

# ZIYUE (JULIUS) YU

(853) 68657218 / (86) 17774008244 ◇ Macao SAR, China

[csziyue.yu@outlook.com](mailto:csziyue.yu@outlook.com) ◇ <https://ziyue-yu.github.io/>

## RESEARCH INTERESTS

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Medical Informatics, Data Mining in Healthcare, Disease Risk Prediction

## EDUCATION

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**PhD in Computer Applied Technology**, Macao Polytechnic University (MPU) Now

Primary Supervisor: [Prof. Giovanni Pau](#) ([University of Bologna](#) / [University of California, Los Angeles](#))

Co-supervisors: [Prof. Tansim \(Rita\) Tse](#), [Dr. Wuman \(Amy\) Luo](#)

**MSc in Advanced Information Systems**, Hong Kong Baptist University July 2020

**BSc in Computer Science and Technology**, Zhejiang Chinese Medical University (Binjiang) June 2019

## PUBLICATIONS

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- **Z. Yu.**, J. Wang., W. Luo., R. Tse., and G. Pau., “Multi-Perspective Patient Representation Learning for Disease Prediction on Electronic Health Records”, Under review by Knowledge and Information Systems. [CCF-B, SCIE JCR Q3, IF:2.7]
- W. Zhu, J. Qiu, **Z. Yu.**, W. Luo., “Personalized Document Level Sentiment Analysis: A Systematic Literature Review”, Under review by Neurocomputing. [CCF-C, SCIE JCR Q2, IF: 6.0]
- **Z. Yu.**, J. Wang., W. Luo., R. Tse., and G. Pau., “MPRE: Multi-perspective Patient Representation Extractor for Disease Prediction”, Accepted as a regular paper by 23rd IEEE International Conference on Data Mining (ICDM), 2023. [CORE A\*, CCF-B, EI] (acceptance rate: 9.37%, **best-ranked paper**)
- J. Qiu., **Z. Yu.**, W. Luo., “UCM: Personalized Document-level Sentiment Analysis Based on User Correlation Mining”, In International Conference on Intelligent Computing, pp. 456-471, Springer Nature Singapore, 2023. [CCF-C, EI]
- **Z. Yu.**, W. Luo., R. Tse., and G. Pau., “DMNet: A personalized risk assessment framework for elderly people with type 2 diabetes”, IEEE Journal of Biomedical and Health Informatics, vol. 27, no. 3, pp. 1558-1568, 2023, [CORE A\*, SCIE JCR Q1, IF: 7.7] ([Medical Informatics Cover Paper](#))
- **Z. Yu.**, L. He., W. Luo., R. Tse., and G. Pau., “Deep learning hybrid models for COVID-19 prediction,” Journal of Global Information Management, vol. 30, no. 10, pp. 1-20, 2022. [SSCI JCR Q2, IF: 4.7]
- **Z. Yu.**, L. He., W. Luo., R. Tse., and G. Pau., “Deep learning for covid-19 prediction based on blood test,” in Proceedings of the 6th International Conference on Internet of Things, Big Data and Security - IoTBDS, pp. 103–111, SciTePress, 2021. [EI] ([Best Student Paper Award](#))

## SELECTED HONORS AND AWARDS

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- MPU Macao PhD Full Scholarship 2020 - 2023
- IoTBDS Best Student Paper Award 2021
- Hong Kong Baptist University Merit Scholarship 2020

- The Second Prize of Network and Information Security Contest in Zhejiang 2018
- The Second Prize of Physics Technology Innovation Contest at Zhejiang Chinese Medical University 2018
- The Third Prize of Statistical Investigation Scheme Design Contest in Zhejiang 2017
- The Third Prize of Mathematical Contest in Modeling in Jiangsu 2016

## INVITED PRESENTATIONS

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- Machine Learning on Graph, Faculty of Applied Sciences, Macao Polytechnic University 2022
- Graph Representation Learning, School of Medical Technology, Zhejiang Chinese Medical University 2021
- How to Give an Effective Presentation, Faculty of Applied Sciences, Macao Polytechnic University 2021
- Deep Learning on Graph, Institute of Chinese Medical Sciences & State Key Laboratory of Quality Research in Chinese Medicine, University of Macau 2021

## ACADEMIC ACTIVITIES

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- Oxford Machine Learning Summer School June 2022 & August 2022
- Machine Learning Summer School, Taipei, Taiwan August 2021

## PROFESSIONAL MEMBERSHIP

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- Institute of Electrical and Electronics Engineers (IEEE) Graduate Student Member

## TEACHING EXPERIENCE

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- COMP112 Programming I (Teaching Assistant), 2022/2023
- COMP8122 Selected Topics in Big Data and Smart Society (Teaching Assistant), 2022/2023
- COMP6126 E-commerce with Big Data (Teaching Assistant), 2022/2023
- COMP6132 Introduction to Big Data (Teaching Assistant), 2023/2024

## SERVICES

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- Conference Reviewer: ICDCS 2022 - 42nd International Conference on Distributed Computing Systems
- Conference Reviewer: ArtInHCI 2023 - International Conference on Artificial Intelligence and Human-Computer Interaction