

Curriculum Vitae

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Education

PhD, Texas A&M University. Statistics 2012
Advisor: Bani K Mallick, Veera Baladandayuthapani
MS, Texas A&M University. Biology 2007
BS, Fudan University, Shanghai, China. Biology 2004

Academic Appointments

University of Minnesota
School of Public Health, Division of Biostatistics: 2022 - Present
Associate Professor
School of Public Health, Division of Biostatistics: 2015 - 2022
Assistant Professor
University of Texas MD Anderson Cancer Center
Department of Biostatistics: Postdoctoral Researcher 2012 - 2015
Texas A&M University
Department of Statistics: Research Assistant 2011 - 2012
Texas A&M University
Department of Statistics: Instructor, Teaching Assistant 2008 - 2011
Texas A&M University
Office of Admission and Record: Data Analyst 2008 - 2008
Texas A&M University
Department of Biology: Teaching Assistant 2005 - 2007

Current Membership in Professional Organizations

Faculty member, Phi Chapter of the Delta Omega National Honor Society in Public Health 2020 - Present
Eastern North American Region 2018 - Present
International Society of Bayesian Analysis 2015 - Present
American Statistical Association 2012 - Present

HONORS AND RECOGNITION

External Sources

Travel Award for ENAR Junior Investigator Workshop, International Biometric Society. Washington, DC 2017
G70 Conference Young Investigator Travel Award, Duke University 2015
Student Paper Travel Award of American Statistical Association Section on Bayesian Statistical Science, Joint Statistical Meetings 2012
Elected to Phi Kappa Phi, Texas A&M University 2010

RESEARCH, SCHOLARSHIP, AND CREATIVE WORK

Grants, Contract, Awards: External Sources

- 1. Award: Diabetes in African Youth: Improving Glucose Time-in-Range**
Award Type: R01
Role: Co-Investigator
Principal Investigator: Antoinette Moran, University of Minnesota, Pediatrics
Status: Funded
Sponsoring Organization: NIH
Award Dates: April 1, 2022 – March 31, 2027
Percent Effort: 5%
Funded Amount for Entire Grant Period: \$2,983,415
Direct Costs: 5% Effort of \$2,983,415 (total funded amount)
Purpose: This randomized controlled trial aims to improve T1D care in East African youth age 4-26 years by testing the hypothesis that enabling patients to continuously monitor glucose levels with flash CGM will improve glucose time-in-range, and that this therapy will be cost effective in the setting of a low-resource country.
- 2. Award: A Clinical Trial of Cognitive Multisensory Rehabilitation for Sensory and Motor Recovery in Adults with Spinal Cord Injury**
Role: Co-Investigator
Principal Investigator: Ann Van de Winckel, University of Minnesota, School of Medicine
Status: Funded
Sponsoring Organization: PVA
Award Dates: January 1, 2022 – December 31, 2023
Percent Effort: 5%
Funded Amount for Entire Grant Period: \$150,000
Direct Costs: 5% Effort of \$150,000 (total funded amount)
Purpose: The overall goal of the project is to conduct a clinical trial aiming for cognitive multisensory rehabilitation in SCI for neuropathic pain.
- 3. Award: Role of RBBP4/p300 Complex in Recovery from therapy induced DNA damage in glioblastoma**
Award Type: R01
Role: Co-Investigator
Principal Investigator: Gasper Kitange, University of Minnesota, Hormel Institute
Status: Funded
Sponsoring Organization: NIH
Award Dates: December 19, 2021 – June 30, 2025
Percent Effort: 5%
Funded Amount for Entire Grant Period: \$1,988,347
Direct Costs: 5% Effort of \$1,988,347 (total funded amount)
Purpose: This project will investigate the role of RBBP4/p300 complex in the regulation of DNA damage induced by TMZ and/or RT in glioblastoma.

4. **Award: Minnesota Regional Spinal Cord Injury Model System**
Role: Co-Investigator
Principal Investigator: Leslie Morse, University of Minnesota, School of Medicine
Status: Funded
Sponsoring Organization: US DHHS ACL
Award Dates: September 1, 2021 - August 31, 2026
Percent Effort: 5%
Funded Amount for Entire Grant Period: \$2,200,000
Direct Costs: 5% Effort of \$2,200,000 (total funded amount)
Purpose: The overall goal of the Minnesota Regional SCIMS is to provide a multidisciplinary continuum of care for people with spinal cord injury (SCI) as a basis for research that aligns with NIDILRR's Long-Range Plan and expands existing research that can be used to improve services and outcomes for people with SCI.

5. **Award: Neurofeedback and Neural Plasticity of Self-Processing and Affect Regulation Circuits in Suicide**
Role: Co-Investigator
Principal Investigator: Karina Quenvedo, University of Minnesota, School of Medicine
Status: Funded
Sponsoring Organization: US DHHS ACL
Award Dates: June 22, 2020 - May 31, 2023
Percent Effort: 10%
Funded Amount for Entire Grant Period: \$1,980,883
Direct Costs: 10% Effort of \$1,980,883 (total funded amount)
Purpose: This phased innovation application seeks support to test whether specific neural targets of intervention are affected by neurofeedback training in adolescents with recent suicide attempts and current suicide ideation. Positive results would support future studies to further improve neurofeedback's effectiveness. Even negative results would improve our understanding of intervention loci and mechanism of action; inconclusive brain imaging results would help us formulate better future studies to understand the brain bases of affect regulation.

6. **Award: Discovering causal genes, brain regions and other risk factors for Alzheimer's disease**
Award Type: R01
Role: Co-Investigator
Principal Investigator: Wei Pan, University of Minnesota, School of Public Health
Status: Accepted
Sponsoring Organization: NIH National Institute on Aging (NIA)
Award Dates: March 1, 2020 - February 21, 2025
Percent Effort: 10%
Funded Amount for Entire Grant Period: \$524,018
Direct Costs: 10% Effort of \$524,018 (total funded amount)
Purpose: In response to PA-17-054, "Leveraging Existing Cohort Studies to Clarify Risk and Protective Factors for Alzheimer's Disease and Related Dementias", this research involves both developing new statistical methods and applying them (and existing ones) to integrate existing large-scale AD GWAS and other GWAS of gene expression/transcriptome, neuroimaging or clinical traits to identify or prioritize putative causal genes and risk (and protective) factors for AD.

7. **Award: Cancer Center Support Grant**
Award ID: P30
Award Type: R01
Role: Co-Investigator
Principal Investigator: Douglas Yee, University of Minnesota
Status: Funded
Sponsoring Organization: NIH
Award Dates: March 1, 2019 - January 31, 2024
Percent Effort: 10%
Funded Amount for Entire Grant Period: \$3,784,115
Direct Costs: 10% effort of \$3,784,115 (total funded amount)
Purpose: This Center Grant provides an infrastructure for cancer research, education and patient care for the citizens of the Minnesota and the surrounding region. The mission of the Cancer Center is to create a collaborative environment that advances knowledge about the causes, prevention, detection and treatment of cancer. The Masonic Cancer Center has 7 research programs (Cell Signaling, Carcinogenesis and Chemoprevention, Genetic Mechanisms of Cancers, Immunology, Prevention and Etiology, Transplant Biology and Therapy, Tumor Micro-environment); Biostatistics and Bioinformatics is one of its 11 Shared Resources.

