Yujia Feng

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Research Objective

- Licensed practical doctor with 3 years of rotation experience providing treatment protocols to patients in hospitals, aspiring to pursue doctoral research with the aim of employing scientific inquiry to more effectively address clinical challenges, thereby advancing proficiency as a clinician.
- Passionate researcher with 5 years of experience in bioinformatics analysis and cohort studies. The strategy for further study involves the utilization of bioinformatics methodologies to elucidate diverse disease-associated genes and biomarkers. Subsequently, animal models and clinical specimens will be employed for validation purposes.

Education

Wuhan University (Project 985)   **09/2020 – 06/2023**
Second School of Clinical Medicine

Master of Internal Medicine (Major in Cardiovascular Medicine)
GPA: 91.97/100 (3.68/4.00)

Wuhan University (Project 985)   **09/2015 – 06/2020**
School of Medicine

Bachelor of Clinical Medicine
GPA: 85/100 (3.42/4.00) (Ranking:1/40)

Honors & Awards

- 10/2022—Awarded the First Prize Graduate Excellent Academic Scholarship of Wuhan University
- 10/2022—Recognized as an Outstanding Graduate of Wuhan University
- 06/2022—Recognized as an Outstanding Student Leader for the year 2022
- 12/2021—Second Prize in the Team Category of the 3rd Clinical Thinking Competition held by Zhongnan Hospital of Wuhan University
- 12/2021—Second Prize in the Individual Category of the 3rd ECG Championship held by Zhongnan Hospital of Wuhan University
- 10/2021—Awarded the First Prize Graduate Excellent Academic Scholarship of Wuhan University, recognized as an Outstanding Graduate of Wuhan University
- 05/2020—Outstanding Bachelor Graduates of Wuhan University
- 12/2019—Third Prize in the 6th Clinical Skills Competition of the Wuhan University school of medicine
- 12/2019—Awarded the First Prize Scholarship for Outstanding Students of Wuhan University, awarded the Huang Zhangren Special Scholarship, recognized as a merit student by Wuhan University
- 04/2019—First Prize in the Anatomy Illustration Competition held by the School of Basic Medical Sciences of Wuhan University
- 12/2018—Awarded the Second Prize Scholarship for Outstanding Students of Wuhan University, and recognized as a Merit Student by Wuhan University

- 10/2018─Outstanding Award in the Second National Internet Plus Smart Simulated Medical Clinical Skills Competition
- 12/2017—Awarded the Second Prize Scholarship for Outstanding Students of Wuhan University, and recognized as an Excellent Student by Wuhan University
- 09/2017─Active Participant in Student Social Activities of Wuhan University
- 12/2016—Awarded the Third Prize Scholarship for Outstanding Students of Wuhan University, and recognized as an Excellent Student by Wuhan University
- 12/2016─Advanced Individual of Student Association Guidance Center of Wuhan University
- 05/2016─Third Prize in the Individual Category of the Inaugural Basic Experimental Skills Competition held by the School of Basic Medical Sciences of Wuhan University

Leadership & Volunteer Experience

Social Volunteers, Membership   **02/2020 – present**

- Providing pro bono consultation, guidance, and assistance to patients in need within the hospital outpatient department
- Conducting promotional and educational activities on hypertension, hyperlipidemia, and coronary heart disease for the elderly population in the community, while also offering complimentary consultations and assistance
- Volunteer to contribute blood donation to patients in need

Student Association Guidance Center, President   **04/2018 – 04/2019**

- Participated in organizing the 7th Student Association International Exchange Camp and the 'Top Ten Student Association of Wuhan University' Selection Evening for the 2016-2017 academic year

Wuhan University Model United Nations Association, Vice President   **09/2015 – 06/2016**

- Participated in the National College Students Model United Nations Conference organized by Huazhong University of Science and Technology

