

Zhengyang Zhou, Ph.D.

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Department of Biostatistics and Epidemiology
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Education

- Ph.D. in Biostatistics, August 2018
Department of Statistical Science, Southern Methodist University, Dallas, TX
Center for Human Genetics, University of Texas Southwestern Medical Center (UTSW), Dallas, TX
Advisor: Dr. Chao Xing
- M.S. in Statistics, May 2017
Department of Statistical Science, Southern Methodist University, Dallas, TX
- B.S. in Mathematics, July 2014
School of Mathematics and Statistics, Beijing Institute of Technology, Beijing, China

Professional Experience

- Assistant Professor, August 2018 – present
Department of Biostatistics and Epidemiology, School of Public Health
University of North Texas Health Science Center (UNTHSC), Fort Worth, TX
- Graduate Research Assistant, May 2015 – July 2018
Bioinformatics Lab, UTSW, Dallas, TX
- Graduate Teaching Assistant, August 2016 – December 2016
Department of Clinical Science, UTSW, Dallas, TX
- Graduate Teaching Assistant, January 2015 – June 2015
Department of Statistical Science, Southern Methodist University, Dallas, TX

Honors and Awards

- Junior Investigator Award, Research Society on Alcoholism, 2021
- Graduate Student Travel Grant, Southern Methodist University, 2018

- Schueren Award, Department of Statistical Science, Southern Methodist University, 2015
- Second Place, SAS Analytics Shootout Competition, 2015
- Meritorious Winner Award, Mathematical Contest in Modeling, 2012
- First Prize, Contemporary Undergraduate Mathematical Contest in Modeling, Beijing, 2012
- First Prize, Contemporary Undergraduate Mathematical Contest in Modeling, Beijing, 2011

Professional Affiliations

- Research Society on Alcoholism, 2022 – present
- American Society of Human Genetics, 2019 – present
- Society for Prevention Research, 2019 – present
- International Biometric Society, Eastern North American Region, 2017 – present
- American Statistical Association, 2015 – present

Academic Services

University of North Texas Health Science Center, Fort Worth, Texas

- Faculty Senator, 2022 – present
- Department Chair Search Committee, Department of Biostatistics and Epidemiology, 2021
- Faculty Search Committee, School of Public Health, 2020
- Master Admission Committee, School of Public Health, 2020 – present
- PhD/MS Admission Committee, School of Public Health, 2019 – present
- Scholarship and Awards Committee, School of Public Health, 2018 – 2020
- Faculty Search Committee, Department of Biostatistics and Epidemiology, 2019

Editorial/Reviewer Services

Reviewer editor

- Frontiers in Genetics (for Statistical Genetics and Methodology)

Ad hoc reviewer

- Alcohol and Alcoholism
- Electronic Journal of Statistics
- Frontiers in Microbiology
- Frontiers in Psychiatry
- JoVE-Journal of Visualized Experiments
- Molecular Neurodegeneration
- Research Synthesis Methods
- Science China Mathematics
- Scientific Reports
- SORT-Statistics and Operations Research Transactions
- Statistical Science
- WIREs Computational Statistics
- Youth & Society

Other Services

- Session Chair, Eastern North American Region International Biometric Society, 2021

- Planning Committee, Texas Center for Health Disparities Annual Conference, 2019-2020

