# Tengfei Lyu (吕腾飞)

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

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| **☑** tengfeilyu@csu.edu.cn

| S Google Scholar

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

## Education \_\_\_\_

## **Central South University**

Changsha, Hunan

**MASTER:** COMPUTER SCIENCE AND 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

Sept. 2015 - June 2019

• Ranking: 1/243; GPA: 4.17/5.0

# 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

Tengfei Lyu, Jianliang Gao, 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]. 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)

#### [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]. 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

# [3]. Participated in the compilation of the "Thirteenth Five-Year" planning textbook "Spark Big Data Programming Fundamentals (Scala Edition)" for data science and big data technology

**Member**, Mainly responsible for the content compilation of RDD chapters. The textbook was officially published in March 2019. The homepage of the textbook is http://aibigdata.csu.edu.cn 。

# Awards and Honors \_\_\_\_\_

2020.07	$\textbf{Student Travel Grant}, \ ACM \ SIGIR \ Conference \ on \ Information \ Retrieval$
2020.10	National Scholarship, Awarded by Central South University
2020.10	Outstanding Student, Awarded by Central South University
2020.09	First-Class Academic Scholarship, Awarded by Central South University
2020.11	Third-Class Scholarship, Awarded by Wondershare
2018.10	National Scholarship, Awarded by Bohai University
2018.10	<b>The First Prize Scholarship</b> , Awarded by Bohai University
2018.06	<b>Principle's scholarship</b> , Awarded by Bohai University
2018.06	Merit Student, Awarded by Jinzhou City
2017.10	$\textbf{Liaoning Provincial Government Scholarship}, \ \textbf{Awarded by Bohai University}$
2017.10	<b>The First Prize Scholarship</b> , Awarded by Bohai University
2017.06	<b>Excellent League Member</b> , Awarded by Jinzhou City
2016.10	National Scholarship, Awarded by Bohai University
2016.10	The First Prize Scholarship, Awarded by Bohai University

# 吕腾飞 (Tengfei Lyu)

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Stengfeilyu@csu.edu.cn | Stellyu.github.io/ | S 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 长沙,湖南

硕士, 计算机技术, 计算机学院

2019.09 - 2022.06

• **GPA:** 3.6/4.0

• 双一流 A 类高校、985、211

静宜大学 台中,台湾

交换生 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 锦州, 辽宁

学士, 计算机科学与技术(软件开发), 信息科学与技术学院

2015.09 - 2019.06

· 排名: 1/243; GPA: 4.17/5.0

# 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)

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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)

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# [5]. 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)

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

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

## [7]. Graph Neural Architecture Search: A Survey

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

[3]. 参与数据科学与大数据技术"十三五"规划教材《Spark 大数据编程基础 (Scala 版)》编写

参与人, 主要负责 RDD 章节内容编写,该教材已于 2019 年 3 月正式出版,教材主页为 http://aibigdata.csu.edu.cn 。

# 奖励荣誉.

- 2020.07 Student Travel Grant, ACM SIGIR Conference on Information Retrieval
- 2020.10 国家奖学金, 中南大学
- 2020.10 优秀学生, 中南大学
- 2020.09 一等学业奖学金, 中南大学
- 2020.11 三等奖, 万兴科技奖学金
- 2019.9 推免奖学金,中南大学
- 2018.10 国家奖学金, 渤海大学
- 2018.10 学习优秀奖一等奖, 渤海大学
- 2018.06 校长奖学金, 渤海大学
- 2018.06 三好学生, 锦州市
- 2017.10 辽宁省政府奖学金, 渤海大学
- 2017.10 学习优秀奖一等奖,渤海大学
- 2017.06 优秀共青团员, 锦州市
- 2016.10 国家奖学金, 渤海大学
- 2016.10 学习优秀奖一等奖,渤海大学