Debate Team, Membership   **09/2015 – 06/2016**

- Third Prize in the Freshman Debate Tournament held by the School of Basic Medical Sciences of Wuhan University in 2015

Research Experiences

Research Assistant ｜ Zhongnan Hospital of Wuhan University   **06/2023 – present**

- Planned to fulfill the objectives of the Hubei Province hyperlipidemia project use latent class analysis (LCA) and bioinformatics analysis and to enhance the comprehensiveness of the previously conducted cohort study data

MMed Researcher ｜ Wuhan University   **09/2020 – 06/2023**

- **Project: utilized R and Mplus software for latent class analysis (LCA) and bioinformatics analysis of the association between blood lipids and coronary atherosclerosis.**
- **Project: utilized Navicat software to conduct analysis on the MIMIC-III database, aiming to**

study the influence of blood lipids on the prognosis of patients with coronary heart disease (CAD).

- **Responsible for the latent class analysis (LCA) and bioinformatics analysis of the project** aimed at establishing and applying an assessment and management framework for hyperlipidemia in Hubei Province. The primary focus was on unraveling multimorbidity patterns and corresponding risk factors within the population of Hubei Province. Furthermore, the project also aims to utilize bioinformatics analysis to uncover genes and signaling pathways associated with coronary atherosclerosis, and validation is planned through the utilization of animal models and clinical patient specimens.

- **Project: employed the R, SPSS, and STATA software for network meta-analysis and retrospective cohort study on the optimal timing of non-culprit Coronary artery Intervention.**

- **Designed and performed a network meta-analysis** to compare the three intervention strategies (i.e., complete revascularization (CR), staged revascularization (SR), and culprit-only revascularization (COR)). The study aimed to determine the optimal strategy for revascularization in ST-segment elevation myocardial infarction (STEMI) patients with multivessel CAD.

- **Designed and led a retrospective cohort study** within the Department of Cardiovascular Medicine and enrolled 980 patients with STEMI who underwent primary percutaneous coronary intervention (PPCI) from January 1st, 2016 to December 31st, 2019. The study aimed to compare the impact of four strategies of non-culprit coronary artery intervention (i.e., CR, staged revascularization during hospitalization (SR-in), staged complete revascularization after discharge (SR-out), COR) on the long-term prognosis of patients.

- **Led a retrospective cohort study** focusing on the relationship between blood lipid indicators and the severity of CAD. This research encompassed the categorization of a cohort exceeding 1000 cases of CAD patients. Data curation and analysis were executed employing R, SPSS, and STATA software, ultimately culminating in the drafting, and revision of the manuscript.

MBBS Researcher | Wuhan University   07/2017 – 06/2020

- **Project: Utilizing the GEO datasets for bioinformatics analysis of bladder cancer.**

- **Led a bioinformatics analysis** of GEO datasets to clarify the relationship between a gene named KIF2C expression and clinicopathological characteristics of bladder cancer, and to evaluate the possibility of using KIF2C as a prognosis marker in bladder cancer.

- **Participated as a principal analyst** in a study utilizing gene co-expression networks for the analysis of bladder cancer biomarkers.

Publications

[1] Li Y†, **Feng Y†**, Li S, Ma Y, Lin J, Wan J, et al. The atherogenic index of plasma (AIP) is a predictor for the severity of coronary artery disease. *Front Cardiovasc Med.* (2023)10:1140215. doi:10.3389/fcvm.2023.1140215 (Q2, IF 6.22, **co-first author**)

[2] Li Y†, **Feng Y†**, Zhong Y, Li S, Lin J, Wan J, et al. The Atherogenic Index of Plasma is a predictor for chronic total occlusion and coronary collateral circulation formation in CTOs patients. *Reviews in cardiovascular medicine*. 2023 Accepted (Q3, **co-first author**)

[3] Liu C, Li Z, Zhao B, Dai Z, Wang R, **Feng Y**, et al. Ambient ozone exposure and the severity of coronary heart disease: a predicting role of aspartate aminotransferase. *Medical Journal of Wuhan University*,(2023):1-7.(In Chinese; Chinese Scientific and Technical Papers and Citation Database (CSTPCD))

