

ZHENKE WU
zhenkewu@umich.edu
1415 Washington Heights
4626 SPH-I (inside Suite 4600)
Ann Arbor, MI 48109-2029
Mobile: 410-336-9652
Work: 734-764-7067
Twitter: [@ZhenkeWu](https://twitter.com/ZhenkeWu)
zhenkewu.com

EDUCATION

- 2014 **Johns Hopkins Bloomberg School of Public Health (JHSPH)**, Baltimore, MD, USA
Ph.D. in Biostatistics
Thesis: *Statistical Methods for Individualized Health: Etiology, Diagnosis, and Intervention Evaluation*
Advisors: Scott Zeger and Constantine Frangakis
- 2009 **Fudan University**, Shanghai, China
B.Sc. in Mathematics. First Class Honors

RESEARCH FOCUS

My research is motivated by biomedical and public health problems and is centered on the design and application of statistical methods that inform health decisions made by individuals, or precision medicine. Towards this goal, I focus on two lines of methodological research: a) structured Bayesian latent variable models for clustering and disease subtyping, and b) study design and causal methods for evaluating sequential interventions that tailor to individuals changing circumstances such as in mobile health studies. I am committed to developing robust, scalable, and interpretable statistical methods to harness real-world, high-dimensional, dynamic data for individualized health. The methods and software developed so far have supported studies in diverse scientific fields including infectious disease epidemiology, autoimmune diseases, mental health, behavioral health, and cancer.

- Statistical** Hierarchical Bayesian models; Latent variable models; Nonparametric Bayes; Bayesian scalable computation; Causal inference; Reinforcement learning.
- Substantive** Precision medicine; Mobile health; Infectious diseases; Electronic health records/claims data; Healthcare policy; Clinical trials.

PROFESSIONAL EXPERIENCE

- 2016 - present **Assistant Professor**
Department of Biostatistics, University of Michigan (UMich)
Research Assistant Professor
Michigan Institute for Data Science (MIDAS), UMich
- 2017 - present **Faculty Associate**
Quantitative Methodology Program, Survey Research Center
Institute for Social Research (ISR), UMich
- 2016- present **Member**
Cancer Epidemiology and Prevention (CEP) research program, Rogel Cancer Center
- 2018 - present **Member**
Institute for Health Policy Innovation (IHPI), UMich

- 2014 - 2016 **Postdoctoral Fellow**
Hopkins individualized Health (*inHealth*), JHU
Department of Biostatistics, JHSPH
- 2014 - 2016 **Co-lead Statistician**
Pneumonia Etiology Research for Child Health (PERCH) funded by Gates Foundation,
International Vaccine Access Center (IVAC), JHSPH
Principal Investigator: Katherine O'Brien
- 2015 August **Visiting Scholar**
Combining Health Information, Computation and Statistics (CHICAS)
Lancaster University, Lancaster, England
- 2013 - 2014 **External Consultant**
Child Health Research Foundation (CHRF), Dhaka, Bangladesh; National Center for Im-
munization and Respiratory Diseases (NCIRD), The U.S. CDC
- 2010 - 2014 **Research Assistant**, IVAC, JHSPH
- 2008 **Research Scholar**
California NanoSystems Institute, and Department of Mechanical and Aerospace Engi-
neering, University of California, Los Angeles (UCLA)
- 2007 - 2009 **Research Scholar**
Center for Computational Systems Biology, Fudan University, Shanghai, China

HONORS AND AWARDS

UNIVERSITY OF MICHIGAN (UMich)

- 2021 Interdepartmental Research Seed Grant, February. Michigan Biostat/Stat Research Initiative.
- 2019 Winner of Shark Tank for Research Ideas in Data Science and Statistics (STRIDES), February 1.
Michigan Biostat/Stat Research Retreat.
- 2017 Travel Award for ENAR Junior Investigator Workshop, International Biometric Society. Wash-
ington, DC.

