Yunhong Wu

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EDUCATION

University of Wisconsin-Madison — **Madison, WI**
Doctor of Philosophy in Biomedical Data Science, GPA: 4.00/4.00 — *June 2022 – Expected Dec. 2026*

Harvard T.H. Chan School of Public Health — **Boston, MA**
Master of Science in Biostatistics, GPA: 3.93/4.00 — *Sept. 2018 – May 2020*

University of Wisconsin-Madison — **Madison, WI**
Bachelor of Science in Statistics, Minor in Computer Science, GPA: 3.92/4.00 — *Sept. 2014 – Dec. 2017*

EXPERIENCE

University of Wisconsin School of Medicine and Public Health — **Madison, WI**
Graduate Research Assistant; Supervisor: Dr. Richard Chappell — *June 2022 – Present*

- Proposed a monotone maximum likelihood estimator for the baseline hazard through the extension of Breslow estimator to address early-time survival probability underestimation in left-truncated and right-censored data with covariates, achieving greater efficiency.
- Improved penalized spline of propensity methods for treatment comparison with the incorporation of exact balancing weights.
- Investigated win ratio on interpretation of composite endpoints in clinical trials by comparing with hazard ratio using simulated data.

Takeda Pharmaceuticals — **Cambridge, MA**
Statistics PhD Intern — *May. 2024 – Aug. 2024*

- Evaluated the performance of population-adjusted indirect comparison (PAIC) methods with individual patient or aggregate data.
- Proposed a doubly robust estimator for unanchored PAICs, fulfilling the research recommendation in the original NICE guidance.

Boston Children's Hospital — **Boston, MA**
Biostatistician I; Supervisor: Dr. David Wypij — *June 2020 – June 2022*

- Conducted collaborative research with clinical investigators and contributed to writing protocols and statistical analysis plans.
- Assessed Generalized Estimating Equations with different smoothing functions to capture non-linear patterns in longitudinal data.

Vertex Pharmaceuticals — **Boston, MA**
Statistical Programming Intern — *May 2019 – Dec. 2019*

- Built a log message navigation tool with SAS Macro to boost up the efficiency of identifying and correcting issues in SAS log.

Eli Lilly (China) R&D Co., Ltd. — **Shanghai, China**
Biostatistics Intern — *Mar. 2018 – Aug. 2018*

- Developed an interactive web application with R-Shiny to facilitate design of clinical studies by visualizing trends of survival curves.

University of Wisconsin School of Medicine and Public Health — **Madison, WI**
Undergraduate Research Assistant; Advisor: Dr. Thomas Cook — *Apr. 2017 – Feb. 2018*

- Created an imputation procedure for data missing not at random by post-processing datasets imputed assuming missing at random.

PUBLICATIONS

- **Wu Y**, Chappell R. Estimating Baseline Survival Function in the Proportional Hazards Model Under Monotone Hazards. *Submitted.*
- **Wu Y**, Yin Y, Ling Y. The performance of unanchored indirect treatment comparison methods under varying access to individual patient data: an evaluation using simulated and case-study data. *Submitted.*
- Wu A, **Wu Y**, Natarajan V, Singh P, Cheema W, Hossain R, Liu C, Mejia Y, Oo M, Valenzano B, Xu Y (2023). Complementary and alternative medicine (CAM) use in cancer patients of immigration background. *JCO Global Oncology, 9,* e2200303.
- Tremblay E, Millington K, **Wu Y**, Wypij D, Agus M, Wolfsdorf J (2022). Utility of Plasma Beta-Hydroxybutyrate to Define Resolution of Diabetic Ketoacidosis. *Pediatric Diabetes*.
- Alizadeh F, Morell E, Hummel K, **Wu Y**, Wypij D, Singleton PJ, Matthew D, Esteso P, Moynihan K, Blume ED (2022). The Surprise Question as a Trigger for Primary Palliative Care Interventions for Children with Advanced Heart Disease. *Pediatr Cardiol*.
- Lin DD, **Wu Y,** Toom S, Sheth N, Becker K, Burdette-Radoux S, D'Silva J, Huang Y, Lipshitz J, Meghal T, Mo L, Murthy P, Rubin P, Natarajan V, Donahue B, Xu Y (2021). Clinical Determinants Differentiating the Severity of SARS-CoV-2 Infection in Cancer Patients: Hospital Care or Home Recovery. *Front. Med, 8,* 604221.

POSTERS/ABSTRACTS

- Zhou Z, Wang K, **Wu Y**, Jiang S (2018). Patient characteristics, glycemic levels, and association with blood glucose testing behaviors – a retrospective analysis from Lilly Connected Care Program. *Diabetes Metab Res Rev, 34,* e3079.

SKILLS

- Computer skills: R, R-Shiny, SAS, SQL, Python, Java, MATLAB, LaTeX, East, Microsoft Office, macOS, Unix/Linux, Windows