

CURRICULUM VITAE

MINGAN YANG

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RESEARCH INTERESTS

Bayesian nonparametrics; Survival analysis, Computational statistics, Variable selection, Latent variable modeling, Structural equation modeling

PUBLICATIONS

1. Yang, M. (2018). Assessment of Noninferiority and Equivalence for simple crossover trials using Bayesian approach, *Statistics in Biosciences*
<https://doi.org/10.1007/s12561-017-9209-9>
2. Yang, M (2018). Bayesian variable selection in linear mixed models with shrinkage prior. *Computational Statistics*, Conditionally accepted (minor revision).
3. Yang, M (2018). A Bayesian analysis of the incomplete block crossover design. *Biopharmaceutical Statistics*. Conditionally accepted (minor revision)
4. Yang, M. (2018) Teaching Biostatistics course with flipped classroom, *Proceedings of the 10th International conference on teaching statistics*, International association for statistical education, *In press*, C234.
5. Association of ambient fine particulate matter and Its constituents with complement C3 in a panel study of elderly people, (2018) submitted.
6. The role of complement C3 in PM2.5 exposure and type 2 diabetes mellitus: An elderly panel study in Beijing, China, (2018) submitted
7. Phosphorus alleviates nitrogen suppression of methane sink in global grasslands, (2018) submitted
8. Association between depression and poor sleep quality among Han and Manchu ethnicities in a large, rural, Chinese population, (2018) submitted
9. Xu, J. etc. (2018) Oxidative stress and DNA damage in a long-term hexavalent chromium-exposed population in north China: A cross-sectional study, accepted, *BMJ Open*
10. Tong, Y. et. Al. (2018) Association between multi-pollutant mixtures pollution and daily cardiovascular mortality: An exploration of exposure-response relationship, accepted, *Atmospheric environment*
11. "Association of social adversity with comorbid diabetes and depression symptoms in the Hispanic Community Health Study/Study of Latinos Sociocultural Ancillary Study: A syndemic approach, *Annals of Behavioral Medicine*, revision submitted (2018)
12. Thomas, I, Thompson, C. Yang, M etc. (2018). Thoracic aorta calcification and noncardiovascular disease-related mortality: the multi-ethnic study of atherosclerosis,

- Arteriosclerosis, Thrombosis, and Vascular Biology, (with the graduate student Issac Thoams). doi: 10.1161/ATVBAHA.118.310850
13. Comparison of ultrasound guidance vs. clinical assessment alone for management of pediatric skin and soft tissue infections, (2018), Journal of emergency medicine, (with the graduate student Samuel Lam etc)
<https://doi.org/10.1016/j.jemermed.2018.07.010>
 14. Miyairi, M., Yang, M., Gast, J., Madanat, H., Hawks, S., Leiker, J. Exploring the role of intuitive eating and the association of self-compassion, depressive symptoms, and weight bias attitudes among college students, in Japan, Jordan, and the United States. APHA, 2017
 15. Wang, M. and Yang, M (2016). Posterior property of Student-t linear regression model using objective priors, Statistics & Probability Letters , doi:10.1016/j.spl.2016.02.003 (in press)
 16. Zou, Y., Leung, R., Lin, S, Yang, M., Lu, T., Li, X., Gu, J. Hao, C., Dong, G. and Hao, Y. (2016). Attitudes towards suicide in urban and rural China: a population based, cross-sectional study, BMC Psychiatry. 16, 162. DOI: 10.1186/s12888-016-0872-z
 17. Dong, G., Wang, J., Zheng, X., Chen, L., Qin, X., Zhou, Y., Yang, M., and Hu, Q., (2015). Interactions between air pollution and obesity on blood pressure and hypertension in Chinese children. Epidemiology, 26, 740-747
 18. Dong, G., Zhou, Y., Qian, Z., Boutwell, B., Yang, M., Zeng, X., and Zhu, Y., (2016). Epidemiology of elevated blood pressure and associated risk factors in Chinese children: the SNEC study, Journal of human hypertension, 30, 231-236.
 19. Xi, J., Yuan, J., Yang, M., Zhou, Y., and Cheng, Y. (2016). Parametric study on mouth-throat geometrical factors on depositions of orally inhaled aerosols, Journal of Aerosol Science, 99, 94-106. IF2.278
 20. Yang, M., Chen, L., and Dong, G. (2015). Semiparametric Bayesian accelerated failure time model with interval censored data, Journal of Statistical Computation & Simulation, 85, 2049-2058.
 21. Wang, D., Qian, Z., Wang, J., Yang, M., Liu, F., and Dong, G. (2014). Gender-specific differences in effects of overweight and obesity on asthma and asthma related symptoms in 30,056 children, Journal of Asthma, 51, 508-514
 22. Ong, K., Lewis, R., MacDonald M., Yang, M., and Qian Z. (2014). Inactivation of dust mites, dust mite allergen, and mold from carpet, Journal of Occupational & Environmental Hygiene, 11, 519-527
 23. Ong, K., Dixit, A., Lewis, R., Emo, B., and Yang, M. (2014). Mold Management of wetted carpet, in press, Journal of Occupational & Environmental Hygiene, 11, 793-799.
 24. Yang, M. (2013). Bayesian nonparametric centered random effects models with variable selection, Biometrical Journal, 55, 217-230