SELECTED AWARDS from DISSERTATION ADVISEES

(see the full list under each advisee's name in Section "Teaching")

- 2022 **Paper Travel Award**, International Society for Bayesian Analysis (ISBA), Montreal, Canada. (*Yao TH*)
- 2022 **Junior Research Paper Travel Award**, American Causal Inference Conference (ACIC), Berkeley, CA. (*Shi J*)
- 2019 **Poster Competition Award**, "Most Likely to Make an Impact in the Field", Annual Data Science Symposium, MIDAS. (*Chen I*)
- 2018 **Best Speed Oral Presentation**, Michigan Student Symposium for Interdisciplinary Statistical Sciences (MSSISS). (*NeCamp T*)

JOHNS HOPKINS UNIVERSITY

- 2016 New Researcher Conference Travel Award, Institute of Mathematical Statistics. Madison, WI.
- 2015 Top Performer for [2015 Prostate Cancer DREAM Challenge](#) 1b; As part of *Bmore Dream Team*. [Press Release](#).
- 2015 Scholarship for Summer Institute in Statistics and Modeling in Infectious Diseases. University of Washington, Seattle, WA
- 2015 NSF Big Data Travel award for Drawing Causal Inference from Big Data. National Academy of Sciences, Washington DC

| | |
|------------|---|
| 2015 | Induction into Alpha Chapter of <i>Delta Omega</i> Public Health Honor Society |
| 2015 | Induction into <i>Phi Beta Kappa</i> Honor Society |
| 2014 | First Place: Biostatistics Section of the Delta Omega Poster Competition |
| 2012, 2013 | Joseph Zeger Travel Award to ENAR and JSM |
| 2012 | June B. Culley Award , for outstanding achievement on school-wide oral exam paper |
| 2011-14 | Johns Hopkins Sommer Scholar |
| 2009-14 | Department of Biostatistics Graduate Fellowship |

UNIVERSITY OF CALIFORNIA, LOS ANGELES

2008 UCLA-China Cross Disciplinary Scholarship in Science and Technology (CSST)

FUDAN UNIVERSITY

| | |
|---------|---|
| 2009 | B.Sc. with First Class Honors |
| 2007-09 | Chun-Tsung Scholar , Chinese Undergraduate Research Endowment (CURE) Scholarship (3 in 600 Math Undergraduate Students) |
| 2008 | First Class National Scholarship, Ministry of Education, China (top 0.2%) |
| 2007 | Excellent Undergraduate Student, Government of Shanghai (top 0.2%) |
| 2006-07 | First Class People's Scholarship |
| 2006 | First Class Shi Dai Scholarship |

PUBLICATIONS *: *student advisee*

PUBLISHED PEER-REVIEWED ARTICLES

- 1 Chung S, Kontar R, **Wu Z** (2022). Weakly-supervised multi-output regression via correlated Gaussian processes. *INFORMS Journal on Data Science*. Accepted. [[arXiv](#)]
 • **Best student paper finalist, Quality Control and Reliability Engineering (QCRE), IISE annual conference, 2020**
- 2 Carlozzi NE, Sanders AM, Choi S, **Wu Z**, Miner JA, Lyden A, Graves C, Sen S (2022). A just-in-time-adaptive self-management intervention for caregivers of people with traumatic brain injury: protocol for a randomized clinical trial. *PLOS ONE*. Accepted.
- 3 Wagner AL, Lu Y, Glover B, **Wu Z**, Prosser LA (2022). Preferences for STI and cancer vaccines in the US and in China. *Value in Health*. Accepted.
- 4 Wagner AL, Porth J, **Wu Z**, Boulton ML, Finlay JM, and Kobayashi LC (2022). Vaccine hesitancy during the COVID-19 pandemic: A latent class analysis of middle-aged and older US adults. *Journal of Community Health*. In press. PMID:35079933. PMCID: PMC8788403. DOI:10.1007/s10900-022-01064-w.
- 5 Li M*, Park DE, Aziz M, Liu CM, Price LB, **Wu Z** (2021). Integrating sample similarity information into latent class analysis: a tree-structured shrinkage approach. *Biometrics*. In press. doi: 10.1111/biom.13580. [[Early View](#)][[bioRxiv](#)]
- 6 **Wu Z** and Chen I* (2021). Probabilistic cause-of-disease assignment using case-control diagnostic tests: a hierarchical Bayesian approach. *Statistics in Medicine* 40(4): 823-841. PMID: 33159360. doi: 10.1002/sim.8804.
- 7 Edupuganti S, Li M*, **Wu Z**, Basu T, Barnes G, Carrier M, Sood SL, Griggs JJ, Schaefer JK (2021). Factors associated with inferior vena cava filter placement and retrieval for patients with cancer-associated thrombosis. *The American Journal of Medicine*. In press. doi: 10.1016/j.amjmed.2021.11.006.