8. **Award: Targeting eIF4A1-dependent HK2 translation axis for prevention of castration-resistant prostate cancer**
Award Type: R01
Role: Co-Investigator
Principal Investigator: Yibin Deng, University of Minnesota, Microbiology and Immunology
Status: Funded
Sponsoring Organization: NIH National Cancer Institute (NCI)
Award Dates: December 1, 2018 - November 30, 2023
Percent Effort: 5%
Funded Amount for Entire Grant Period: \$266,754
Direct Costs: 5% effort of \$266,754 (total funded amount)
Purpose: Androgen deprivation therapy (ADT) is the standard-of-care therapy for advanced/metastatic prostate cancer. Although effective in the short term, ADT is consistently followed by the emergence of castration-resistant prostate cancer (CRPC) in nearly all patients, which represents a major clinical problem but provides a unique window for innovative secondary/tertiary chemoprevention. Our studies will identify a crucial “druggable” target for tumor growth of CRPC and provide a novel and effective chemoprevention strategy to prevent or delay CRPC progression, and therefore will have direct translational impact on currently incurable CRPC patients.

9. **Award: The DNA adductome of lung carcinogenesis**
Award Type: R01
Role: Co-Investigator
Principal Investigator: Silvia Balbo, University of Minnesota, School of Public Health
Status: Funded
Sponsoring Organization: NIH National Cancer Institute (NCI)
Award Dates: April 4, 2018 - March 31, 2023
Percent Effort: 9%
Funded Amount for Entire Grant Period: \$250,000

Direct Costs: 9% effort of \$250,000 (total funded amount)

Purpose: This proposal will use a state of the art high resolution mass spectrometry DNA adductomic technique to structurally characterize the DNA damage in the lung carcinogenic process. Starting from the analysis of animal models this approach will then be used to investigate the DNA adductome in the lung of smokers. The results from the work proposed, will help dissect the molecular pathways of lung carcinogenesis ultimately to identify more effective preventive, therapeutic and diagnostic strategies. Additionally, the outcome from this project will provide a proof of principle for a broader use of our DNA adductomic approach to characterize DNA damage for the investigation of other cancers and for applications in molecular epidemiology studies.

10. Award: Blood Biomarkers as Surrogate Endpoints of Treatment Responses to Aerobic Exercise and/or Cognitive Training in Amnesic Mild Cognitive Impairment

Award Type: R01

Role: Co-Investigator

Principal Investigator: Danni Li, University of Minnesota, Laboratory Medicine and Pathology

Status: Funded

Sponsoring Organization: NIH National Institute on Aging (NIA)

Award Dates: December 1, 2018 - November 30, 2022

Percent Effort: 10%

Funded Amount for Entire Grant Period: \$350,000

Direct Costs: 10% effort of \$350,000 (total funded amount)

Purpose: The objective of this study is to investigate plasma biomarkers as prognostic indicators of cognitive outcomes and as surrogate endpoints for treatment responses to three interventions in older adults with amnesic mild cognitive impairment: aerobic exercise (cycling); cognitive training (speed of processing [SOP]); and combined Aerobic exercise and Cognitive training (ACT: cycling+SOP).

11. Award: The Impact of Insulin Therapy on Protein Turnover in Pre-Diabetic CF Patients

Award Type: R01

Role: Co-Investigator

Principal Investigator: Antoinette Moran, University of Minnesota, Pediatrics

Status: Funded

Sponsoring Organization: NIH National Institute of Diabetes/Digestive/Kidney Disease

Award Dates: August 1, 2015 - May 31, 2022

Percent Effort: 8%

Funded Amount for Entire Grant Period: \$568,128

Direct Costs: 568,128 (total funded amount)

Purpose: The goal of the project is to conduct a double-blind, placebo-controlled trial to determine whether insulin therapy improves protein catabolism in youth with CF and abnormal glucose tolerance, and to explore differences in efficacy between multiple daily pre-meal insulin dosing versus a once daily basal insulin.

Funded and Concluded:

1. Award: Impact of Insulin Therapy on Protein Turnover in Non-Diabetic CF Patients

Role: Co-Investigator

Principal Investigator: Antoinette Moran, University of Minnesota, Pediatrics
Status: Funded
Sponsoring Organization: Cystic Fibrosis Foundation
Award Dates: April 1, 2016 - March 31, 2022
Percent Effort: 5%
Funded Amount for Entire Grant Period: \$72,265
Direct Costs: 5% effort of \$72,265 (total funded amount)
Purpose: The goal of the project is to conduct a double-blind, placebo-controlled trial to determine whether insulin therapy improves protein catabolism in youth with CF and abnormal glucose tolerance, and to explore differences in efficacy between multiple daily pre-meal insulin dosing versus a once daily basal insulin.

2. **Award: Identification of proteins in plasma lipoproteins as biomarkers to aid in diagnosing and predicting progression of Alzheimer's disease in older adults**

Award Type: R21
Role: Co-Investigator
Principal Investigator: Danni Li, University of Minnesota, Laboratory Medicine and Pathology
Status: Funded
Sponsoring Organization: NIH National Institute on Aging AGING (NIA)
Award Dates: February 15, 2019 - January 31, 2022
Percent Effort: 5%
Funded Amount for Entire Grant Period: \$160,106
Direct Costs: 5% effort of \$160,106 (total funded amount)
Purpose: The objective of the proposed study is to identify protein biomarkers in plasma lipoproteins that differ by amyloid deposition status (normal and abnormal) and are correlated with cognitive decline in community-dwelling older adults enrolled in the Atherosclerosis Risk in Communities-Neurocognitive Study (ARIC-NCS).

1. **Award: A New Approach to Reactivating HIV from Latency**

Award Type: R01
Role: Co-Investigator
Principal Investigator: Ashley T. Haase, University of Minnesota, Microbiology and Immunology
Status: Funded
Sponsoring Organization: NIH National Institute of Allergy & Infectious Disease
Award Dates: August 1, 2017 - July 31, 2022
Percent Effort: 10%
Funded Amount for Entire Grant Period: \$387,596
Direct Costs: 10% effort of \$387,596 (total funded amount)
Purpose: Collaborative proposal with the Mayo Clinic and Thai Red Cross to 1) further develop a single cell latency reactivation assay and 2) apply this Tat-reactivation assay in PB and LT to assess the impact of very early ART on reservoir size.