Grant Activities

Active funding

- National Eye Institute (R01 EY026662), D. Inman (PI), 2022 – 2026
Title: Metabolic Vulnerability as a Disease Target for Glaucoma
Role: Co-Investigator
- Texas Alzheimer’s Research & Care Consortium, N. Phillips (PI), 2022 – 2023
Title: Longitudinal Mitochondrial DNA and microRNA Profiling of Neuron-enriched Exosomes Associated with Cognitive Decline in Mexican Americans
Role: Co-Investigator
- National Institute on Aging (R01 AG070862), R. Barber (PI), 2021 – 2026
Title: Epigenetic Risk Factors for AD Age at Onset and Health Disparities: HABLE Epigenetics Study
Role: Co-Investigator
- National Institute on Alcohol Abuse and Alcoholism (R01 AA028246), A. Ray (PI), 2021 – 2026
Title: Cross-tailoring Integrative Alcohol and Risky Sex Feedback for College Students: A Hybrid Type 1 Effectiveness-Implementation Trial
Role: Co-Investigator
- National Institute on Alcohol Abuse and Alcoholism (R34 AA026004), D. Litt (PI), 2020 – 2022
Title: Refining and piloting a text messaging intervention to delay alcohol initiation and reduce alcohol use escalation among abstainer and lighter drinker college students
Role: Co-Investigator
- National Institute on Minority Health and Health Disparities (1U54 MD013376-01A1), H. Yu (PI), D. Dluzen (Project Lead), 2020 – 2024
Title: The Relationship between Socioeconomic Status and Poverty and mRNA Expression in Immune Cells
Role: Subaward PI
- National Institute on Alcohol Abuse and Alcoholism (R01 AA025611), M. Lewis (PI), 2019 – 2023
Title: A Longitudinal, Measurement Burst Study to Examine the Ecological Validity of the Prototype Willingness Model of Hazardous Adolescent and Young Adult Alcohol Use
Role: Co-Investigator
- National Institute on Alcohol Abuse and Alcoholism (2R01 AA019511-05A1), E.Y. Mun (PI), 2018 – 2023
Title: Estimating Comparative Effectiveness of Alcohol Interventions for Young Adults
Role: Co-Investigator

Completed funding

- Texas Alzheimer’s Research & Care Consortium, R. Barber (PI), 2018 – 2021
Title: Epigenetic Risk Factors for Early Age at Onset of Alzheimer’s & MCI among non-Caribbean Hispanics
Role: Co-Investigator
- National Institute on Minority Health and Health Disparities (3U54 MD006882-08S2), J. Vishwanatha (PI), N. Phillips (Project Lead), 2019 – 2021
Title: Focus on Mexican Americans: Mitochondrial Underpinnings of Sex- and Ethnicity-based risk for Alzheimer’s Disease
Role: Co-Investigator
- Women’s Center of Tarrant County, E. Thompson (PI), 2020
Title: Play It Safe Evaluation
Role: Biostatistician
- National Institute on Alcohol Abuse and Alcoholism (R01 AA021379), M. Lewis (PI), 2019
Title: Informing Alcohol-Related Risk Intervention with the Prototype Willingness Model
Role: Co-Investigator

Publications

1. Mun, E.-Y., **Zhou, Z.**, Huh, D., Tan, L., Li, D., Tanner-Smith, E. E., Walters, S. T., & Larimer, M. E. (2022). Brief alcohol interventions are effective through six months: Findings from marginalized zero-inflated Poisson and negative binomial models in a two-step IPD meta-analysis. *Prevention Science*, Accepted.
2. Loparco, C. R., Lowery, A., **Zhou, Z.**, Leon, M., Galvin, A., Lewis, M. A. and Litt, D. M. (2022). Age as a Moderator of the Association Between Anticipated Regret and the Posting and Deleting of Alcohol-Related Content on Social Networking Sites Among Adolescents and Young Adults. *Health Behavior Research*, 5(2), 3.
3. LoParco, C., **Zhou, Z.**, Litt, D. M. and Lewis, M. A. (2022). Do Impulsivity and Biological Sex Moderate Associations Between Alcohol-related Sexual Willingness and Behavior Among Young Adults? *Health Behavior Research*, 5(2), 7.
4. Pritschmann, R. K., Gebru, N. M., Litt, D. M., **Zhou, Z.**, & Lewis, M. A. (2022). Are Drinking Cognitions Associated with Marijuana and Concurrent Alcohol and Marijuana Use among Adolescents and Young Adults? *Cannabis*, 5(1), 59-74.
5. Reid, D.M., Barber, R.C., Thorpe, R.J., Sun, J., **Zhou, Z.**, Phillips, N. (2022). Mitochondrial DNA oxidative mutations are elevated in Mexican American women potentially implicating Alzheimer’s disease. *npj Aging*, 8(1), 1-12.
6. Cushen, S. C., Ricci, C. A., Bradshaw, J. L., Silzer, T., Blessing, A., Sun, J., **Zhou, Z.**, ... & Goulopoulou, S. (2022). Reduced maternal circulating cell-free mitochondrial DNA is associated with the development of preeclampsia. *Journal of the American Heart Association*, 11(2), e021726.
7. **Zhou, Z.**, Li, D., & Zhang, S. (2022). Sample size calculation for cluster randomized trials with zero-inflated count outcomes. *Statistics in Medicine*, 41(12), 2191-2204..

