

Curriculum Vitae

1) Personal information

Name: Hao Wu, M.S.

Email: hao.wu@vanderbilt.edu

Personal website: <https://haowu1701.github.io/>

2) Education

- 2023.8-present **Vanderbilt University**

PhD in Biostatistics, under 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

- 2017.9-2021.7 **China Agricultural University**

Bachelor in Food science and Engineering

Minor: *Bachelor in Data Science*

3) Bibliography and products of scholarship

Methodology publications

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)
2. **Hao Wu**, Chun Li, Bryan E. Shepherd. *Doubly Robust Estimators of Quantile Treatment Effects With Semiparametric Cumulative Probability Models* (Submitted)
3. **Hao Wu**, Tuo Lin, Xin M. Tu, Jinyuan Liu. *A Simple Augmentation of Weighted Generalized Estimating Equations for Doubly Robust Estimation in Longitudinal Data with Missingness* (Submitted)

Collaboration 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).
7. Yoon Alfred, **Hao Wu**, Lu Wang, Kevin C. Chung. Revision Thumb CMC Arthroplasty: Risk Factors and Healthcare Economic Implications (Accepted)
8. Grace Kambach, **Hao Wu**, Keipp Talbot. Outcomes of adults with COPD hospitalized with laboratory-confirmed influenza (Submitted)
9. 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) Professional Service

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| 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 |