2. **Award: Advanced Reperfusion Strategies for Cardiac Arrest (The ARREST Trial)**

Award Type: R61
Role: Biostatistician
Principal Investigator: Demetri Yannopoulos, University of Minnesota, Medicine
Status: Funded
Sponsoring Organization: NIH

Award Dates: September 21, 2018 - August 31, 2021

Percent Effort: 8.3%

Funded Amount for Entire Grant Period: \$531,769

Direct Costs: 8.3% effort of \$531,769 (total funded amount)

Purpose: This research will randomize (similar to flipping a coin) adult patients with refractory cardiac arrest occurring outside the hospital to receive either standard resuscitation treatment or early ambulance transport to a hospital for treatment with advanced reperfusion strategies. The research will determine which treatment results in the highest rate of survival with good function.

3. Award: Aerobic Exercise in Alzheimer's Disease: Cognition and Hippocampal Volume Effects

Award Type: R01

Role: Co-Investigator

Principal Investigator: Fang Yu, University of Minnesota, Nursing School

Status: Closed

Sponsoring Organization: NIH

Award Dates: August 1, 2013 - April 30, 2021

Funded Amount for Entire Grant Period: \$432,506

Purpose: Two complementary frameworks guide our study: the cardiovascular fitness hypothesis that suggests increased aerobic fitness improves cognition; and the biological mechanistic theory which addresses the lack of specificity of the first framework by identifying the mechanisms of action of aerobic exercise.

4. Award: The Lymphoid Tissue Pharmacology of Antiretroviral Drug

Award Type: R01

Role: Co-Investigator

Principal Investigator: Timothy William Schacker, University of Minnesota, Medical School

Status: Closed

Sponsoring Organization: University of Nebraska Medical Center

Award Dates: April 7, 2016 - March 31, 2021

Funded Amount for Entire Grant Period: \$44,442

Purpose: Our aims are to: (1) Define and compare lymphatic tissue pharmacokinetics (PK) and pharmacodynamics (PD) of antiretroviral drugs, with characteristics that may confer enhanced penetration and persistence in lymph nodes and gut-associated lymphoid tissue, in uninfected and chronically SIV-infected macaques. (2): Characterize and understand the mechanisms underlying the extent of lymphatic distribution of antiretroviral drugs with in vitro and in vivo approaches. (3) Confirm that an ARV regimen with enhanced LT penetration characteristics in macaques translates into improved LT PKPD in HIV-infected persons.

5. Award: A random covariance model for bi-level graphical model inference with application to fMRI data analysis of adolescents with high suicidal risk

Award Type: R03

Role: Principal Investigator

Status: Closed

Sponsoring Organization: NIH Nat'l Institute of Mental Health

Award Dates: September 27, 2017 - May 31, 2020

Funded Amount for Entire Grant Period: \$50,000

Purpose: The overall goal of this project is to develop novel and efficient statistical methods for bi-level graphical model inference and apply them to multi-subject fMRI data for simultaneous inference of group- and subject-level functional connectivity networks among adolescents who suffer from depression.

6. **Award: Access to the cardiac catheterization laboratory in patients without ST-segment elevation myocardial infarction resuscitated from out-of-hospital ventricular fibrillation cardiac arrest (The ACCESS Trial- DCC)**

Award Type: R01

Role: Co-Investigator

Principal Investigator: John E Connett, University of Minnesota, School of Public Health

Status: Closed

Sponsoring Organization: NIH

Award Dates: September 15, 2016 - May 31, 2020

Funded Amount for Entire Grant Period: \$166,354

Purpose: Two different in-hospital treatments are currently provided in the United States for patients who have return of pulses after out-of-hospital cardiac arrest: 1) emergency coronary angiography (a procedure to look at the arteries of the heart and clear blockages, if they are present), and 2) no emergency coronary angiography (providing this procedure later, if it is indicated). It is unknown which treatment is better. This study will randomize (placing patients into one of these two groups by chance that favors the treatment that, at the current time, is shown to be better) adult patients who have return of pulses after a certain kind of cardiac arrest (called ventricular tachycardia / ventricular fibrillation) to one of these two standard treatments and determine which treatment results in better survival to hospital discharge with good function.

7. **Award: Interactions between tobacco smoke constituents in rodent tumor models**

Award Type: R01

Role: Co-Investigator

Principal Investigator: Lisa Peterson, University of Minnesota, School of Public Health

Status: Closed

Sponsoring Organization: NIH

Award Dates: June 15, 2014 - May 31, 2020

Funded Amount for Entire Grant Period: \$430,700.00

Purpose: The goal of this project is to characterize the potential interactions between known human carcinogens (NNK, NNN, or BaP) and volatile components of tobacco smoke (acetaldehyde, acrolein, and formaldehyde) in established rodent tumor models.

8. **Award: Development of Multi-Parametric MRI Model of Clinically Significant Prostate Cancer**

Award Type: R01

Role: Co-Investigator

Principal Investigators: Joseph Stephen Koopmeiners, University of Minnesota, School of Public Health, G. Metzger, University of Minnesota, Radiology, (Co-Principal)

Status: Closed

Sponsoring Organization: Department of Defense (DOD)

Award Dates: September 30, 2015 - September 29, 2019

Funded Amount for Entire Grant Period: \$91,628

Purpose: Task 1. Expand the number of correlative MRI-pathology datasets available for model development. Task 2. Improve the correlative pathology gold standard by subclassifying annotated regions of cancer using quantitative IHC. Task 3. Develop an iterative data normalization procedure to account for subject-specific effects in the data. Task 4. Develop a statistical classifier that accounts for spatial dependence in mpMRI. Task 5. Develop a predictive model that can identify clinically significant disease.

9. **Award: Cancer Center Support Grant**

Award Type: P30

Role: Co-Investigator

Principal Investigator: Douglas Yee, University of Minnesota, Medicine

Status: Closed

Sponsoring Organization: NIH

Award Dates: February 1, 2014 - January 31, 2019

Funded Amount for Entire Grant Period: \$2,498,943

Purpose: This Center Grant provides an infrastructure for cancer research, education and patient care for the citizens of the Minnesota and the surrounding region. The mission of the Cancer Center is to create a collaborative environment that advances knowledge about the causes, prevention, detection and treatment of cancer. The Masonic Cancer Center has 7 research programs (Cell Signaling, Carcinogenesis and Chemoprevention, Genetic Mechanisms of Cancers, Immunology, Prevention and Etiology, Transplant Biology and Therapy, Tumor Micro-environment); Biostatistics and Bioinformatics is one of its 11 Shared Resources.

