

# Fang Zhu

MD.,PhD.

## Curriculum Vitae

August 2024

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## About me

- Aspirant pathologist interest in forensic, surgical, and digital pathology
- Biostatistician with a track record on clinical evidence-based research

## Education

Aug 2010 – Oct 2013	<b>Doctor of Philosophy</b> The Chinese University of Hong Kong	Hong Kong
	➤ Epidemiology stream	
Sep 2000 – Jun 2007	<b>Bachelor and Master in Medicine (Seven-Year Program)</b> Xiangya School of Medicine, Central South University	Hunan, China

## Clinical experience

Aug 2024 (1 month)	<b>Pathology Observer</b> University of Minnesota	Minneapolis, MN
Jul 2024 (4 weeks)	<b>Pathology Observer</b> Niagara Falls Memorial Health Care	Buffalo, NY
Jun 2023 - Mar 2024	<b>ER/ICU volunteer</b> Royal Columbia Hospital	BC, Canada
	➤ Assist patients in the ER, address inquiries, support visitors and staff	
Jul 2007 – May 2010	<b>Anesthesiologist</b> Department of Anesthesiology, Yueyang No.1 Hospital	Hunan, China
Feb 2006 - Jun 2007	<b>Resident</b> Department of Anesthesiology, Xiangya Hospital	Hunan, China
Jun 2005 - Feb 2006	<b>Intern</b> Xiangya Hospital & Changsha First Hospital	Hunan, China

## Research experience

Jan, 2022 – present	<b>Biostatistician</b> Systematic Review Consultants LTD	Nottingham City, United Kingdom (remote)
	➤ Direct systematic review protocols and statistical analysis for guideline development for client including WHO etc.	
Apr 2022 – May 2023	<b>Biostatistician</b> Raincity-Analytics	BC, Canada
	➤ Led statistical analysis, data visualization in multiple projects on hematological malignancy and facilitated internal R training	
Apr 2016 – Sep 2017	<b>Research Methodologist</b> MEDICI Centre, Dept. of Anesthesia and Perioperative Medicine, Western University	ON, Canada
	➤ Delivered statistical expertise for clinical research and pivotal role in projects including WHO guideline, systematic reviews and meta-analysis	
Feb 2014 – Mar 2016	<b>Postdoctoral Fellow</b> MEDICI Centre, Dept. of Anesthesia and Perioperative Medicine, Western University	ON, Canada
	➤ Delivered statistical expertise for clinical research and pivotal role in projects including WHO guideline, systematic reviews and meta-analysis	

Aug 2010 – Oct 2013 **Research Associate**

Hong Kong

Dept. of Anaesthesia and Intensive Care, The Chinese University of Hong Kong

- Led clinical trials as principal investigator on fast-track perioperative care; managed team collaborations; facilitated patient interactions

