Fang Zhu
MD.,PhD.

Curriculum Vitae
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About me

➤ Pathology applicant / AAMC ID: 16364603 / ECFMG Certified (valid till 2027)
➤ Step 1: Pass (2023, first attempt), Step 2CK: 231 (2023, first attempt), Step 3 (Scheduled)
➤ Biostatistician with a track record on evidence-based medicine research

Education

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

Clinical experience

Nov 2024 (2 weeks)	**USCE: Pathology Observer (upcoming)** Cleveland Clinic, Pathology and Laboratory Medicine Institute	Cleveland, OH
Oct 2024 (1 month)	**USCE: Pathology Observer (upcoming)** Emory University, Dept. of Pathology and Laboratory Medicine	Atlanta, GA
Sep 2024 (1 month)	**USCE: Pathology Observer** University of Colorado, Dept. of Pathology	Buffalo, NY
Aug 2024 (1 month)	**USCE: Pathology Observer** University of Minnesota, Dept. of Laboratry Medicine and Pathology	Minneappolis, MN
Jul 2024 (4 weeks)	**USCE: Pathology Observer** Niagara Falls Memorial Health Care, Dept. of Pathology	Buffalo, NY
Jun 2023 - Mar 2024	**ER/ICU volunteer** Royal Columbia Hospital	BC, Canada
Jul 2007 – May 2010	**Anesthsiologist** Yueyang First Hospital	Hunan, China
Feb 2006 - Jun 2007	**Resident** 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	Oxford, United Kingdom (remote)
Apr 2022 – May 2023	**Biostatistician** Raincity-Analytics	BC, Canada
Apr 2016 – Sep 2017	**Research Methodologist** MEDICI Centre, Western University	ON, Canada
Feb 2014 – Mar 2016	**Postdoctral Fellow** MEDICI Centre, Western University	ON, Canada
Aug 2010 – Oct 2013	**Research Assistant** The Chinese University of Hong Kong	Hong Kong

Publications

1. Providência, 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

3. Providência, R., Aali, G., Zhu, F., Katairo, T., Ahmad, M., Bray, J. J. H., Pelone, F., Marijon, E., Cassandra, M., Celermajer, D. S., & Shokraneh, F. (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. AWMF, T. (2022). Diagnosis and therapy of carpal tunnel syndrome. *AWMF Online*, *5*(3). https://doi.org/https://www.awmf.org/leitlinien/detail/ll/005-003.htmll

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). Remifentanil 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

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

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 ofAdaptive 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	**ECFMG Certificate (valid till 2027)**
2024	**Gross Pathology-Overview of the Surgical Pathology Laboratory (PathElective)**
2024	**Gross Pathology-Common Gross Tumors (PathElective)**

2024	**Gross Pathology-Basics of Grossing (PathElective)**
2024	**Gross Pathology-Gross Photography (PathElective)**
2024	**Virtual Gross Rounds Distal Gastrectomy (University of Toronto)**
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

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**