Tengfei Lyu (吕腾飞)

No.932 South Lushan Road, Changsha Hunan 410083 P.R. China

 (+86) 156-7583-3763 | ✉ tengfeilyu@csu.edu.cn | ⌂ tfeilyu.github.io/ | Google Scholar

Research Interests: *Graph Data Mining, Granph Neural Networks, Deep Learning, Knowledge Graph, Bioinformatics*

Education

Central South University
Changsha, Hunan

MASTER: COMPUTER TECHNOLOGY
Sept. 2019 - June 2022
- **GPA :** 3.6/4.0
- List of "Double First-Class" University Project、Project 985、Project 211

Providence University
Taichung, Taiwan

EXCHANGE STUDENT
Sept. 2017 - Jan. 2018
- During this period, I focused on six courses including "Introduction to Algorithms" and "Operating Systems", with excellent grades and an average score of 94.83

Bohai University
Jinzhou, Liaoning

BACHELOR: COMPUTER SCIENCE AND TECHNOLOGY (SOFTWARE DEVELOPMENT)
Sept. 2015 - June 2019
- **Ranking :** 1/243; **GPA :** 4.01/5.0

Publications

[1]. MDNN: A Multimodal Deep Neural Network for Predicting Drug-Drug Interaction Events

Tengfei Lyu, Jianliang Gao, Ling Tian, Zhao Li, Peng Zhang and Ji Zhang

The 30th International Joint Conference on Artificial Intelligence (**IJCAI**), 2021. (**CCF A**)

[2]. MGNN: A Multimodal Graph Neural Network for Predicting the Survival of Cancer Patients

Jianliang Gao, **Tengfei Lyu**, Fan Xiong, Jianxin Wang, Weimao Ke and Zhao Li

The 43th International ACM SIGIR Conference on Research and Development in Information Retrieval (**SIGIR**), 2020. (**CCF A**)

[3]. Predicting the Survival of Cancer Patients with Multimodal Graph Neural Network

Jianliang Gao, **Tengfei Lyu**, Fan Xiong, Jianxin Wang, Weimao Ke and Zhao Li

IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021. (**JCR Q1, CCF B**)

[4]. Enhancing Drug-Drug Interaction Event Prediction from Knowledge Graphs by Multimodal Deep Neural Networks

Jianliang Gao, **Tengfei Lyu***, Ling Tian, Zhao Li, Peng Zhang and Ji Zhang

IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021. Under Review, (**JCR Q1, CCF B**)

[5]. Multi-label Metabolic Pathway Prediction with Auto Molecular Structure Representation Learning

Jiamin Chen, Jianliang Gao, **Tengfei Lyu**, Babatounde Moctard Oloulade, and Xiaohua Hu

IEEE International Conference on Bioinformatics and Biomedicine (**BIBM**), 2021. (**CCF B**)

[6]. Protein2Vec: Aligning Multiple PPI Networks with Representation Learning

Jianliang Gao, Ling Tian, **Tengfei Lv**, Jianxin Wang, Bo Song and Zhao Li

IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019. (**JCR Q1, CCF B**)

[7]. GraphPAS: Parallel Architecture Search for Graph Neural Networks

Jiamin Chen, Jianliang Gao, Yibo Chen, Moctard Babatounde Oloulade, **Tengfei Lyu** and Zhao Li

The 44th International ACM SIGIR Conference on Research and Development in Information Retrieval (**SIGIR**), 2021. (**CCF A**)

[8]. **Graph Neural Architecture Search: A Survey**

BABATOUNDE OLOULADE, Jianliang Gao, Jiamin Chen, **Tengfei Lyu**, Raeed Al-Sabri

Tsinghua Science and Technology, 2021. **(JCR Q1)**

Patents ━━

[1]. **Drug-drug interaction event prediction method, system, terminal and readable storage medium based on multimodal deep neural network**

Jianliang Gao, **Tengfei Lyu**; China Invention Patent; Publication Patent Number: CN113012770A

