS、ICML、KDD、TPAMI、TKDE、TNNLS 等发表高水平论文 200 篇。同时担任 IEEE TCYB, TCDS, Neural Networks, KAIS 编委, 任 IJCAI, AAAI, KDD, WWW, CVPR 等 (高级) 程序委员会委员。谷歌学术引用 31,000+, H 指数 (H-Index) 66。主要研究方向为数据挖掘、机器学习。发表于 KDD、IJCAI、AAAI、CIKM 等顶级会议的共 8 篇文章被评为最具影响力论文 (Most Influential Papers), 获得澳大利亚基金委多个项目资金支持。

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