- 8 Carlozzi NE, Choi SW, **Wu Z**, Miner JA, Lyden AK, Graves C, Sander AM, Wang J*, Sen S (2021). An App-Based Just-in-Time Adaptive Self-management Intervention for Care Partners (CareQOL): Protocol for a Pilot Trial. *Journal of Medical Internet Research: Research Protocols* 10(12):e32842. doi: 10.2196/32842. PMID: 34889775.
- 9 Schaefer JK, Li M*, **Wu Z**, Basu T, Barnes G, Carrier M, Griggs JJ and Sood SL (2021). Clinical and sociodemographic factors associated with anticoagulant use for cancer associated thrombosis. *Journal of Thrombosis and Thrombolysis*. PMID: 33544284. doi: 10.1007/s11239-021-02392-9.
- 10 Boss J, Rix A, Chen YH, Narisetty NN, **Wu Z**, Ferguson K, Meeker J, Mukherjee B (2021). A hierarchical integrative grouped lasso (HIGLASSO) framework for analyzing environmental mixtures. *Environmetrics* 32(8), e2698. doi: 10.1002/env.2698.
- 11 Nahum-Shani I, Potter L, Lam C, Yap J, Moreno A, Stoffel R, **Wu Z**, Wan N, Dempsey W, Kumar S, Murphy S, Rehg J, Wetter D (2021). The mobile-assistance for regulating smoking (MARS) micro-randomized trial design protocol. *Contemporary Clinical Trials* 110: 106513. doi: 10.1016/j.cct.2021.106513.
- 12 **Wu Z**, Casciola-Rosen L, Rosen A, Zeger SL (2020). A Bayesian approach to restricted latent class models for scientifically-structured clustering of multivariate binary outcomes. *Biometrics* 77(4): 1431-1444. PMID: 33031597. doi: 10.1111/biom.13388.
- 13 Moreno A*, **Wu Z**, Yap J, Wetter D, Kumar S, Lam C, Nahum-Shani I, Dempsey W, Rehg J (2020). A robust functional EM algorithm for incomplete panel count data. *33rd Advances in Neural Information Processing Systems (NeurIPS 2020)*: 19828-19838. PMID: 34103881. PMCID: PMC8182728.
 - Top peer-reviewed machine learning conference (acceptance rate 20%).
- 14 Schaefer JK, Li M*, **Wu Z**, Basu T, Dorsch M, Barnes GD, Carrier M, Griggs JJ and Sood SL (2020). Medication adherence in cancer associated thrombosis: a comparison of LMWH to DOACs. *Journal of Thrombosis and Haemostasis* 19(1): 212-220. PMID: 33104289. doi:10.1111/jth.15153.
- 15 Xiang X, Xuan L, Halavanau A, Jia X, Sun Y, Lai P, **Wu Z** (2020). Modern senicide in the face of a pandemic: an examination of public discourse and sentiment about older adults and COVID-19 using machine learning. *The Journals of Gerontology: Series B*. PMID: 32785620 PMCID: PMC7454882. doi: 10.1093/geronb/gbaa128.
- 16 NeCamp T*, Sen S, Frank E, Walton M, Ionides E, Fang Y, Tewari A, **Wu Z** (2020). Assessing real-time moderation for developing adaptive mobile health interventions for medical interns: micro-randomized trial. *Journal of Medical Internet Research (JMIR)* 22(3): e15033. doi: 10.2196/15033. PMID: 32229469. PMCID: PMC7157494. Trial Registration: 2018 Intern Health Study Micro-randomized Trial (IHS), [NCT03972293](https://clinicaltrials.gov/ct2/show/study/NCT03972293).
- 17 Zeger SL, **Wu Z**, Coley Y, Fojo AT, Carter B, O'Brien K, Zandi P, Cooke M, Carey V, Crainiceanu C, Muschelli J, Gherman A, Mekosh J (2020). Using a Bayesian approach to predict patients Health and response to treatment. *Patient-Centered Outcomes Research Institute (PCORI)*. doi: 10.25302/09.2020.ME.140820318.
- 18 Kuang H, **Wu Z**, Fujiwara H, Whitesall S, Zajac C, Choi SW, Reddy P, Tewari M (2019). Computational analysis of continuous body temperature provides early discrimination of graft-versus-host disease in mice undergoing hematopoietic cell transplantation. *Blood Advances* 3(23): 3977-3981. PMID: 31809535. PMCID: PMC6963236. doi: 10.1182/bloodadvances.2019000613.
- 19 **Wu Z**, Casciola-Rosen L, Shah AA, Rosen A, Zeger SL (2019). Estimating auto-antibody signatures to detect autoimmune disease patient subsets. *Biostatistics* 20(1): 30-47. PMID: 29140482. PMCID: PMC6657300. doi:

10.1093/biostatistics/kxx061.

- 20 O'Brien KL, . . . , **Wu Z**, . . . , Zaman SMA (2019). Causes of severe pneumonia requiring hospital admission in children without HIV infection from Africa and Asia: the PERCH multi-country case-control study. *The Lancet* 394(10200): 757-779. PMID: 31257127. PMCID: PMC6727070. doi: 10.1016/S0140-6736(19)30721-4. [DataViz: <http://perchresults.org>][Press Release]
- 21 Fritsche L, Gruber SB, **Wu Z**, Schmidt E, Zawistowski M, Moser SE, Blanc VM, Brummet CM, Kheterpal S, Abecasis GR, Mukherjee B (2018). Association of polygenic risk scores for multiple cancers in a phenome-wide study: results from the Michigan Genomics Initiative. *American Journal of Human Genetics* 102(6): 1048-1061. PMID: 29779563. PMCID: PMC5992124. doi: 10.1016/j.ajhg.2018.04.001.
- 22 Xu G, **Wu Z** and Murphy SA (2018). Micro-randomized trial. In Wiley StatsRef: Statistics Reference Online (eds N. Balakrishnan, T. Colton, B. Everitt, W. Piegorisch, F. Ruggeri and J. L. Teugels). doi:10.1002/9781118445112.stat08050.
- 23 Deloria-Knoll M, Fu W, Shi Q, Prosperi C, **Wu Z**, Hammitt LL, Feikin DR, Baggett HC, Howie SRC, Scott JAG, Murdoch DR, Madhi SA, Thea DM, Brooks WA, Kotloff KL, Li M, Park DE, Lin W, Levine OS, O'Brien KL, Zeger SL (2017). Bayesian estimation of pneumonia etiology: epidemiologic considerations and applications to PERCH. *Clinical Infectious Diseases* 64(suppl 3): S213-S227. PMID: 28575370. PMCID: PMC5447849. doi: 10.1093/cid/cix144.
- 24 **Wu Z**, Deloria-Knoll M, and Zeger SL (2017). Nested partially-latent class models (npLCM) for dependent binary data; estimating disease etiology. *Biostatistics* 18(2): 200-213. PMID: 27549120. doi: 10.1093/biostatistics/kxw037.
- 25 **Wu Z** as part of the PERCH Study Group (2017). **16 articles** in *Clinical Infectious Diseases* 64(suppl 3). Link to the complete list: <https://goo.gl/3egRN1>.
- 26 Seyednasrollah F et al. - **Wu Z** in Prostate Cancer DREAM Challenge Community (2017). A DREAM challenge to build prediction models for short-term discontinuation of docetaxel in metastatic castration-resistant prostate cancer. *JCO Clinical Cancer Informatics* 1: 1-15. PMID: 30657384. PMCID: PMC6874023. doi: 10.1200/CCI.17.00018.
- 27 Guinney J et al. - **Wu Z** in PCC DREAM Consortium (2017). Prediction of overall survival for patients with metastatic castration-resistant prostate cancer: development of a prognostic model through a crowd-sourced challenge with open clinical trial data. *The Lancet Oncology* 18(1): 132-142. PMID: 27864015. PMCID: PMC5217180. doi: 10.1016/S1470-2045(16)30560-5.
- 28 **Wu Z**, Deloria-Knoll M, Hammitt LL, and Zeger SL, for the PERCH Core Team (2016). Partially latent class models (pLCM) for case-control studies of childhood pneumonia etiology. *Journal of the Royal Statistical Society: Series C (Applied Statistics)* 65(1): 97-114. PMID: 32327815. PMCID: PMC7169268. doi: 10.1111/rssc.12101.
- 29 Deng D, Du Y, Ji Z, Rao K, **Wu Z**, Zhu Y, Coley RY (2016). Predicting survival time for metastatic castration-resistant prostate cancer: an iterative imputation approach. *F1000Research* 2016, 5: 2672. PMID: 28299176. PMCID: PMC5321124. doi: 10.12688/f1000research.8628.1.
- 30 Frangakis CE, Qian T, **Wu Z**, Diaz I (2015). Deductive Derivation and Turing-computerization of semiparametric efficient estimation. *Biometrics* 71(4): 867-874. PMID: 26237182. PMCID: PMC4715631.

