Curriculum Vitae

1) Personal information

Name: Hao Wu, M.S.

Email: hao.wu@vanderbilt.edu

2) Education

- 2023.8-present **Vanderbilt University**
*PhD in Biostatistics, u*nder the supervision of Dr. Bryan E. Shepherd and Dr. Jinyuan Liu

- 2021.8-2023.5 **University of Michigan-Ann Arbor**
Master in Biostatistics, under the supervision of Dr. Lu Wang

Major Courses: Semiparametric Theory and Applications, Machine Learning, Longitudinal Analysis

- 2017.9-2021.7 **China Agricultural University**
Bachelor in Food science and Engineering   Minor: *Bachelor in Data Science*

3) Bibliography and products of scholarship

Peer-reviewed publications

*1. J Liu, M Chen, **H Wu,** H Cai, S Tu, E Lee, X Zhang (2025). An effective short form of the 20-item University of California Los Angeles Loneliness Scale version 3: item response theory and network psychometrics. General Psychiatry, 38 (4).*
*2. JN Fahmy, JS Nasser, **H Wu,** L Wang, KC Chung (2024). Impact of Regional Surgeon Competition on Use, Cost, and Outcomes of Breast Reconstruction in the United States. Plastic and Reconstructive Surgery, 10.1097.*
*3. AP Yoon, **H Wu**, WT Chung, L Wang, KC Chung (2024). Comparison of Long-Term Healthcare Cost and Utilisation of Nonoperative and Surgical Management of Thumb CMC Arthritis. The Journal of Hand Surgery (Asian-Pacific Volume), 29(03).*
*4. S Dwivedi, MN Cichocki, **H Wu**, CA Kettaneh, L Wang, et al. (2024). Factors in Hand Surgery Access for Rheumatoid Arthritis Before vs After the Patient Protection and Affordable Care Act. JAMA surgery, 159(4).*
*5. M Jayaram, **H Wu**, AP Yoon, RL Kane, L Wang, et al. (2023). Comparison of distal radius fracture outcomes in older adults stratified by chronologic vs physiologic age managed with casting vs surgery. JAMA network open, 6(2).*
*6. M Ji-kun, Z Nan, **WU Hao**, Z Xiu-qing (2023). Optimization of ultra-high pressure extraction technology of polysaccharide from Dendrobium officinale and its antioxidant activities. Food and Machinery, 39 (1).*

Publications in process

*1. **H Wu**, L Shao, TT Gui, TC Wu, Z Huang, S Tu, XM Tu, J Liu, T Lin. Why is Doubly-Robust Estimator for Causal Inference Not Doubly Robust? (Submitted to Biometrics Methodology)*

*2. Yoon Alfred, **Wu, Hao**, Lu Wang, Kevin C. Chung. Revision Thumb CMC Arthroplasty: Risk Factors and Healthcare Economic Implications (Accepted)*

*3. Grace Kambach, **Hao Wu**, Keipp Talbot. Outcomes of adults with COPD hospitalized with laboratory-confirmed influenza (Analysis completed)*

*4. JN Fahmy, JS Nasser, **H Wu**, L Wang, KC Chung. Use of Postoperative Prophylactic Antibiotics in Breast Surgery: Predictors of Adherence to Evidence-Based Guidelines (Submitted)*

Posters and conference proceedings

1. *Short course: Unlocking the Power of Semiparametric Models: A Practical Tutorial for Analyzing Complex Data with Minimum Assumptions, Joint Statistical Meetings (JSM): **H Wu**, T Lin, X Tu, JY Liu (2025). Augmented Weighted Generalized Estimating Equations of Longitudinal Data with Monotone Missing.*

2. *Conference: American Association of Plastic Surgeons (AAPS) (Poster): JN Fahmy, JS Nasser, **H Wu**, L Wang, KC Chung (2025). Decreasing Antibiotic and Surgical Site Infections in Reconstructive Breast Surgery: Results From a 2015 To 2022 National Evaluation.*

3. *Conference: American Association of Plastic Surgeons (AAPS) (Poster): JN Fahmy, JS Nasser, **H Wu**, L Wang, KC Chung (2024). The Association of Surgeon Density on Breast Reconstruction Access, Outcomes, and Cost in the United States.*

4) Mentoring Activities

Undergraduate Student Supervised Research

The table below lists supervised undergraduates who gained research experience from me. The responsibilities of students include performing research on a defined project, demonstrating skills in standard scientific methods, evaluating scientific data, and scientific troubleshooting.

Student	Degree/activities	Dates	Currently at
Ping He	Master	2022.8-2023.5	PhD at Vanderbilt University

5) Professional Service

2025-present   Biostatistics Graduate Student Association: first-year liaison.
Vanderbilt University

2023-present   Membership of International Chinese Statistical Association –
ICSA

2025-present   Membership of American Statistical Association 2025

2025- present   Membership of Eastern North American Region