

Curriculum Vitae

Zhengqi Tan

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Personal Information

Academic Degrees

- University of North Texas Health Science Center, Fort Worth, TX
Doctoral Candidate in Public Health Sciences with a concentration in Epidemiology
Expected graduation: 2022
Advisor: Eun-Young Mun, Ph.D.
- Master of Public Health, Epidemiology.
University at Buffalo, State University of New York, Buffalo, NY, 2016.
Thesis: *Parenting practices and overweight status of junior high school students in China: A nationally representative study of 19,487 students from 112 schools.*
- Bachelor of Medicine, Bachelor of Surgery, Preventive Medicine.
Fudan University, Shanghai, China, 2010.
Thesis: *Assessment of chromosomal damage among vinyl chloride-exposed workers in Shanghai.*

Academic Positions

- Graduate Research Assistant, Department of Biostatistics and Epidemiology, School of Public Health, University of North Texas Health Science Center, 2017–Present.
- Graduate Teaching Assistant, Department of Biostatistics and Epidemiology, School of Public Health, University of North Texas Health Science Center, 2020–Present.
- Graduate Research Assistant, Department of Epidemiology and Environmental Health, School of Public Health and Health Professions, University at Buffalo, State University of New York, 2015–2016.
- Research Assistant, School of Public Health, Fudan University, 2009–2010.

Professional Positions

- Epidemiologist, Madera County Public Health Department, Madera, CA, 2016–2017.
- Public Health Physician, Shanghai Municipal Center for Disease Control and Prevention (SCDC), Shanghai, China, 2010–2013.

Awards and Honors

- Student Merit Award for the 2021 Research Society on Alcoholism Scientific Meeting, National Institute on Alcohol Abuse and Alcoholism, 2021.

- Dean’s Scholarship, University of North Texas Health Science Center, 2017–2021.
- Provost Fellowship, University of North Texas Health Science Center, 2017–2018.
- Dean’s Travel Scholarship Awards, University of North Texas Health Science Center, 2018, 2019.
- Graduate Student Travel Awards, Public Health Student Government Association, University of North Texas Health Science Center, 2018, 2019.
- Graduate Student Travel Awards, University at Buffalo, State University of New York, 2015, 2016.
- Outstanding Staff, Shanghai Municipal Center for Disease Control and Prevention, 2011–2012.

Professional Affiliations

- The Research Society on Alcoholism (RSA), 2019–Present.
- Society for Prevention Research (SPR), 2019–Present.
- American Society for Nutrition (ASN), 2016–Present.
- American Public Health Association (APHA), 2015–Present.

Professional Trainings and Certifications

- The Research Society of Alcoholism Education Committee Pre-conference Mentoring Program on *Research, Grantsmanship, and Collaboration for Early Career Development*, mentored by Katie Witkiewitz. May-June 2021.
- The Cofrin Logan Center for Addiction Research and Treatment Workshop on *Strategies and Practical Tips for Conducting Systematic Reviews and Meta-Analyses* by Michael Amlung and Victoria Votaw. Online Workshop, April 2021.
- The National Council on Measurement in Education Annual Meeting Training Session on *Cognitive Diagnosis Modeling: A General Framework Approach and Its Implementation in R* by Jimmy de la Torre and Wenchao Ma. Online Workshop, June 2020.
- Curran-Bauer Analytics Workshop on *Introduction to Structural Equation Modeling* by Dan Bauer and Patrick Curran. Online Webinar, May 2020.
- Society for Prevention Research Pre-conference Workshop on *Improving the Efficiency of Longitudinal Research Using Responsive and Adaptive Survey Design Techniques* by Brady West and James Wagner. San Francisco, CA, May 2019.
- California Department of Public Health Lean Six Sigma Workshop on *Six Sigma White Belt Certification in Healthcare*. Fresno, CA, April 2017.
- California Department of Public Health Training Workshop on *California Reportable Disease Information Exchange (CalREDIE), Vital Records Business Intelligence System (VRBIS), Electronic Death Registration System (EDRS), and Fetal Death Registration System (FDRS)*. Sacramento, CA, November 2016.
- Federal Emergency Management Agency (FEMA) Emergency Management Certification (ICS-100, ICS-200). August 2016.
- SAS Certified Advanced Programmer for SAS 9.

- SAS Certified Base Programmer for SAS 9.
- Public Health Physician, Shanghai, China, 2011.

Software Programs

- SAS, R, Mplus, SQL, L^AT_EX, SPSS, STATA, Ox.