Other Grants, Awards, Gifts, or Endowment Earnings (Internal Sources)

1. **Award: Dynamic graphical modeling: application to longitudinal neuroimaging data**

Role: Principal Investigator

Status: Closed

Sponsoring Organization: Grant-in-Aid of Research, Artistry and Scholarship (GIA)

Award Dates: January 2017 - June 30, 2018

Funded Amount for Entire Grant Period: \$50,000.00

Purpose: To develop novel Bayesian statistical methods for dynamic graphical modeling with application to inference of dynamic functional connectivities among brain regions using neuroimaging data.

Publications

Underline - indicates student author; †: Correspondence author;

Peer-Reviewed Journal Article

1. Van de Winckel, A., Carpentier, S., Deng, W., Bottale, S., Hendrickson, T., **Zhang, L.**, Wudlick, R., Linnman, C., Battaglino, R., Morse, L., Ludewig, P., Lim, K. (2022) Identifying body awareness-related brain network changes after cognitive multisensory rehabilitation for neuropathic pain relief in adults with spinal cord injury: Protocol of a Phase I Randomized Controlled Trial. *Topics in Spinal Cord Injury Rehabilitation*, accepted.

2. Jin, J., Zhang, L., Leng, E., Metzger, G.J., & Koopmeiners, J.S. (2022) A Multi-resolution Super Learner Algorithm for the Voxel-wise Classification of Prostate Cancer Using Multi-parametric MRI. *Journal of Applied Statistics*, accepted.
Role: contribution to the main idea; supervising the method development, statistical analysis, and paper writing
3. Masotti, M., Zhang, L,†, E. Leng, G. J. Metzger, & Koopmeiners, J.S. (2021) A Novel Bayesian Functional Spatial Partitioning Method with Application to Prostate Cancer Lesion Detection Using MRI. Accepted by *Biometrics*.
(Winner of ENAR Distinguished Student Paper Awards for the ENAR 2022)
Role: initiating the main idea; supervising the method development, statistical analysis, and paper writing
4. Jin, J., Zhang, L., Leng, E., Metzger, G., & Koopmeiners, J. (2021) Bayesian Hierarchical Models for Voxel-wise Classification of Prostate Cancer Accounting for Spatial Correlation and Between-Patient Heterogeneity in the Multi-Parametric MRI Data. Accepted by *Statistics in Medicine*.
Role: contribution to the main idea; supervising the method development, statistical analysis, and paper writing
5. Yang, Y., Basu, S., & Zhang, L. (2021) A Bayesian hierarchically structured prior for gene-based association testing with multiple traits in genome-wide association studies. *Genetic Epidemiology*, in press. doi: 10.1002/gepi.22437.
Role: initiating the main idea; supervising the method development, statistical analysis, and paper writing
6. Li, D., Zhang, L., Nelson, N.W., Mielke, M.M., Yu, F. Plasma Neurofilament Light and Future Declines in Cognition and Function in Alzheimer's Disease in the FIT-AD Trial. (2021) *Journal of Alzheimer's Disease Reports*, 5 (1), pp. 601-611.
7. Zbýň, Š., Santiago, C., Johnson, C. P., Ludwig, K.D., Zhang, L., Marette, S., Tompkins, M.A., Nelson, B.J., Takahashi, T., Metzger, G.J., Carlson, C.S., & Ellermann, J. M (2021) Compositional Evaluation of Lesion and Parent Bone in Patients with Juvenile Osteochondritis Dissecans of the Knee using T2* Mapping. Accepted by *Journal of Orthopaedic Research*.
Role: contributing to statistical analysis and paper writing
8. DiLernia, A. S., Quevedo, K., Camchong, J., Lim, K., Wei, P., & Zhang, L. (2021). Penalized model-based clustering of fMRI data. *Biostatistics*, kxaa061.
<https://doi.org/10.1093/biostatistics/kxaa061>
(One of three winners of *Statistical Methods in Imaging (SMI) 2020 Student Paper Award*)
Role: initiating the main idea; supervising the method development, statistical analysis, and paper writing
9. Yang, Y., Basu, S., & Zhang, L. (2021) A Bayesian Hierarchically Structured Prior for Rare-Variant Association Testing. *Genetic Epidemiology*, 45(4):413-424. doi: 10.1002/gepi.22379
Role: initiating the main idea; supervising the method development, statistical analysis, and paper writing
10. Wyman, J., Greimel, S., Zhang, L., & Yu, F. (2021) Recruitment and Screening Methods in Alzheimer's Disease Research: The FIT-AD Trial. *Journal of Gerontology: Medical Sciences*, glab092. doi: 10.1093/gerona/glab092
Role: contributing to statistical analysis and paper writing
11. Peterson, L., Oram, M., Flavin, M., Seabloom, D., Smith, W., O'Sullivan, G.M., Vevang, K., Upadhyaya, P., Stornetta, A., Floeder, A., Ho, Y-Y, Zhang, L., Hecht, S., Balbo, S., & Wiedmann, T. (2021) Co-exposure to inhaled aldehydes or carbon dioxide enhances the