8. Mun, E. Y., Li, X., Lineberry, S., Tan, Z., Huh, D., Walters, S. T., **Zhou, Z.**, ... & Project INTEGRATE Team. (2022). Do brief alcohol interventions reduce driving after drinking among college students? A two-step meta-analysis of individual participant data. *Alcohol and Alcoholism*, 57(1), 125-135.
9. **Zhou, Z.**, Xie, M., Huh, D. and Mun, E.-Y. (2021). A Bias Correction Method in Meta-analysis of Randomized Clinical Trials with no Adjustments for Zero-inflated Outcomes. *Statistics in Medicine*, 40(26), 5894-5909.
10. Huh, D., Li, X., **Zhou, Z.**, Walters, S., Baldwin, S., Tan, Z., Larimer, M. and Mun, E.-Y. (2021). A Structural Equation Modeling Approach to Meta-analytic Mediation Analysis Using Individual Participant Data: Testing Protective Behavioral Strategies as a Mediator of Brief Motivational Intervention Effects on Alcohol-Related Problems. *Prevention Science*, 1-13.
11. LoParco, C. R., **Zhou, Z.**, Fairlie, A. M., Litt, D. M., Lee, C. M., and Lewis, M. A. (2021). Testing Daily-level Drinking and Negative Consequences as Predictors of Next-day Drinking Cognitions. *Addictive behaviors*, 122, 107042. Advance online publication. <https://doi.org/10.1016/j.addbeh.2021.107042>.
12. Thompson, E. L., **Zhou, Z.**, Garg, A., Rohr, D., Ajoku, B., and Spence, E. E. (2021). Evaluation of a School-Based Child Physical and Sexual Abuse Prevention Program. *Health education & behavior*, 1090198120988252. Advance online publication. <https://doi.org/10.1177/1090198120988252>.
13. Mun, E.-Y., Li, X., Lineberry S., Tan, Z., Huh, D., Walters, S., **Zhou, Z.** and Larimer, M. (2020). Do Brief Motivational Interventions Reduce Driving after Drinking Among College Students? A Two-step Meta-analysis of Individual Participant Data. *Alcohol and Alcoholism*, doi: 10.1093/alcalc/agaal46
14. Wu, G[#], Liu, L.[#], **Zhou, Z.**[#], Liu, J., Wang, B., Ruan, J., Yang, Q., Zhang, C., Wang, D., Kang, L., Wang, S., Hui, R., Zou, Y., Xing, C., Song, L. and Wang, J. (2020). East Asian-Specific Common Variant in TNNI3 Predisposes to Hypertrophic Cardiomyopathy. *Circulation*, 142(21), 2086-2089. ([#]: Co-first authorship)
15. Uche, U. I., Suzuki, S., Fulda, K. G. and **Zhou, Z.** (2020). Environment-Wide Association Study on Childhood Obesity in the US. *Environmental Research*, 191, 110109.
16. Garg, A., El-Shanti, H., Xing, C., **Zhou, Z.**, Abujbara, M., Rashed, K., Khateeb, M., Ajlouni, K. and Agarwal, A. (2020). A novel syndrome with short stature, mandibular hypoplasia and osteoporosis may be associated with a PRRT3 variant. *Journal of the Endocrine Society*, 4(8), bvaa088.
17. Kim, S., Huh, D., **Zhou, Z.** and Mun, E.-Y. (2020). A Comparison of Bayesian to Maximum Likelihood Estimation for Latent Growth Models in the Presence of a Binary Outcome. *International Journal of Behavioral Development*, 44(5), 447-457.
18. Pathak, G., **Zhou, Z.**, Silzer, T., Barber, R. and Phillips, N. (2020). Two-stage Bayesian GWAS of 9,576 individuals identifies SNP-regions that are targeted by miRNAs inversely expressed in Alzheimer's and cancer. *Alzheimer's & Dementia*, 16(1), 162-177.
19. Patni, N., Hatab, S., Xing, C., **Zhou, Z.**, Quittner, C., and Garg, A. (2019). A novel autosomal recessive lipodystrophy syndrome due to homozygous LMNA variant. *Journal of Medical Genetics*, 57(6), 422-426.

