Ting-Hsuan Chang

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*https://tinghsuan-chang.github.io*

## EDUCATION

2027 (EXP)  **Columbia University**
Ph.D. in Biostatistics

2021  **Johns Hopkins University**
Sc.M. in Biostatistics

2018  **National Taiwan University**
B.S. in Psychology

## PROFESSIONAL EXPERIENCE

2021–2022  Biostatistician, Johns Hopkins Bloomberg School of Public Health
Mentors: Elizabeth Stuart, John Jackson

## PUBLICATIONS

### UNDER REVIEW

1. **Chang T-H**, Guo Z, Malinsky D (2024). Post-selection inference for causal effects after causal discovery. In revision for *Biometrika*. arXiv:2405.06763

### PEER-REVIEWED

1. **Chang T-H**, Nguyen TQ, Jackson JW (2024). The importance of equity value judgements and estimator-estimand alignment in measuring disparity and identifying targets to reduce disparity. *American Journal of Epidemiology*, 193(3), 536-547.

2. Brantner CL, **Chang T-H**, Nguyen TQ, Hong H, Di Stefano L, Stuart EA (2023). Methods for integrating trials and non-experimental data to examine treatment effect heterogeneity. *Statistical Science*, 38(4), 640-654.

3. **Chang T-H**, Nguyen TQ, Lee Y, Jackson JW, Stuart EA (2022). Flexible propensity score estimation strategies for clustered data in observational studies. *Statistics in Medicine*, 41(25), 5016-5032.

4. **Chang T-H**, Stuart EA (2022). Propensity score methods for observational studies with clustered data: a review. *Statistics in Medicine*, 41(18), 3612-3626.

5. Lupton-Smith C, Badillo-Goicochea E, **Chang T-H**, Maniates H, Riehm KE, Schmid I, Stuart EA (2022). Factors associated with county-level mental health during the COVID-19 pandemic. *Journal of Community Psychology*, 50(5), 2431-2442.

6. Riehm KE, Badillo-Goicochea E, Wang FM, Kim E, Aldridge LR, Lupton-Smith CP, Presskreischer R, **Chang T-H**, LaRocca S, Kreuter F, Stuart EA (2022). Association of non-pharmaceutical interventions to reduce the spread of SARS-CoV-2 with anxiety and depressive symptoms: a multi-national study of 43 countries. *International Journal of Public Health*, 67, 1604430.

7. Badillo-Goicochea E, **Chang T-H**, Kim E, et al. (2021). Global trends and predictors of face mask usage during the COVID-19 pandemic. *BMC Public Health*, 21, 1-12.

CHAPTERS

1. **Chang T-H**, Stuart EA (2023). Overview of methods for adjustment and applications in the social and behavioral sciences: the role of study design. In *Handbook of Weighting and Matching Adjustments for Causal Inference*. Edited by Rosenbaum PR, Zubizarreta J, Small D, Stuart EA. Chapman and Hall/CRC. Chapter 1; pp. 3-20.

## PRESENTATIONS

2024      "Post-selection inference for causal effects after causal discovery" (poster)
American Causal Inference Conference. Seattle, WA.

2022      "The importance of equity value judgements and estimator-estimand alignment in measuring disparity and identifying targets to reduce disparity" (oral presentation)
American Causal Inference Conference. Berkeley, CA.

## EDITORIAL ACTIVITIES

Reviewer      *Epidemiologic Methods*, *Epidemiology*, *Health Services and Outcome Research Methodology*, *International Journal of Educational Research*, *Multivariate Behavioral Research*

## PROFESSIONAL ACTIVITIES

Member      American Statistical Association (2024-present)

Organizer      Columbia Biostatistics Practicum/APEX Symposium (2024)

## HONORS AND AWARDS

2021        Delta Omega Honorary Society

## TEACHING

### TEACHING ASSISTANT

2022-present  Department of Biostatistics, Columbia Mailman School of Public Health

· Graphical Models for Complex Health Data (Fall 2023, 2024)
· Biostatistical Methods II (Spring 2023, 2024, 2025)
· Biostatistical Methods I (Fall 2022)

2020-2021    Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health

· Causal Inference in Medicine and Public Health I (Spring 2021)
· Public Health Biostatistics (Fall 2020)