25. Yang, M. (2012). Bayesian variable selection for logistic mixed model with nonparametric random effects, *Computational Statistics and Data Analysis*, 56, 2663-2674
26. Guo, W., Yang, M., Xing, C., and Peddada, S. (2012). Analysis of high dimensional data using pre-defined set and subset information with applications to genomic data, *BMC Bioinformatics*, 13:177
27. Dong, G., Wang, D., Liu, M., Liu, Y., and Yang, M. (2012). Sex difference of the prevalence and risk factors associated with prehypertension among urban Chinese adults from 33 communities of China: the CHPSNE study, *Journal of Hypertension*, 30, 485-491
28. Yang, M. and Dunson, D. (2010). Bayesian semiparametric structural equation models with latent variables, *Psychometrika*, 75, 675-693
29. Hanson, T. and Yang, M. (2008). Bayesian Semiparametric Proportional Odds Models, *Biometrics*, 63, 88-95
30. Yang, M. and Dunson, D. (2010). Semiparametric Bayes hierarchical models with mean and variance constraints, *Computational Statistics and Data Analysis*, 54, 2172-2186
31. Radmer, T., Johnson, T., and Yang, M. (2010). Quantification of tooth displacement, *Journal of Forensic Identification*, 60, 4-18
32. Yang, M., Hanson, T., and Christensen, R. (2008). Nonparametric Bayesian Estimation of Bivariate Density with interval Censored Data, *Computational Statistics and Data Analysis*, 52, 5202-5214

PROFESSIONAL EXPERIENCE

- --Present, Assistant Professor of Biostatistics, School of Public Health, San Diego State University
- --2015 Assistant Professor of Statistics, Central Michigan University.
- --2012 Assistant Professor of Biostatistics, School of Public Health, Saint Louis University.
- --2008 Postdoctoral Research Fellow, Duke University & NIEHS, NIH. Supervisor: *David Dunson*
- 2006 Ph.D. in Statistics, University of New Mexico

Scholarly Awards

1. Premier display grant, Central Michigan (2012) \$1,000
2. Premier display grant, Central Michigan (2013) \$1,000
3. National Science Foundation (NSF) travel grant (2013) \$1,500
4. International Society for Bayesian Analysis travel grant (2016) \$400
5. Travel Grant for 3rd Annual Kilakhandler Conference: Bayesian Inference in Statistics and Statistical Genetics (2017) \$500