20. Pathak, G., Silzer, T., Sun, J., **Zhou, Z.**, Daniel, A., Johnson, L., O'Bryant, S., Phillips, N. and Barber, R. (2019). Genome-wide methylation of mild cognitive impairment in Mexican Americans highlights genes involved in synaptic transport, Alzheimer's disease-precursor phenotypes, and metabolic morbidities. *Journal of Alzheimer's Disease*, 72(3), 733-749.
21. Chen, Z., Cai, J., Chen, Y., Wei, J., Li, H., Lu, Y., **Zhou, Z.** and Chen, X. (2019). A meta-analysis of the association between the presence of Helicobacter pylori and periodontal diseases. *Medicine*, 98(22).
22. Ma, Y., Li, W., Shotorbani, P., Huang, L., Chaudhari, S., Wu, P., Wang, L., Dubansky, B., Ryou, M., **Zhou, Z.** and Ma, R. (2019), Comparison of diabetic nephropathy between male and female eNOS^{-/-} db/db mice. *American Journal of Physiology-Renal Physiology*, 316(5), F889-F897.
23. Huh, D., Mun, E.-Y., Walters, S., **Zhou, Z.** and Atkins, D. (2019). A Tutorial on Individual Participant Data Meta-Analysis using Bayesian Multilevel Modeling to Estimate Alcohol Intervention Effects across Heterogeneous Studies. *Additive Behaviors*, 94, 162-170.
24. Zhang, D., **Zhou, Z.**, Abu-Hijleh, M., Batra, K., Xing, C. and Garcia, C. K. (2019). Homozygous Rare *PARN* Missense Mutation in Familial Pulmonary Fibrosis. *American Journal of Respiratory and Critical Care Medicine*, 199(6), 797-799.
25. **Zhou, Z.**, Ku, H. C., Xing, G. and Xing, C. (2018). Decomposing Pearson's χ^2 Test: A Linear Regression and its Departure from Linearity. *Annals of Human Genetics*, 82(5), 318-324.
26. Hu, J., Rong, Z., Gong, X., **Zhou, Z.**, Sharma, V., Xing, C., Watts, J., Corey, D. and Mootha, V. V. (2018). Oligonucleotides Targeting *TCF4* Triplet Repeat Expansion Inhibit RNA Foci and Mis-splicing in Fuchs' Dystrophy. *Human Molecular Genetics*, 27(6), 1015-1026.
27. Saade, J. S., Xing, C., Gong, X., **Zhou, Z.** and Mootha, V. V. (2018), Instability of *TCF4* Triplet Repeat Expansion in Fuchs' Endothelial Corneal Dystrophy with Parent-Child Transmission. *Investigative Ophthalmology & Visual Science*, 59(10), 4065-4070.
28. **Zhou, Z.**, Ku, H. C., Huang, Z., Xing, G. and Xing, C. (2017). Differentiating the Cochran-Armitage Trend Test and Pearson's χ^2 Test: Location and Dispersion. *Annals of Human Genetics*, 81(5), 184-189.
29. Mootha, V. V., Hansen, B., Rong, Z., Mammen, P. P., **Zhou, Z.**, Xing, C. and Gong, X. (2017). Fuchs' Endothelial Corneal Dystrophy and RNA Foci in Patients with Myotonic Dystrophy. *Investigative Ophthalmology & Visual Science*, 58(11), 4579-4585.