Researcher Profiles

- ORCID 0000-0002-2297-2770
- Google Scholar <https://tinyurl.com/zhengqi-tan>

Research Information

Grants

1. Estimating Comparative Effectiveness of Alcohol Interventions for Young Adults, 2017–2022.
 - National Institute on Alcohol Abuse and Alcoholism (2R01 AA019511-05A1, \$2,457,754)
 - Role: Graduate Research Assistant (PI: Eun-Young Mun)
2. Development and Testing of a Just-In-Time Adaptive Smart Phone Intervention to Reduce Drinking among Homeless Adults, 2018–2021 (NCE).
 - National Institute on Alcohol Abuse and Alcoholism (R34 AA024584, \$683,634)
 - Role: Graduate Research Assistant (PI: Scott Walters and Michael Businelle)
3. Multilevel Systems-Oriented Childhood Obesity Study in China, 2011–2016.
 - Eunice Kennedy Shriver National Institute of Child Health and Human Development (1U54HD070725-01, \$3,228,309)
 - Role: Graduate Research Assistant (PI: Youfa Wang)

Peer-reviewed Publications

1. Tan, Z., de la Torre, J., Huh, D., Larimer, M. E., & Mun, E.-Y. (2021). A tutorial on cognitive diagnosis modeling for characterizing mental health symptom profiles using existing item responses. *Prevention Science*. (under review)
2. Huh, D., Li, X., Zhou, Z., Walters, S. T., Baldwin, S. A., Tan, Z., Larimer, M. E., & 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*. (accepted)
3. Mun, E.-Y., Li, X., Businelle, M., Hébert, E., Tan, Z., Barnett, N., Walters, S. T. (2021). Ecological momentary assessment of alcohol consumption and its concordance with transdermal and alcohol detection and timeline follow-back self-report among adults experiencing homelessness. *Alcoholism: Clinical and Experimental Research*. Advance online publication. <https://doi.org/10.1111/acer.14571>

4. Mun, E.-Y., Li, X., Lineberry, S., Tan, Z., Huh, D., Walters, S. T., Zhou, Z., & Larimer, M. E. (2021). Do brief motivational interventions reduce driving after drinking among college students? A two-step meta-analysis of individual participant data. *Alcohol and Alcoholism*, agaa146. Advance online publication. <http://doi.org/10.1093/aclacl/agaa146>.
5. Tan, Z., Mun, E.-Y., Nguyen, Uyen-Sa, D. T., & Walters, S. T. (2021). Increases in social support co-occur with decreases in depressive symptoms and substance use problems among adults in permanent supportive housing: An 18-month longitudinal study. *BMC Psychology*, 9(1), 6. <https://doi.org/10.1186/s40359-020-00507-0>.
6. Brower, B., Butterworth, M., Crawford, M., Jennings, M., Tan, Z., Moore, J., ... Carpenter, B. (2020). The podiatric medical profession: A gender comparison. *The Journal of Foot and Ankle Surgery*, 59(5), 997–1007. <https://doi.org/10.1053/j.jfas.2020.05.002>.
7. Peeri, N., Shrestha, N., Rahman, M., Zaki, R., Tan, Z., Bibi, S., ... Haque, U. (2020). The SARS, MERS and novel coronavirus (COVID-19) epidemics, the newest and biggest global health threats: What lessons have we learned? *International Journal of Epidemiology*, 49(3), 717–726. <https://doi.org/10.1093/ije/dyaa033>.
8. Tan, Z., Min, J., Xue, H., Wang, W., & Wang, Y. (2018). Parenting practices and overweight status of junior high school students in China: A nationally representative study of 19,487 students from 112 schools. *Preventive Medicine*, 107, 1–7. <https://doi.org/10.1016/j.ypmed.2017.09.014>.
9. Wang, Z., Xu, F., Ye, Q., Tse, L. A., Xue, H., Tan, Z., ... Wang, Y. (2018). Childhood obesity prevention through a community-based cluster randomized controlled physical activity intervention among schools in china: The health legacy project of the 2nd world summer Youth Olympic Games (YOG-Obesity study). *International Journal of Obesity*, 42(4), 625–633. <https://doi.org/10.1038/ijo.2017.243>.
10. Min, J., Tan, Z., Abadie, L., Townsend, S., Xue, H., & Wang, Y. (2018). An evaluation of the effectiveness of the National Aeronautics and Space Administration (NASA) Mission-X child health promotion program in the United States. *American Journal of Health Promotion*, 32(6), 1333–1339. <https://doi.org/10.1177/0890117117723959>.
11. Zhu, J., Tan, Z., Hollis-Hansen, K., Zhang, Y., Yu, C., & Li, Y. (2017). Epidemiological trends in colorectal cancer in China: An ecological study. *Digestive Diseases and Sciences*, 62(1), 235–243. <https://doi.org/10.1007/s10620-016-4362-4>.
12. Xu, F., Wang, Z., Ye, Q., Tse, L. A., Xue, H., Tan, Z., & Wang, Y. (2016). Policy-oriented, school-based physical activity intervention to prevent childhood obesity in China (the health legacy project of the second summer Youth Olympic Games): A cluster randomised trial. *The Lancet Diabetes & Endocrinology*, 4, S9. [https://doi.org/10.1016/S2213-8587\(16\)30364-3](https://doi.org/10.1016/S2213-8587(16)30364-3).