- carcinogenic properties of the tobacco specific nitrosamine NNK in A/J mouse lungs. *Chemical Research in Toxicology*, 34(3):723-732. doi: 10.1021/acs.chemrestox.0c00350
Role: contributing to statistical analysis and paper writing
12. Yu, F., Vock, D., **Zhang, L.**, Salisbury, D., Jack, C., Nelson, N. W., Chow, L., Smith, G., Barclay, T., Dysken, M., & Wyman, J. F. (2021). Cognitive Effects of Aerobic Exercise in Alzheimer's Disease: A Pilot Randomized Controlled Trial. *Journal of the American Geriatrics*, 80(1): 233-244. doi: 10.3233/JAD-201100
Role: contributing to statistical analysis and paper writing
13. Zhao, X., **Zhang, L.**, & Bandyopadhyay, D. (2021). A shared spatial model for multivariate extreme-valued binary data with non-random missingness. *Sankhya B*. 83 (2), pp. 374-396. doi: <https://doi.org/10.1007/s13571-019-00198-7>
Role: contributing to the main idea; supervising the method development, statistical analysis, and paper writing
14. Diessner, B.J., Wiegel, B.J., Murugan, P., **Zhang, L.**, Poynter, J.N., & Spector, L.G. (2020). Associations of socioeconomic status, insurance status and racial disparities with the presence of metastatic sarcoma at diagnosis. *JAMA Network Open*, 3(8):e2011087. doi:10.1001/jamanetworkopen.2020.11087
Role: advising on statistical analysis and paper writing
15. Diessner, B.J., Weigel, B.J., Murugan, P., **Zhang, L.**, Poynter, J.N., & Spector, L.G. (2020). Racial and ethnic differences in sarcoma incidence are independent of census-tract socioeconomic status. *Cancer Epidemiology, Biomarkers & Prevention*, 29(11):2141-2148. doi: 10.1158/1055-9965
Role: advising on statistical analysis and paper writing
16. Yannopoulos, D., Bartos, J., Raveendran, G., Walser, E., Connett, J., Murray, T.A., Collins, G., **Zhang, L.**, Kalra, R., Kosmopoulos, M., John, R., Shaffer, A., Frascone, R.J., Wesley, K., Conterato, M., Biros, M., Tolar, J., & Aufderheide, T.P. (2020). Advanced reperfusion strategies for patients with out-of-hospital cardiac arrest and refractory ventricular fibrillation (ARREST): a phase 2, single centre, open-label, randomised controlled trial. *Lancet (London, England)*, 396 (10265), 1807-1816. doi: 10.1016/S0140-6736(20)32338-2
Role: contributing to statistical analysis and paper writing
17. Grant, A., Metzger, G. J., Van de Moortele, P. F., Adriany, G., Olman, C., **Zhang, L.**, & Uğurbil, K. (2020). 10.5 T MRI static field effects on human cognitive, vestibular, and physiological function. *Magnetic Resonance Imaging*, 73, 163-176. doi: 10.1016/j.mri.2020.08.004
Role: contributing to statistical analysis and paper writing
18. Beckman, A. K., Ng, V.L., Jaye, D. L., Gaddh, M., Williams, S. A., Yohe, S. L., **Zhang, L.**, & Linden, M. A. (2020). Clinician-ordered peripheral blood smears have low reimbursement and variable clinical value: a three-institution study, with suggestions for operational efficiency. *Diagnostic Pathology*, 15(1), 112. doi: 10.1186/s13000-020-01033-8
Role: contributing to statistical analysis and paper writing
19. Li, X., Slinin, Y. X., **Zhang, L.**, Dengel, D. R., Tupper, D., Metzger, G. J., & Murray, A. M. (2020). Cerebral blood flow characteristics following hemodialysis initiation in older adults: A prospective longitudinal pilot study using arterial spin labeling imaging. *NeuroImage. Clinical*, 28, 102434. doi: 10.1016/j.nicl.2020.102434
Role: contributing to statistical analysis and paper writing
20. Moheet, A., Beisang, D., **Zhang, L.**, Sagel, S. D., VanDalfsen, J. M., Heltshe, S. L., & Moran, A. (2020). Lumacaftor/ivacaftor therapy fails to increase insulin secretion in F508del/F508del CF

- patients. *Journal of Cystic Fibrosis*, 20(2):333-338. doi: 10.1016/j.jcf.2020.09.001
Role: contributing to statistical analysis and paper writing
21. **Zhang, L., DiLernia, A.,** Quevedo, K., Camchong, J., Lim, K., & Pan, W. (2020). A random covariance model for bi-level graphical modeling with application to resting-state fMRI data. *Biometrics*, 77(4):1385-1396. doi: 10.1111/biom.13364
Role: initiating the idea; primary responsibility for the method development, statistical analysis, and paper writing
22. Kanankege KST, Alvarez, J., **Zhang, L.,** & Perez, A. M. (2020). An Introductory Framework for Choosing Spatiotemporal Analytical Tools in Population-Level Eco-Epidemiological Research. *Frontiers in Veterinary Science*, 7, 339. doi: 10.3389/fvets.2020.00339
Role: advising on statistical analysis and paper writing
23. Te, H. S., Perlman, D. M., Shenoy, C., Steinberger, D. J., Cogswell, R. J., Roukoz, H., Peterson, E.K., **Zhang, L.,** Alle, T.L., & Bhargava, M. (2020). Clinical characteristics and organ system involvement in sarcoidosis: comparison of the University of Minnesota Cohort with other cohorts. *BMC Pulmonary Medicine*, 20(1), 155. doi: 10.1186/s12890-020-01191-x
Role: advising on statistical analysis and paper writing
24. **Zhang, L.,** & Bandyopadhyay, D. (2020). A graphical model for skewed matrix-variate non-randomly missing data. *Biostatistics*, 21(2), e80-e97. doi: 10.1093/biostatistics/kxy056
Role: initiating the main idea; primary responsibility for the method development, statistical analysis, and paper writing
25. Yang, Y., Basu, S., & **Zhang, L.** (2020). A Bayesian hierarchical variable selection prior for pathway-based GWAS using summary statistics. *Statistics in Medicine*, 39(6), 724-739. doi: 10.1002/sim.8442
Role: initiating the main idea; supervising the method development, statistical analysis, and paper writing
26. Li, D., Mielke, M. M., Bell, W.R., Reilly, C., **Zhang, L.,** Lin, F.V., & Yu, F. (2020). Blood biomarkers as surrogate endpoints of treatment responses to aerobic exercise and cognitive training (ACT) in amnesic mild cognitive impairment: the blood biomarkers study protocol of a randomized controlled trial (the ACT Trial). *Trials*, 21(1), 19. doi: 10.1186/s13063-019-3798-1
Role: contributing to statistical analysis and paper writing
27. Kanankege KST, Machado, G., **Zhang, L.,** Dokkebakken, B., Schumann, V., Wells, S. J., & Alvarez, J. (2019). Use of a voluntary testing program to study the spatial epidemiology of Johne's disease affecting dairy herds in Minnesota: a cross sectional study. *BMC Veterinary Research*, 15(1), 429. doi: 10.1186/s12917-019-2155-7
Role: advising on statistical analysis and paper writing
28. Peterson, L. A., Ignatovich, I.V., Grill, A.E., Beauchamp, A., Ho, Y.Y., DiLernia, A.S., & **Zhang, L.** (2019). Individual Differences in the Response of Human β -Lymphoblastoid Cells to the Cytotoxic, Mutagenic, and DNA-Damaging Effects of a DNA Methylating Agent, *N*-Methylnitrosourea. *Chemical Research in Toxicology*, 32(11), 2214-2226. doi: 10.1021/acs.chemrestox.9b00266
Role: contributing to statistical analysis and paper writing
29. Holtan, S.G., **Zhang, L.,** DeFor, T.E., Bejanyan, N., Arora, M., Rashidi, A., & Weisdorf, D.J. (2019). Dynamic Graft-versus-Host Disease-Free, Relapse-Free Survival: Multistate Modeling of the Morbidity and Mortality of Allotransplantation. *Biology of Blood and Marrow Transplantation*, 25(9), 1884-1889. doi: 10.1016/j.bbmt.2019.05.015
Role: primary responsible for developing and implementing the method, conducting the data