Submitted for Publication

- **Zhou, Z.**, Ku, H., Manning, S., Xing, C. A varying coefficient model to jointly test genetic and gene-environment interaction effects. Submitted.
- Lewis, M., **Zhou, Z.**, Fairlie, A., Litt, D., Kannard, E., Walker, T., Resendiz, R., ..., & Lee, C. Occasion-level Investigation of Playing Drinking Games: Associations with Cognitions, Situational factors, Alcohol Use, and Negative Consequences among Adolescents and Young Adults. Submitted.

- Manning, S. E., Dluzen, D. F., Ku, H., Xing, C., and **Zhou, Z.** A nonparametric alternative to the Cochran-Armitage trend test in genetic case-control association studies: the Jonckheere-Terpstra trend test. Submitted.
(Student paper)
- Lewis, M. A., **Zhou, Z.**, Parks, K., Evans-Polce, R., Litt, D. M., Fairlie, A. M., LoParco, C. and McCabe, S. E. The role of polysubstance use in experiencing alcohol-related negative sexual consequences. Submitted.
- Lewis, M. A., **Zhou, Z.**, Litt, D. M., and Lowery, A. Age and fear of missing out as moderators of the association between peak drinks and alcohol-induced blackouts among adolescents and young adults. Submitted.

Invited Presentations

- **Zhou, Z.**, Li, D., and Zhang, S. (2021, July). *Sample Size Calculation for Cluster Randomized Trials with Zero-inflated Count Outcomes*. Centre for Medical Image Computing, University College London, England, Virtual session.
- Lewis, M. A., Litt, D. M., and **Zhou, Z.** (2020, October). Adolescent and young adult mental health, substance use, and sexual behavior: Project PATH. Invited speakers, Mental Health Connection of Tarrant County, Fort Worth, TX.

Presentations

- Mun, E.-Y., **Zhou, Z.**, Huh, D., Tan, L., Li, D., Tanner-Smith, E. E., Walters, S. T., & Larimer, M. E. (2022, June). *Brief alcohol interventions are effective through six months: Findings from marginalized zero-inflated Poisson and negative binomial models in a two-step IPD meta-analysis*. Presented at the 45th annual scientific meeting of the Research Society on Alcoholism. Orlando, FL.
- Huh, D., Baldwin, S., **Zhou, Z.**, Park, J., & Mun, E.-Y. (2022, June). *A comparison of four meta-analysis approaches using individual participant data to evaluate intervention effects on alcohol use outcomes*. Presented at the 45th annual scientific meeting of the Research Society on Alcoholism. Orlando, FL.
- Tan, L., Lunningham, J. M., **Zhou, Z.**, Huh, D., Tanner-Smith, E. E., Walters, S. T., & Larimer, M. E. (2022, June). *Statistical models used to assess effectiveness of brief alcohol interventions: A review*. Presented at the 45th annual scientific meeting of the Research Society on Alcoholism. Orlando, FL.
- Lewis, M., **Zhou, Z.**, Fairlie, A., Litt, D., Kannard, E., Walker, T., Resendiz, R., ..., & Lee, C. (2022, June). *Playing drinking games as a daily-level predictor of alcohol use and negative consequences among adolescents and young adults*. Presented at the 45th annual scientific meeting of the Research Society on Alcoholism. Orlando, FL.
- Huh, D., Baldwin, S. A., Park, J., **Zhou, Z.**, & Mun, E.-Y. (2022, May). *Comparing the performance of meta-analysis approaches using individual participant data to evaluate intervention effects on alcohol use outcomes*. Presented at the 30th Annual Meeting of the Society for Prevention Research. Seattle, WA.