[4] **Feng Y**, Li S, Hu S, Wan J, Shao H. The optimal timing for non-culprit percutaneous coronary

intervention in patients with multivessel coronary artery disease: A pairwise and network meta-analysis of randomized trials. *Front Cardiovasc Med.* (2022)9: 1000664. doi:10.3389/fcvm.2022. (Q2, IF 6.22, **first author**)

[5] **Feng Y**, Li S, Hu S, Wan J. Performing latent class analysis using R poLCA package. *Chinese Journal of Health Statistics*, 2022 accepted. (In Chinese; core journals of Peking University, **first author**)

[6] Li J, Guo T, Dong D, Zhang X, Chen X, **Feng Y**, et al. Defining heart disease risk for death in COVID-19 infection. *QJM.* (2020)113(12): 876-82. doi:10.1093/qjmed/hcaa246. (Q1, IF 13.3)

[7] **Feng Y**, Jiang J , Yan X, Guo Z, Li S, Meng X, et al. Analysis of clinical significance of expression of KIF2C in bladder cancer utilizing GEO datasets. *Translational Medicine Journal*, 2019,8(01):15-18. (In Chinese; Chinese Scientific and Technical Papers and Citation Database (CSTPCD), **first author**)

[8] Yan X, Guo ZX, Liu XP, **Feng YJ**, Zhao YJ, Liu TZ, et al. Four novel biomarkers for bladder cancer identified by weighted gene coexpression network analysis. *J CELL PHYSIOL.* (2019)234(10):19073-87. doi:10.1002/jcp.28546. (Q1, IF 6.39)

[9] Bi Y, Jiang J, Yan X, Yuan J, Guo Z, **Feng Y**, et al. Expression of MMP-11 in bladder cancer and its clinical significance. *J Clin Urology*, 2019,34(03):197-201. (In Chinese; Core Journals of Peking University)

[10] **Feng Y**, Guo Z, Zeng X, Liu X. Performing robust variance estimate analysis using R robust package. *Chin J Evid Based Cardiovasc Med*, 2018,10(02):143-146. (In Chinese; Chinese Scientific and Technical Papers and Citation Database (CSTPCD), **first author**)

[11] Guo Z, **Feng Y**, Wang Q, Zeng X, Liu X. How to implement meta-analysis using R package metaplus. *Chinese Journal of Evidence-based Medicine*, 2018,18(07):763-768. (In Chinese; Core Journals of Peking University)

[12] Yan X, Guo Z, Yuan J, **Feng Y**, Li J, Li S. Expression of targeting protein for TPX2 in bladder cancer and its clinical significance. *Electron J Metab Nutr Cancer*,2018,5(03):292-296. (In Chinese; Chinese Science Citation Database)

[13] Hu S, **Feng Y**, Liu S, Wan J. One year prognosis of chronic complete occlusive disease after percutaneous coronary intervention. *Medical Journal of Wuhan University*, Accepted. (In Chinese; Chinese Scientific and Technical Papers and Citation Database (CSTPCD))

Internship & rotation

Rotate in Internal Medicine, Zhongnan Hospital of Wuhan University   09/2020 – 06/2023

- Residency training for 3 years
- Obtained the certification as a licensed medical practitioner in China
- Annual Outstanding Resident Physician of Zhongnan Hospital of Wuhan University in 2021

Internship at Zhongnan Hospital of Wuhan University   06/2019 – 06/2020

- Completed Internship rotations in the fields of Internal Medicine, Surgery, Obstetrics and Gynecology, and Pediatrics

Skills

- **Computer languages:** R, SQL
- **Software & Toll:** SPSS, STATA, R, Navicat, Rev Man, PASS, Cytoscape, Mplus, Office, Photoshop