## Publications

1. Providencia, R., Aali, G., Zhu, F., Leas, B. F., Orrell, R., Ahmad, M., Bray, J. J. H., Pelone, F., Nass, P., Marijon, E., Cassandra, M., Celermajer, D. S., & Shokraneh, F. (2024). Penicillin allergy testing and delabeling for patients who are prescribed penicillin: A systematic review for a world health organization guideline. *Clinical Reviews in Allergy & Immunology*, 66(2). <https://doi.org/10.1007/s12016-024-08988-2>
2. Providência, R., Aali, G., Zhu, F., Katairo, T., Ahmad, M., Bray, J. J. H., Pelone, F., Khanji, M. Y., Marijon, E., Cassandra, M., Celermajer, D. S., & Shokraneh, F. (2024). Handheld echocardiography for screening and diagnosis of rheumatic heart disease: Systematic review for the WHO-guideline. *Lancet Global Health*, 12(6). [https://doi.org/10.1016/S2214-109X\(24\)00127-X](https://doi.org/10.1016/S2214-109X(24)00127-X)
3. Rui, P., G, A., Fang, Z., T, K., M, A., JH, B., F, P., E, M., M, C., DS, C., & F, S. (2024). Simplified algorithms versus modified jones criteria to diagnose acute rheumatic fever: A systematic review and meta-analysis of diagnostic test accuracy for the new world health organization guideline. (Submitted).
4. societies, T. W. group of scientific medical. (2022). Diagnosis and therapy of carpal tunnel syndrome. *AWMF Online*, 5(3). <https://doi.org/https://www.awmf.org/leitlinien/detail/II/005-003.html>
5. Ren, H., Luo, X., Wang, Y., Guo, X., Hou, H., Zhang, Y., Yang, P., Zhu, F., Hu, C., Wang, R., Sun, Y., Du, Y., Yin, Q., Xu, G., Zuo, H., Hu, Q., & Wang, Y. (2021). Psychological responses among nurses caring for patients with COVID-19: A comparative study in china. *Translational Psychiatry*, 11(273). <https://doi.org/10.1038/s41398-020-00993-1>
6. Zhu, F., Chui, J., Herrick, I., & Martin, J. (2019). Intraoperative evoked potential monitoring for detecting cerebral injury during adult aneurysm clipping surgery: A systematic review and meta-analysis of diagnostic test accuracy. *BMJ Open*, 9(2). <https://doi.org/10.1136/bmjopen-2018-022810>
7. Chui, J., Saeed, R., Jakobowski, L., Wang, W., Eldeyasty, B., Zhu, F., Fochesato, L., Lavi, R., & Bainbridge, D. (2018). Is routine chest x-ray after ultrasound-guided central venous catheter insertion choosing wisely? A population-based retrospective study of 6,875 patients. *Chest*, 154(1). <https://doi.org/10.1016/j.chest.2018.02.017>
8. Lee, M., Zhu, F., Moodie, J., Zhang, Z., Cheng, D., & Martin, J. (2017). Remifentanyl as an alternative to epidural analgesia for vaginal delivery: A meta-analysis of randomized trials. *J Clin Anesth*, 63(3). <https://doi.org/10.1016/j.jclinane.2017.03.026>
9. Martin, J., Lal, A., Moodie, J., Zhu, F., & Cheng, D. (2017). Hospital-based HTA and Know4Go at MEDICI in london, ontario, canada. In *Book: Hospital- Based Health Technology Assessment: The Next Frontier for Health Technology Assessment*, 2016(12). [https://doi.org/10.1007/978-3-319-39205-9\\_12](https://doi.org/10.1007/978-3-319-39205-9_12)
10. Wang, L., & Zhu, F. (2017). Hospital-based HTA in china. In *Book: Hospital-Based Health Technology Assessment: The Next Frontier for Health Technology Assessment*, 2016(12). [https://doi.org/10.1007/978-3-319-39205-9\\_24](https://doi.org/10.1007/978-3-319-39205-9_24)
11. Wang, L., Johnston, B., Kaushal, A., Cheng, D., Zhu, F., & Martin, J. (2016). Ketamine added to morphine or hydromorphone patient-controlled analgesia (PCA) for acute postoperative pain in adults: A systematic review and meta-analysis of randomized trials. *Can J Anaesth*, 63(3). <https://doi.org/10.1007/s12630-015-0551-4>. Epub 2015 Dec 10
12. Zhu, F., Gomersall, C. D., Ng, S. K., Underwood, M. J., & Lee, A. (2015). A randomized controlled trial of Adaptive support ventilation mode to wean patients after fast-track cardiac valvular surgery. *Anesthesiology*, 122(44). <https://doi.org/10.1097/ALN.0000000000000589>
13. Lee, A., Zhu, F., Underwood, M. J., & Gomersall, C. D. (2013). Fast-track failure after cardiac surgery: External model validation and implications to ICU bed utilization. *Critical Care Medicine*, 41(5). <https://doi.org/10.1097/CCM.0b013e31827711ad>
14. Yang, X. X., Critchley, L. A., Rowlands, D. K., Fang, Z., & Huang, L. (2013). Systematic error of cardiac output measured by bolus thermodilution with a pulmonary artery catheter compared with that measured by an aortic flow probe in a pig model. *J Cardiothorac Vasc Anesth*, 27(6). <https://doi.org/10.1053/j.jvca.2013.05.020>
15. Zhu, F., Lee, A., & Chee, Y. E. (2012). Fast-track cardiac care for adult cardiac surgical patients. *Cochrane Database of Systematic Reviews*, 10(3587). <https://doi.org/10.1002/14651858.CD003587.pub2>
16. Yang, X., Critchley, L. A., Zhu, F., & Tian, Q. (2011). Performance of thermodilution catheters under control and extreme circulatory conditions in a pig model. *Critical Care*, 15(1). <https://doi.org/10.1186/cc9466>

## Certificates

2024 **Virtual Gross Rounds Distal Gastrectomy (Carcinoma)**

2024	<b>AI for Medical Treatment (DeepLearning.AI on Coursera)</b>
2024	<b>AI for Medical Prognosis (DeepLearning.AI on Coursera)</b>
2024	<b>AI for Medical Diagnosis (DeepLearning.AI on Coursera)</b>
2024	<b>Cleveland Clinic Multispecialty Pathology Symposium (Certificate of Participation)</b>
2017	<b>Survival Analysis for HTA Course (University of Glasgow)</b>
2015	<b>Biostatistics 2 (Statistics.com, The institute For Statistics Education)</b>
2015	<b>Meta-Analysis &amp; Network Meta-Analysis: Concepts, Methods, Applications (McMaster University)</b>
2014	<b>Health Technology Assessment Course (University of Sheffield)</b>
2014	<b>Collaborative Institutional Training Initiative (CITI): GCP and Ethics (Western University)</b>

## **Skills and Hobbies**

USMLE Score	<b>Step 1: Pass (2023, first attempt), Step 2CK: 231 (2023, first attempt)</b>
OET Score	<b>Listen 380, Written 380, Reading 420, Speaking 390 (2023.12)</b>
Language	<b>Native Chinese, Proficient English, Intermediate Japanese</b>
Computer	<b>Proficient in programming language R, Stata, familiar in Python, SQL etc.</b>
Hobbies	<b>Reading and Writing, Sci-Fi, Yoga, Hiking, Cycling, Jazz music</b>