- **Zhou, Z.**, Xie, M., Huh, D., & Mun, E.-Y. (2022, May). *Statistical model performance of outcomes with excessive zeros and overdispersion in prevention research: a simulation study*. Presented at the 30th Annual Meeting of the Society for Prevention Research. Seattle, WA.
- **Zhou, Z.**, Xie, M., Huh, D., and Mun E.-Y. (2021, June). *A bias correction method in meta-analysis for zero-inflated outcomes: Application to evaluating comparative effectiveness of brief alcohol interventions*. Presented at the 44th annual scientific meeting of the Research Society on Alcoholism, Virtual Session.
- Huh, D., Li, X., **Zhou, Z.**, Walters, S. T., Baldwin, S. A., Tan, Z., Larimer, M. E., and Mun, E.-Y. (2021, June). *Testing protective behavioral strategies as a mediator of brief alcohol intervention effects: A one-stage structural equation modeling approach to meta-analytic mediation analysis*. Presented at the 44th annual scientific meeting of the Research Society on Alcoholism, Virtual Session.
- Mun, E.-Y., Li, X., Lineberry, S., Tan, X., Huh, D., Walters, S. T., **Zhou, Z.**, & Larimer, M. E. (2021, June). *Do brief alcohol interventions reduce driving after drinking among college students? A two-step meta-analysis of individual participant data*. Presented at the 44th annual scientific meeting of the Research Society on Alcoholism, Virtual Session.
- Lewis, M. A., **Zhou, Z.**, Parks, K. A., Evans-Polce, R., Litt, D. M., Fairlie, A., M., LoParco, C., R., & McCabe, S. E. (2021, June). *Examining the role of polysubstance use in experience negative alcohol-related sexual consequences among underage young adults*. Presented at the 44th annual scientific meeting of the Research Society on Alcoholism, Virtual Session.
- LoParco, C., **Zhou, Z.**, Litt, D. M., & Lewis, M. A. (2021, June). *Biological sex as a moderator for the associations between positive/negative affect and simultaneous and concurrent alcohol and marijuana a use*. Presented at the 44th annual scientific meeting of the Research Society on Alcoholism, Virtual Session.
- Lowery, A. D., **Zhou, Z.**, Astorga, A., Litt, D. M., & Lewis, M. A. (2021, June). *Examining Fear of Missing Out (FOMO) as a moderator of the association between peak drinks and alcohol-induced blacking out*. Presented at the 44th annual scientific meeting of the Research Society on Alcoholism, Virtual Session.
- Manning, S. E., Xing, C., Ku, H. and **Zhou, Z.** (2021, March). *A non-parametric alternative to the Cochran-Armitage trend test in genetic case-control association studies: The two-sided Jonckheere's test*. The annual Research Appreciation Day (RAD), University of North Texas Health Science Center, Fort Worth, TX. (Student paper; Won Third Place Award in the School of Public Health section)
- **Zhou, Z.**, Li, D. and Zhang, S. (2021, March). *Sample Size Calculation for Cluster Randomized Trials with Zero-inflated Count Outcomes*. Presented at Eastern North American Region International Biometric Society, Virtual Session.
- Manning, S. E., Xing, C., Ku, H. and **Zhou, Z.** (2020, March). *A non-parametric alternative to the Cochran-Armitage trend test in genetic case-control association studies: The two-sided Jonckheere's test*. The annual Research Appreciation Day (RAD), University of North Texas Health Science Center, Fort Worth, TX. (Student paper; Conference canceled due to COVID-19)