[2]. **Alignment method of protein interaction network**

Jianliang Gao, Ling Tian, **Tengfei Lyu**; China Invention Patent; Publication Patent Number: CN109767809A

Other Projects ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━

[1]. **Research on Drug Interaction Algorithm Based on Graph Neural Network**

Project Leader, the Fundamental Research Funds for the Central Universities of Central South University, No.2021zzts0740

[2]. **A Disambiguation Algorithm for Authors with the Same Name Based on Graph Neural Network**

Member, Hunan Provincial Innovation Foundation for Postgraduate, No. CX20200108

Awards and Honors ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━

2021.11   **Goodix Technology Scholarship Special Award**, 15,000 CNY, Awarded by Goodix Technology.

2021.10   **President Innovation Scholarship**, 24,000 CNY, Awarded by Central South University

2021.09   **First Prize of National Academic Scholarship**, 12,000 CNY, Awarded by Central South University

2020.11   **Third-Class Scholarship**, 3,000 CNY, Awarded by Wondershare Technology Co., Ltd.

2020.10   **National Scholarship**, 20,000 CNY, Awarded by Ministry of Education

2020.10   **Outstanding Student**, Awarded by Central South University

2020.09   **First Prize of National Academic Scholarship**, 12,000 CNY, Awarded by Central South University

2020.07   **ACM SIGIR Student Travel Grant**, ACM SIGIR Conference on Information Retrieval

2019.09   **First Prize of National Academic Scholarship**, 12,000 CNY, Awarded by Central South University

2018.10   **National Scholarship**, 8,000 CNY, Awarded by Ministry of Education

2018.10   **The First Prize Scholarship**, Awarded by Bohai Unversity

2018.06   **Principle's scholarship**, 10,000 CNY, Top Undergraduate Scholarship, 10 students in Bohai University

2018.06   **Merit Student**, Awarded by Jinzhou City

2017.10   **Liaoning Provincial Government Scholarship**, 8,000 CNY, Awarded by Department of Education of Liaoning Province

2017.10   **The First Prize Scholarship**, Awarded by Bohai Unversity

2017.06   **Excellent League Member**, Awarded by Jinzhou City

2016.10   **National Scholarship**, 8,000 CNY, Awarded by Ministry of Education

2016.10   **The First Prize Scholarship**, Awarded by Bohai Unversity

吕腾飞 (Tengfei Lyu)

湖南省长沙市岳麓区麓山南路 932 号

📱 (+86) 156-7583-3763 | ✉ tengfeilyu@csu.edu.cn | 🏠 tfeilyu.github.io/ | 🅖 Google Scholar

研究兴趣: 图数据挖掘, 图神经网络, 知识图谱, 机器学习, 智慧医疗等

教育经历

中南大学
硕士，计算机技术，计算机学院

湖南, 长沙

2019.09 - 2022.06

- **GPA :** 3.6/4.0
- 双一流 A 类高校、985、211

静宜大学
交换生

台湾, 台中

2017.09 - 2018.01

- 在此期间，重点研修了《算法导论》、《操作系统》等六门课程，成绩优秀，平均分为 94.83

渤海大学
学士，计算机科学与技术 (软件开发)，信息科学与技术学院

辽宁, 锦州

2015.09 - 2019.06

- **成绩排名:** 1/243; **GPA :** 4.01/5.0

学术论文

[1]. MDNN: A Multimodal Deep Neural Network for Predicting Drug-Drug Interaction Events

Tengfei Lyu, Jianliang Gao, Ling Tian, Zhao Li, Peng Zhang and Ji Zhang

The 30th International Joint Conference on Artificial Intelligence (**IJCAI**), 2021. **(CCF A)**

[2]. MGNN: A Multimodal Graph Neural Network for Predicting the Survival of Cancer Patients