Published Abstracts and Conference Proceedings

1. Tan, Z., Mun, E.-Y., Nguyen, U. D. T., & Walters, S. T. (2021). *A longitudinal study of permanent supportive housing residents: Increase in social support co-occurring with decrease in depressive symptoms and substance use problems* [Abstract]. *Alcoholism: Clinical and Experimental Research*, 45.
2. Huh, D., Li, X., Zhou, Z., Walters, S. T., Baldwin, S. A., Tan, Z., Larimer, M. E., & Mun, E.-Y. (2021). *Testing protective behavioral strategies as a mediator of brief alcohol intervention effects: A one-stage SEM approach to meta-analytic mediation analysis* [Abstract]. *Alcoholism: Clinical and Experimental Research*, 45.

3. Tan, Z., de la Torre, J., & Mun, E.-Y. (2020). *An application of Markov chain Monte Carlo (MCMC) methods in alcohol research: Item parameter recovery for the Protective Behavioral Strategy Survey* [Abstract]. *Alcoholism: Clinical and Experimental Research*, 44.
4. Li, X., Walters, S. T., Mun, E.-Y., Businelle, M. S., Lineberry, S., & Tan, Z. (2020). *Detecting alcohol consumption among homeless individuals using ecological momentary assessment, transdermal sensors, and timeline follow back methods* [Abstract]. *Alcoholism: Clinical and Experimental Research*, 44.
5. Tan, Z., Zhu, X., Chen, S., Fulda, K., Tao, M.-H. (2018). *Intakes of calcium and magnesium and weight status among young Hispanic women in the United States* [Abstract]. *Community and Public Health Nutrition, Current Developments in Nutrition*, 2(11), P84. doi:10.1093/cdn/nzy033.
6. Tan, Z., Wen, M., Wang, W., Xue, H., Min, J., & Wang, Y. (2016). *Parenting behaviors and weight status of junior high school students in China* [Abstract]. *The Federation of American Societies for Experimental Biology Journal*, 30(1_supplement), 33.35. doi:10.1096/fasebj.30.1_supplement.33.5.

Presentations

1. Tan, Z., Mun, E.-Y., Nguyen, U. D. T., & Walters, S. T. (2021, June). *A longitudinal study of permanent supportive housing residents: Increase in social support co-occurring with decrease in depressive symptoms and substance use problems*. Poster presented at the 44th Annual Research Society on Alcoholism Scientific Meeting.
2. Huh, D., Li, X., Zhou, Z., Walters, S. T., Baldwin, S. A., Tan, Z., Larimer, M. E., & E-Y Mun. (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*. Poster presented at the 44th Annual Research Society on Alcoholism Scientific Meeting.
3. Tan, Z., de la Torre, J., & Mun, E.-Y. (2020, June). *An application of Markov Chain Monte Carlo (MCMC) methods in alcohol research: item parameter recovery for the Protective Behavioral Strategies Survey*. Poster presented at the 43rd Annual Research Society on Alcoholism Scientific Meeting, New Orleans, Louisiana.
4. Li, X., Walters, S., Mun, E.-Y., Businelle, M. S., Lineberry, S., & Tan, Z. (2020, June). *Detecting alcohol consumption among homeless individuals using ecological momentary assessment, transdermal sensors, and timeline follow back methods*. Poster presented at the 43rd Annual Research Society on Alcoholism Scientific Meeting, New Orleans, Louisiana.
5. Lineberry, S., Tan, Z., Li, X., Zhou, Z., Walters, S. T., & Mun, E.-Y. (2020, March). *Do brief motivational interventions reduce drinking and driving among college students? A meta-analysis of individual participant data*. Poster presented at the annual Research Appreciation Day (RAD), University of North Texas Health Science Center, Fort Worth, Texas.
6. Li, X., Walters, S. T., Mun, E.-Y., Businelle, M. S., Lineberry, S., & Tan, Z. (2020, March). *Detecting alcohol consumption among homeless individuals using ecological momentary assessment, transdermal sensors, and timeline follow back methods*. Poster presented at the annual Research Appreciation Day (RAD), University of North Texas Health Science Center, Fort Worth, Texas.
7. Tan, Z., de la Torre, J., & Mun, E.-Y. (2020, March). *An application of Markov chain Monte Carlo (MCMC) methods in alcohol research: Item parameter recovery for the Protective Behavioral Strategies Survey*. Poster presented at the annual Research Appreciation Day (RAD), University of North Texas Health Science Center, Fort Worth, Texas.
8. Tan, Z., Walters, S. T., & Mun, E.-Y. (2020, March). *Longitudinal associations of social support with depression and substance use problems among permanent supportive housing residents*. Poster