- **Zhou, Z.**, Xie, M., Trikalinos, T. and Mun, E.-Y. (2019, July). *Bias correction and sensitivity analysis for meta-analysis of studies with zero-inflated outcomes*. Presented at Joint Statistical Meeting, Denver, CO.
- **Zhou, Z.**, Ku, H. C. and Xing, C. (2019, July). *The Additive Model in Genetic Association Studies*. Presented at Joint Statistical Meeting, Denver, CO.
- Mun, E.-Y. and **Zhou, Z.** (2019, May). *Methods toolbox for meta-analysis of individual participant data: Examples from Project INTEGRATE*. Presented at the 27th Annual Meeting of the Society for Prevention Research, San Francisco, CA.
- Mun, E.-Y., Li, X., **Zhou, Z.** and Walters, S. T. (2019, March). *Project INTEGRATE: A Comprehensive and systematic meta-analysis study of brief alcohol interventions for young adults*. Presented at the UNTHSC Research Appreciation Day (Faculty), Fort Worth, TX.
- Tan, Z., Li, X., **Zhou, Z.**, Suzuki, S., Walters, S. T. and Mun, E.-Y. (2018, November). Longitudinal links between social support, substance use problems, and depression among adults in supportive housing programs. Presented at the Annual Meeting of the American Public Health Association, San Diego, CA.
- **Zhou, Z.**, Ku, H. C. and Xing, C. (2018, July). *Testing Nonlinear Gene-Environment Interaction Through Varying Coefficient and Linear Mixed Models*. Presented at Joint Statistical Meeting, Vancouver, Canada.
- **Zhou, Z.**, Ku, H. C. and Xing, C. (2018, March). *Testing Nonlinear Gene-Environment Interaction Through Varying Coefficient and Linear Mixed Models*. Presented at Eastern North American Region International Biometric Society, Atlanta, GA.
- **Zhou, Z.**, Ku, H. C. and Xing, C. (2017, October). *Testing Nonlinear Gene-Environment Interaction Through Varying Coefficient and Linear Mixed Models*. Quantitative Biomedical Research Center, University of Texas Southwestern Medical Center, Dallas, TX.
- **Zhou, Z.**, Ku, H. C. and Xing, C. (2017, August). *A Procedure to Control for Population Structure in Genome-Wide Association Studies with Rare Variants*. Presented at Joint Statistical Meetings, Baltimore, MD.
- **Zhou, Z.**, Ku, H. C. and Xing, C. (2017, July). *A Procedure to Control for Population Structure in Genome-Wide Association Studies with Rare Variants*, Biostatistics Work in Progress, University of Texas Southwestern Medical Center, Dallas, TX.
- **Zhou, Z.** (2016, March). *An Introduction to Genome-Wide Association Study*, Department of Statistical Science, Southern Methodist University, Dallas, TX.

Software Package

- **Zhou, Z.**, Li, D., Huh, D., and Mun, E.-Y. (2022). mcount: Marginalized Count Regression Models. R package version 1.0.0. <https://cran.r-project.org/web/packages/mcount/index.html>

- **Zhou, Z.**, Manning, S., Xing, C., and Ku, H. (2021). GEVACO: Joint Test of Gene and GxE Interactions via Varying Coefficients. R package version 1.0.1. <https://CRAN.R-project.org/package=GEVACO>

Teaching Experience

- Lecturer, BIOS 5316: Categorical Data Analysis, UNTHSC, 2020, 2021, 2022
- Lecturer, BIOS 6391: Statistical Genetics, UNTHSC, 2020
- Lecturer, BIOS 6326: Methods of Clinical Trials, UNTHSC, 2019
- Lecturer, EPID 6391: Advanced SAS and R, UNTHSC, 2019, 2020, 2021

Mentoring Experience

- Primary Advisor, MS Student: Emma Nolan, UNTHSC, 2021 – present
- Primary Advisor, MS Student: Sydney Manning, UNTHSC, 2019 – 2021
- Dissertation Committee Member, PhD Student: Gita Pathak, UNTHSC, 2018 – 2019
- Dissertation Committee Member, PhD Student: Uloma Igara Uche, UNTHSC, 2019 – 2020
- Dissertation Committee Member, PhD Student: Bing Song, UNTHSC, 2019 – 2020
- Dissertation Committee Member, PhD Student: Micaela Colmenarez, UNTHSC, 2020 – present
- Dissertation Committee Member, PhD Student: Zhengqi Tan, UNTHSC, 2021 – present
- Dissertation Committee Member, PhD Student: Mohammad Housini, UNTHSC, 2021 – present
- Dissertation Committee Member, PhD Student: Cassidy LoParco, UNTHSC, 2021 – present