Funded Research Grants

1. 1R01DE026742-01 Developing an oral health behavior social support scale for Mexican-origin adults (Dr. Finlayson), \$734,807, Co-I 09/05/2017-06/30/2021
2. HHSN-2682013000051 Hispanic Community Health Study of Latinos (HCHS-SOL) \$2,218,713, Co-I 06/30/17-05/31/2020
3. 98AP2682-01-00 ETR Associates/Administration on Children, youth & families (ACYF), Co-I , 04/2017-09/2018
4. Grant and Research Enterprise Writing (GREW) Fellowship, PI, \$2,500, 2017
5. CTL innovation Mini-Grant, PI, 02/17-06/18 \$1,200
6. CTL innovation Mini-Grant, PI, 02/18-06/19 \$500
7. S00020374 Hispanic Community Children's Health: Study of Latino Youth (SOL-Youth) Co-I 09/17- 09/20
8. \$9,549 Bayesian variable selection for semiparametric mixed effect model: application to Nitrate analysis in air quality study, PI, University Grants Program, San Diego State University, 2016
9. \$44,952 Bayesian variable selection, PI, Michigan, 2013
10. \$112,875 Vibration in enhancement of tooth movement, Co-investigator, NIDCR, NIH, 2011
11. \$25,000 Immigrants' experiences with the health care delivery system in the U.S.: A community based gerontological research project. Co-Investigator, Saint Louis University, 2011

Submitted but not funded

1. R01, Co-I, Combining Ecological Momentary Assessment (EMA), GIS, and Social Media Data to Study the Event-Level Dynamics of Risky Drinking. PI: Mark Reed & Ming-Hsiang Tsou (2018)
2. K01, Parada (2018), I provided free service for my colleague Dr. Parada.
3. President's Leadership Fund (2017), PI
4. R01, Co-I, Pre-clinical trial of loudness and speaking rate in children with spastic cerebral palsy: a kinematic account of intelligibility. \$1,864,455, PI: Ignatius Nip, (2017)
5. R01, Co-I, Social media analytic research testbed for geo-targeted undergraduate individuals and drinking epidemiology (SMART-GUIDE). \$3,534,088,00, PI: Mark Reed & Ming-Hsiang Tsou (2017).
6. R01, Co-I, Promotion of healthy diet among children: An intervention to influence children's food and beverage purchasing and consumption from food stores near schools. PI; Guadalupe Ayala, (2017)
7. R21, Co-I, Home and family based approaches for the prevention or management of overweight or obesity in early childhood. PI Guadalupe Ayala. \$413,510. (2017).
8. R01, CoI, Prognostic indicators of Occupational neck disability. PI Katrina Maluf. (2017)

9. R01, Co-I, Partnership to reduce chronic disease disparities among latinos in primary care, PI (Sheila Castaneda & Greg Talavera)
10. U54 PI (Greggory Talavera, 2017)
11. R01, Co-I, Social media analytic research testbed for geo-targeted undergraduate individuals and drinking epidemiology (SMART-GUIDE). \$3,534,088,00, PI: Mark Reed & Ming-Hsiang Tsou (2016)
12. R01, Co-I, Developing an oral health behavior social support scale for Mexican-origin adults, PI: Tracy Finlayson. (2016)
13. R01, Co-I, Promotion of healthy diet among children: An intervention to influence children's food and beverage purchasing and consumption from food stores near schools. PI; Guadalupe Ayala, (2016)
14. R21, Co-I, Home and family based approaches for the prevention or management of overweight or obesity in early childhood. PI Guadalupe Ayala. \$413,510. (2016)

Pending

Co-I, Cigarette smoking, F2RL3 methylation and hydroxymethylation, and mortality following breast cancer TRDRP 2019A, PI Humberto Parada (2018)

R01, Co-I, Pre-clinical trial of loudness and speaking rate in children with spastic cerebral palsy: a kinematic account of intelligibility. \$1,864,455, PI: Ignatius Nip

PROFESSIONAL MEMBERSHIPS

American Statistical Association
 International Biometrics Society
 International Chinese Statistical Association
 International Society for Bayesian Analysis

JOURNAL REVIEWER

Biometrics
 Statistics in Medicine
 Computational Statistics and Data Analysis
 Biometrical Journal
 Psychometrika
 Journal of Statistical Computation & Simulation
 Communication in Statistics Theory and Methods
 Communication in Statistics Simulation and Computation
 Computational Statistics
 International Statistical Review
 Statistical Papers
 Journal of Biometrics and Biostatistics
 Journal of Statistics & Probability Letters
 Technometrics
 American Statistician