Jianliang Gao, **Tengfei Lyu**, Fan Xiong, Jianxin Wang, Weimao Ke and Zhao Li

The 43th International ACM SIGIR Conference on Research and Development in Information Retrieval (**SIGIR**), 2020. **(CCF A)**

[3]. Predicting the Survival of Cancer Patients with Multimodal Graph Neural Network

Jianliang Gao, **Tengfei Lyu**, Fan Xiong, Jianxin Wang, Weimao Ke and Zhao Li

IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021. **(JCR Q1, CCF B)**

[4]. Enhancing Drug-Drug Interaction Event Prediction from Knowledge Graphs by Multimodal Deep Neural Networks

Jianliang Gao, **Tengfei Lyu***, Ling Tian, Zhao Li, Peng Zhang and Ji Zhang

IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021. Under Review, **(JCR Q1, CCF B)**

[5]. Multi-label Metabolic Pathway Prediction with Auto Molecular Structure Representation Learning

Jiamin Chen, Jianliang Gao, **Tengfei Lyu**, Babatounde Moctard Oloulade, and Xiaohua Hu

IEEE International Conference on Bioinformatics and Biomedicine (**BIBM**), 2021. **(CCF B)**

[6]. Protein2Vec: Aligning Multiple PPI Networks with Representation Learning

Jianliang Gao, Ling Tian, **Tengfei Lv**, Jianxin Wang, Bo Song and Zhao Li

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[7]. GraphPAS: Parallel Architecture Search for Graph Neural Networks

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The 44th International ACM SIGIR Conference on Research and Development in Information Retrieval **(SIGIR)**, 2021. **(CCF A)**

[8]. Graph Neural Architecture Search: A Survey

BABATOUNDE OLOULADE, Jianliang Gao, Jiamin Chen, **Tengfei Lyu**, Raeed Al-Sabri

Tsinghua Science and Technology, 2021. **(JCR Q1)**

发明专利

[1]. 基于多模态深度神经网络的药物-药物相互作用事件预测方法、系统、终端及可读存储介质

高建良, **吕腾飞**; 国家发明专利; 公开号: CN113012770A

[2]. 蛋白质相互作用网络的对齐方法

高建良, 田玲, **吕腾飞**; 国家发明专利; 公开号: CN109767809A

其他项目

[1]. 基于图神经网络的药物相互作用算法研究

负责人, 中南大学研究生自主探索项目, No.2021zzts0740

[2]. 基于图神经网络的重名作者消歧算法

参与人, 湖南省研究生创新项目 (省级重点), No. CX20200108

奖励荣誉

2021.11　**汇顶科技奖学金特等奖**，15,000 CNY, 汇顶科技

2021.10　**校长创新奖学金**，24,000 CNY, 中南大学

2021.09　**国家学业奖学金一等奖**，12,000 CNY, 中南大学

2020.11　**三等奖学金**，3,000 CNY, 万兴科技

2020.10　**国家奖学金**，20,000 CNY, 中华人民共和国教育部

2020.10　**优秀学生**，中南大学

2020.09　**国家学业奖学金一等奖**，12,000 CNY, 中南大学

2020.07　**ACM SIGIR Student Travel Grant**，ACM SIGIR Conference on Information Retrieval

2019.09　**国家学业奖学金一等奖**，12,000 CNY, 中南大学

2018.10　**国家奖学金**，8,000 CNY, 中华人民共和国教育部

2018.10　**学习优秀奖一等奖**，渤海大学

2018.06　**校长奖学金**，10,000 CNY, 渤海大学最高奖学金, 10 人/年

2018.06　**三好学生**，辽宁省锦州市

2017.10　**辽宁省政府奖学金**，8,000 CNY, 辽宁省教育厅

2017.10　**学习优秀奖一等奖**，渤海大学

2017.06　**优秀共青团员**，辽宁省锦州市

2016.10　**国家奖学金**，8,000 CNY, 中华人民共和国教育部

2016.10　**学习优秀奖一等奖**，渤海大学