presented at the annual Research Appreciation Day (RAD), University of North Texas Health Science Center, Fort Worth, Texas.

9. Tan, Z., Mun, E.-Y., de la Torre, J. (2019, June). *A Markov chain Monte Carlo (MCMC) estimation and validation study of a two-parameter logistic item response model*. Presented in the School of Public Health, University of North Texas Health Science Center, Fort Worth, TX.
10. Tan, Z., Li, X., Zhou, Z., Suzuki, S., Walters, S. T., 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.
11. Jackson, B. E., Tan, Z., Teigen, K. J., Macdonald, B. R., Hinkle, K., Ojha, R. P. (2018, September). *Alternate explanations for the association between hepatitis C virus infection and preterm birth*. Poster presented at the annual meeting of the American College of Epidemiology, Cincinnati, OH.
12. Tan, Z., Walters, S. T., Suzuki, S. (2018, April). *Does alcohol use affect the relationship between social support and depression? An examination of permanent supportive housing (PSH) residents in Fort Worth, Texas*. Presented at the Research Appreciation Day, University of North Texas Health Science Center, Fort Worth, TX.
13. Tan, Z., Orimoloye, H., Chaturvedula, A., Aryal, S. (2018, April). *Association between infant breast-feeding and early childhood caries in the United States*. Presented at the Research Appreciation Day, University of North Texas Health Science Center, Fort Worth, TX.
14. Tan, Z., Xue, H., Wang, Y. (2016, April). *Parenting behaviors and weight status of junior high school students in China*. Presented at the annual conference of Experimental Biology, San Diego, CA.
15. Tan, Z., Min, J., Abadie, L., Townsend, S., Xue, H., Wang, Y. (2015, November). *Effectiveness evaluation of the National Aeronautics and Space Administration (NASA) Mission X child fitness promotion program in the United States*. Presented at the annual conference of Obesity Society, Los Angeles, CA.

Teaching Information

Teaching Assistant

- Survey Research and Questionnaire Design (EPID 5312), UNTHSC, 2021.
 - Assisted by developing syllabus and rubric, grading assignments, and holding online office hour.
- Principles of Biostatistics (BIOS 5300), UNTHSC, 2021.
 - Assisted by preparing and providing lectures, developing and grading assignments and exams, and holding online office hour and discussion board.
- Introduction to Data Management and Statistical Computing (EPID 5313), UNTHSC, 2020.
 - Assisted by preparing lecture and exam materials, providing supplemental lectures, grading exams and assignments, and holding office hour.

Provided Trainings in Public Health

- Madera County Community Health Assessment, Madera County Government Center, 2017.
 - Public Health Department Accreditation, Madera County Public Health Department, 2016–2017.
 - Child Death Epidemiology Investigation, Madera County Government Center, 2016–2017.
 - National Rural Environmental Health Survey, Field epidemiologic survey training, Shanghai Municipal Center for Disease Control and Prevention, 2011–2012.
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Service Information

Service at University of North Texas Health Science Center

- Ph.D. Student Representative, Public Health Student Government Association, School of Public Health, University of North Texas Health Science Center, 2018–2019, 2021–2022.
- New Student Orientation Leader, University of North Texas Health Science Center, 2021.
- Ph.D. Student Representative, School of Public Health Preview Day, 2018.
- Community Service at Community Food Bank, Tarrant County Food Bank, and First Street Methodist Mission, 2017–2019.

Service at Madera County Public Health Department

- Community Service at Millview Elementary School, Safe Routes to School, Community Food Bank, and Farmers' Market, 2016–2017.

Service at University at Buffalo, State University of New York

- University Student Ambassador, University at Buffalo, State University of New York, 2015–2016.

Service to the Profession

- Ad hoc Review for Peer-reviewed Journals
 - *Psychology of Addictive Behaviors*
 - *Texas Public Health Journal*
 - *Psychiatry Research*

Last updated on October 26, 2021