analysis, and contributing to paper writing

30. **Jin, J., Zhang, L.,** Leng, E., Metzger, G. J., & Koopmeiners, J. S. (2018). Detection of prostate cancer with multiparametric MRI utilizing the anatomic structure of the prostate. *Statistics in Medicine*, 37(22), 3214-3229. doi: 10.1002/sim.7810
Role: contributing to the main idea; supervising the method development, statistical analysis, and paper writing
31. Li, D., Huang, F., Zhao, Y., Villata, P. W., Griffin, T. J., **Zhang, L.,** & Yu, F. (2018). Plasma lipoproteome in Alzheimer's disease: a proof-of-concept study. *Clinical Proteomics*, 15, 31. doi: 10.1186/s12014-018-9207-z
Role: contributing to statistical analysis and paper writing
32. Herrera, J., Beisang, D.J., Peterson, M., Forster, C., Gilbertsen, A., Benyumoy, A., Smith, K., Korenczuk, C., Barcoas, V.H., Guenther, K., Hite, R., **Zhang, L.,** Henke, C.A., & Bitterman, P.B. (2018). Dicer1 Deficiency in the Idiopathic Pulmonary Fibrosis Fibroblastic Focus Promotes Fibrosis by Suppressing MicroRNA Biogenesis. *American Journal of Respiratory and Critical Care Medicine*, 198(4), 486-496. doi: 10.1164/rccm.201709-1823OC
Role: contributing to statistical analysis and paper writing
33. Kityo, C., Makamdop, K.N., Rothenberger, M., Chipman, J.G., Hoskuldsson, T., Beilman, G.J., Grzywacz, B., Mugenyi, P., Ssali, F., Akondy, R.S., Anderson, J., Schmidt, T.E., Reimann, T., Callisto, S.P., Schoepfoerster, J., Schuster, J., Muloma, P., Ssengendo, P., Moysi, E., Petrovas, C., Lanciotti, R., **Zhang, L.,** Arévalo, M.T., Rodriguez, B., Ross, T.M., Trautmann, L., Sekaly, R.-P., Lederman, M.M., Koup, R.A., Ahmed, R., Reilly, C., Douek, D.C., & Schacker, T.W. (2018). Lymphoid tissue fibrosis is associated with impaired vaccine responses. *The Journal of Clinical Investigation*, 128(7), 2763-2773. doi: 10.1172/JCI97377
Role: contributing to statistical analysis and paper writing
34. **Yang, Y.,** Basu, S., Mirabello, L., Spector, L., & **Zhang, L.** (2018). A Bayesian Gene-Based Genome-Wide Association Study Analysis of Osteosarcoma Trio Data Using a Hierarchically Structured Prior. *Cancer Informatics*, 17, 1176935118775103. doi: 10.1177/1176935118775103
Role: initiating the main idea; supervising the method development, statistical analysis, and paper writing
35. Leng, E., Spilseth, B., **Zhang, L.,** **Jin, J.,** Koopmeiners, J.S., & Metzger, G.J. (2018). Development of a measure for evaluating lesion-wise performance of CAD algorithms in the context of mpMRI detection of prostate cancer. *Medical Physics*, 45(5), 2076-2088. doi: 10.1002/mp.12861
Role: advising on statistical analysis and paper writing
36. **Zhang, L.,** Baladandayuthapani, V., Zhu, H., Baggerly, K.A., Majewski, T., Czerniak, B.A., & Morris, J.S. (2016). Functional CAR models for large spatially correlated functional datasets. *Journal of the American Statistical Association – Theory and Methods*, 111(514), 772-786. doi: 10.1080/01621459.2015.1042581
Role: initiating the main idea; primary responsibility for the method development, statistical analysis, and paper writing
37. **Zhang, L.,** Sarkar, A., & Mallick, B.K. (2016). Bayesian sparse covariance decomposition with a graphical structure. *Statistics and Computing*, 493-510.
Role: initiating the main idea; primary responsibility for the method development, statistical analysis, and paper writing
38. **Zhang, L.,** Morris, J.S., Zhang, J., Orłowski, R.Z., & Baladandayuthapani, V. (2014). Bayesian joint selection of genes and pathways: applications in multiple myeloma genomics. *Cancer Informatics*, 13(Suppl 2), 113-23. doi: 10.4137/CIN.S13787
Role: initiating the main idea; primary responsibility for the method development, statistical

analysis, and paper writing

39. **Zhang, L.**, Baladandayuthapani, V., Mallick, B.K., Manyam, G.C., Thompson, P.A., Bondy, M.L., & Do, K.A. (2014). Bayesian hierarchical structured variable selection methods with application to MIP studies in breast cancer. *Journal of the Royal Statistical Society: Series C, Applied Statistics*, 63(4), 595-620. doi: 10.1111/rssc.12053
Role: initiating the main idea; primary responsibility for the method development, statistical analysis, and paper writing
40. **Zhang, L.**, & Mallick, B. K. (2013). Inferring gene networks from discrete expression data. *Biostatistics (Oxford, England)*, 14(4), 708-22. doi: 10.1093/biostatistics/kxt021
Role: initiating the main idea; primary responsibility for the method development, statistical analysis, and paper writing

Publications Submitted

Underline - indicates student author; †: Correspondence author;

Peer-Reviewed Journal Article

1. Masotti, M., **Zhang, L.** †, Metzger, G.J., Koopmeiners, J.S. A General Bayesian Functional Spatial Partitioning Method for Multiple Region Discovery Applied to Prostate Cancer MRI. *Bayesian Analysis*. [Resubmitted]
Role: initiating the main idea; supervising the method development, statistical analysis, and paper writing
2. **Zhang, L.**, Baladandayuthapani, V., Neville, Q., Quevedo, K., and Morris, J. S. Bayesian functional graphical models. *Journal of the Royal Statistical Society: Series B*. [Submitted] arXiv:2108.05034
Role: initiating the main idea; primary responsibility for the method development, statistical analysis, and paper writing
3. Zbýň S., Kajabi, A.W., Nourae, C.M., Ludwig, K.D., Johnson, C.P., Tompkins, M.A., Nelson, B.J., Zhang, L., Moeller, S., Murette, S., Metzger, G.J., Carlson, C.S., Ellermann, J.M. Evaluation of Lesion and Overlying Articular Cartilage Microstructure in Patients with Juvenile Osteochondritis Dissecans of the Knee with Diffusion MRI. *Osteoarthritis and Cartilage*. [Submitted]
Role: contributing to statistical analysis and paper writing
4. Van de Winckel, A., Deng, W., Carpentier, S., Morse, L., Zhang, L., Battaglino, R. Using remotely delivered Spring Forest Qigong™ to reduce neuropathic pain in adults with spinal cord injury: Protocol of a quasi-experimental clinical trial. *BMJ Open*. [Submitted]
Role: contributing to statistical analysis and paper writing
5. Peterson, L., Seabloom, D., Smith, W., Vevang, K., Zhang, L., Wiedmann, T. Acrolein increases the pulmonary tumorigenic activity of the tobacco specific nitrosamine, 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK). *Chemical Research in Toxicology*. [Submitted]
Role: contributing to statistical analysis and paper writing
6. Ortiz, D., Nix, B.T., **Zhang, L.**, Sein, J., Chang, C., Uğurbil, K., & Henry, T.R. Imaging the Endopiriform Nucleus with 7 Tesla MRI in Partial Epilepsy and in Healthy Subjects. *NeuroImage*. [Under Revision]
Role: contributing to statistical analysis and paper writing
7. Nelson, N.W., **Zhang, L.**, Greimel, S., & Yu, F. Relative Predictive Values of Neuropsychological Measures for Global Cognition, Daily Function, and Dementia Stage in Alzheimer's Disease.

