

Fang Zhu

MD.,PhD.

Curriculum Vitae

August 2024

📍 Burnaby, BC, Canada
🗨 she/her
☎ +1 763 910 7904
✉ fang.zhu.md@gmail.com
🐦 @DrFangZhu
🌐 fangzhuca

About me

- Aspirant pathologist interest in anatomical and clinical pathology
- Biostatistician with a track record on evidence-based research

Education

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

Clinical experience

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

Research experience

Jan, 2022 – present	Biostatistician 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	Biostatistician Raincity-Analytics	BC, Canada
	➤ Led statistical analysis, data visualization in multiple projects on hematological malignancy and facilitated internal R training	
Apr 2016 – Sep 2017	Research Methodologist 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	Postdoctoral Fellow 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

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

Skills and Hobbies

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