Clinical Neuropsychology. [Submitted]

Role: contributing to statistical analysis and paper writing

8. Li, X., Zhang, J., Wang, D, **Zhang, L.**, Dengel, D.R., Murray, A., Zhang, X., Metzger, G.J. Rapid and Simultaneous in vivo Imaging of Blood T1 and T2. *NeuroImage*. [Submitted]
Role: contributing to statistical analysis and paper writing

Invited Presentations, Posters, and Exhibits

Underline - indicates student presenter

Invited Presentation/Talk

1. **Zhang, L.**, "Bayesian functional graphical model for dynamic functional connectivity network inference." 5th International Conference on Econometrics and Statistics, Virtual, Japan. (June 2022). *Invited*.
2. **Zhang, L.**, "Bayesian functional graphical model for dynamic functional connectivity network inference." 2022 Statistical Methods in Imaging Conference, Vanderbilt University, United States. (May 2022). *Invited*.
3. **Zhang, L.**, "Bi-level graphical modeling of functional connectivity analysis of resting-state fMRI data." International India Statistical Association (IISA) 2021 Conference, Virtual, United States. (May 2021). *Invited*.
4. **Zhang, L.**, "Bi-level graphical modeling of functional connectivity analysis of resting-state fMRI data." International India Statistical Association (IISA) 2021 Conference, Virtual, United States. (May 2021). *Invited*.
5. **Zhang, L.**, "Bi-level graphical modeling of functional connectivity analysis of resting-state fMRI data." Seminar talk in the Department of Biostatistics, Virginia Commonwealth University, Richmond, Virginia, United States. (March 2021). *Invited*.
6. **Zhang, L.**, "Bi-level graphical modeling of functional connectivity analysis of resting-state fMRI data." Eastern North American Region International Biometric Society (ENAR) - 2021 Spring Meeting, Virtual. (March 2021). *Invited*.
7. **Zhang, L.**, "Bi-level graphical modeling of functional connectivity analysis of resting-state fMRI data." Seminar talk in the Department of Statistics, University of Minnesota, Minneapolis, Minnesota, United States. (February 2021). *Invited*.
8. **Zhang, L.**, "Functional graphical models with application to smoking cessation studies," International Chinese Statistical Association (ICSA) International Conference, Chicago, Illinois, United States. (June 2017). *Invited*.
9. **Zhang, L.**, "Functional CAR models for spatially correlated high-dimensional functional data," 10th International Chinese Statistical Association (ICSA) International Conference, China. (December 2016). *Invited*.
10. **Zhang, L.**, "Variable selection for genetic data in presence of hierarchical structure," International Indian Statistical Association (IISA), Corvallis, Oregon, United States. (August 2016). *Invited*.
11. **Zhang, L.**, "Functional CAR models for spatially correlated high-dimensional functional data," Joint Statistical Meeting, Chicago, Illinois, United States. (August 2016). *Invited*.

12. **Zhang, L.**, "Variable selection for genetic data in the presence of hierarchical structure," Epidemiology Genetics Club University of Minnesota, Minneapolis, Minnesota, United States. (February 2016). *Invited*.
13. **Zhang, L.**, "Functional CAR models for spatially correlated genomics data," U Spatial Forum 2015 University of Minnesota, Minneapolis, Minnesota, United States. (November 2015). *Invited*.
11. **Zhang, L.**, "Bayesian hierarchical structured variable selection methods," Joint Statistical Meetings, Boston, Massachusetts, United States. (August 2014). *Contributed Topic*.
12. **Zhang, L.**, "Bayesian hierarchical structured variable selection with application to MIP studies in breast cancer," Joint Statistical Meetings, San Diego, California, United States. (July 2012). *Contributed Topic*.

Poster

1. **Zhang, L.**, "Functional graphical models with application to smoking cessation studies." Eastern North American Region International Biometric Society (ENAR) - 2016 Spring Meeting, Austin, Texas, United States. (March 2016). *Invited*.
2. **Zhang, L.**, "Functional CAR models for spatially correlated high-dimensional functional data," G70 Conference Duke University, Durham, North Carolina, United States. (2015).
3. **Zhang, L.**, "Functional CAR models for spatially correlated high-dimensional functional data," Bayesian Biostatistics & Bioinformatics Conference, Houston, Texas, United States. (2014).

TEACHING

Scheduled Teaching

Intro to Bayesian Analysis: PUBH 7440:	Spring 2022, Spring 2021, Spring 2020, Spring 2018, Spring 2017, Spring 2016
Spatial Biostatistics: PUBH 8472:	Spring 2021, Spring 2019, Spring 2017
Directed Research: Biostat: PUBH 8494:	Spring 2021, Summer 2018, Fall 2017
Integrative Exp: Biostats: PUBH 7494:	Spring 2020
Culminating Experience: Biostat: PUBH 7494:	Spring 2018, Spring 2017

PROFESSIONAL DEVELOPMENT ACTIVITIES

1. Workshop, "Panel & Discussion: Writing and Project-Based Learning, Teaching with Writing Series," Center for Writing, University of Minnesota 2017
2. Workshop, "Active Learning 101: A Whirlwind Tour," Center for Writing, University of Minnesota 2017

ADVISING AND MENTORING

Graduate Student Activities

Advisees

1. Quinton Neville, Biostatistics PhD 2021 - Present

- | | |
|---|----------------|
| 2. Nirali Patel, Biostatistics PhD | 2019 - Present |
| 3. Maria Masotti, Biostatistics PhD
(2022 Jacob E. Bearman Student Achievement Award) | 2020 - 2022 |
| 4. Andrew Dilernia, Biostatistics PhD
(2020-2021 Biostatistics Research Assistant Award and nominee of the Delta Omega national Honor Society) | 2018 - 2021 |
| 5. Yi Yang, Biostatistics PhD
(2020 Jacob E. Bearman Student Achievement Award) | 2017 - 2020 |
| 6. Jin Jin, Biostatistics PhD | 2016 - 2019 |
| 7. Ruth Bidwell, Biostatistics MS | 2021 - Present |
| 8. Zeya Zang, Biostatistics MS | 2021 - Present |
| 9. Torri Simon, Biostatistics MS | 2019 - 2020 |
| 10. Ziyu Ji, Biostatistics MS | 2017 - 2018 |
| 11. Nicholas Marka, Biostatistics MS | 2017 - 2018 |
| 12. Yuanyuan Ji, Biostatistics MS | 2017 - 2018 |
| 13. Yi Yang, Biostatistics MS | 2016 - 2017 |

Committee Advising

Doctoral Final Committee: Committee Chair

- | | |
|--|----------------|
| 1. Maria Masotti, Biostatistics PhD
(2022 Jacob E. Bearman Student Achievement Award) Thesis:
<i>Bayesian Functional Spatial Partitioning Methods for Prostate Cancer Lesion Detection</i> | 2020 - Present |
| 2. Andrew Dilernia, Biostatistics PhD
(2020-2021 Biostatistics Research Assistant Award and nominee of the Delta Omega national Honor Society) Thesis: <i>New Estimation and Inferential Methods for Functional Connectivity analysis</i> | 2018 - 2021 |
| 3. Yi Yang, Biostatistics PhD
(2020 Jacob E. Bearman Student Achievement Award) Thesis:
<i>Bayesian Hierarchical Models for Multi-Variant and Multi-Trait Genome-Wide Association Studies</i> | 2017 - 2020 |

Doctoral Final Committee: Committee Co-Chair

- | | |
|--|-------------|
| 1. Jin Jin, Biostatistics PhD
Thesis: <i>Voxel-wise Classification of Prostate Cancer Using Multi-parametric MRI Data</i> | 2016 - 2019 |
|--|-------------|

Doctoral Final Committee: Committee Reviewer

- | | |
|---|------|
| 1. Souvik Seal, Biostatistics PhD
Thesis: <i>Efficient SNP based Heritability Estimation and Multiple Phenotype- Genotype Association Analysis in Large Scale Cohort studies</i> | 2020 |
|---|------|

2. Yangqing Deng, Biostatistics PhD 2020
 Thesis: *Genetic Testing with Conditional Analysis and Summary Statistics*
3. Anne Eaton, Biostatistics PhD 2020
 Thesis: *Non-Parametric Estimation of Probability in Disease States, Restricted Mean Time in Disease States, and Mean Cumulative Marker Process*
4. Brandon Diessner, Epidemiology PhD 2020
 Thesis: *Associations of social and genetic factors with sarcoma incidence and outcomes*
5. Kaushi Supun Tharindi Kanankege, Veterinary Medicine PhD 2019
 Thesis: *The use of spatiotemporal analytical tools to inform decisions and policy in One Health scenarios*
6. Xiaoyue Zhao, Biostatistics PhD 2017
 Thesis: *Bayesian modeling and inference for asymmetric responses with applications*
7. Chen Gao, Biostatistics PhD 2017
 Thesis: *Estimation of Gaussian Networks and Modular Brain Functional Networks*
8. Cynthia Basu, Biostatistics PhD 2017
 Thesis: *Bayesian Hierarchical Models for Data Extrapolation and Analysis in Rare and Pediatric Disease Clinical Trials*
9. Yun Bai, Biostatistics PhD 2016
 Thesis: *Statistical methods for genetic and epigenetic studies*
10. Maitreyee Bose, Biostatistics PhD 2016
 Thesis: *Understanding Gaussian Process Fits and Some Model Building Tools Using an Approximate Form of the Restricted Likelihood*

Master's Thesis/Research Committee: Committee Chair

1. Ruth Bidwell, Biostatistics MS 2021
2. Torri Simon, Biostatistics MS 2020
3. Ziyu Ji, Biostatistics MS 2018
4. Nicholas Marka, Biostatistics MS 2018
5. Yuanyuan Ji, Biostatistics MS 2018
6. Yi Yang, Biostatistics MS 2017

Master's Thesis/Research Committee: Committee Member

1. Zeya Zang, Biostatistics MS 2022
2. Wei Deng, Physical Therapy MS 2022
3. Chao Zhang, Biostatistics MS 2021
4. Yue Qiu, Statistics MS 2020
5. Sijia Liang, Statistics MS 2019
6. Xiaowan Liu, Statistics MS 2018
7. Nicholas Havlicek, Statistics MS 2018
8. Bin Guo, Biostatistics MS 2018
9. Collin Calvert, Epidemiology MS 2019
10. Yuchen Chen, Statistics MS 2017

11. Yin-Ting Chou, Statistics MS 2017
12. Jingyu Wu, Public Health Administration & Policy MPH 2021

SERVICE

Service to the Discipline/Profession/Interdisciplinary Area(s)

Editorial Board

1. Frontiers in Genetics 2021 - present

Journal Reviewer

1. *Annals of Applied Statistics*
2. *Bayesian Analysis*
3. *Biometrics*
4. *Biostatistics*
5. *BMJ Open*
6. *Communications in Statistics*
7. *Computational Statistics and Data Analysis*
8. *Environmetrics*
9. *International Journal of Biostatistics*
10. *Journal of American Statistical Association*
11. *Journal of Machine Learning Research*
12. *PLoS One*
13. *Sankhya B*
14. *Statistica Sinica*
15. *Statistical Communications in Infectious Diseases*
16. *Statistics in Medicine*
17. *Statistics in Bioscience*
18. *The Canadian Journal of Statistics*

Other Professional Activities

1. Member, DSMB for “Combining Neuro-Imaging and Non-Invasive Brain Stimulation for Clinical Intervention in Opioid Use Disorder”, National Institute on Drug Abuse 2020 - present
2. Reviewer, Mathematical Reviews 2019 - present
3. Member, Eastern North American Region (ENAR) Regional Advisory Board 2017-2020
4. Reviewer, Student Paper Travel Award 2021 for the American Statistical Association Section on Bayesian Statistical Science 2020
5. Reviewer, Student Paper Travel Award 2017 for the American Statistical Association Section on Bayesian Statistical Science 2016
6. Reviewer, Student Paper Travel Award 2016 for the American Statistical Association Section on Bayesian Statistical Science 2015

Peer Mentoring

1. Biostatistics Mentor, UMN CTSI KL2 award for “Targeting R-loop regulation in myelodysplastic syndromes” 2021 - present
2. Biostatistics Mentor, UMN CTSI pre-K award for “Targeting R-loop regulation in myelodysplastic syndromes” 2020

Service to the University/College/Department

University

University of Minnesota

1. External Member, Faculty Search Committee for the Department of Educational Psychology in CEHD 2021 - 2022
2. Member, Grant-in-Aid Review Committee 2017 - 2021
3. Reviewer, Clinical Protocol Review Committee, Masonic Cancer Center 2016 - Present

College

School of Public Health

1. Member, SPH Ad Hoc Review Committee 2020-2021
2. Member, MS Judging Committee, SPH Research Day 2017
3. Member, PhD Judging Committee, SPH Research Day 2016

Department

Division of Biostatistics

1. Member, Faculty Development Committee 2020 - Present
2. Member, Faculty Search Committee 2016 – 2017, 2021 – Present
3. Member, Admission Committee 2015 - Present
4. Member, Exam Committee 2018 - 2019