doi:10.1111/biom.12362. Discussion paper.

- 31 Frangakis CE, Qian T, **Wu Z**, Diaz I (2015). Rejoinder: Deductive derivation and Turing-computerization of semiparametric efficient Estimation. *Biometrics* 71(4): 881-883. PMID: 26229019. PMCID: PMC4715508. doi: 10.1111/biom.12365.
- 32 **Wu Z**, Frangakis CE, Louis TA, Scharfstein DO (2014). Estimating treatment effects in cluster randomized trials by calibrating covariate imbalances between clusters. *Biometrics* 70(4): 1014-1022. PMID: 25163648. PMCID: PMC4284983. doi: 10.1111/biom.12214.
- 33 Georgiades C, Geschwind J-F, Neil H, Hines-Peralta A, Liapi E, Hong K, **Wu Z**, Kamel I, Frangakis CE (2012). Lack of response after initial chemoembolization for hepatocellular carcinoma: does it predict failure of subsequent treatment? *Radiology* 265: 115-123. PMID: 22891361. PMCID: PMC4137783. doi: 10.1148/radiol.12112264.

SUBMITTED MANUSCRIPTS  indicates papers under revision.

- 34 **Wu Z**, Li RZ, Chen I*, Li M* (2022+). Tree-Informed Bayesian Multi-Source Domain Adaptation: Cross-population Probabilistic Cause-of-death Assignment using Verbal Autopsy. *Biostatistics*. Major revision. [[arXiv](#)][[R package](#)]
- 35 Shi J*, **Wu Z**, Dempsey W (2022+). Assessing time-varying causal effects in the presence of cluster-level treatment effect heterogeneity. *Biometrika*. Major revision. [[arXiv](#)].
 - **Winner, Junior Researcher Travel Grant, American Causal Inference Conference (ACIC), Berkeley, CA, 2022**
- 36 Cleary J, Fang Y, Sen S, **Wu Z** (2022+). A caveat to using wearable sensor data for COVID-19 detection: the role of behavioral change after receipt of test results. Revision submitted. *PLOS ONE*. [[medRxiv](#)]
- 37 Yao TH*, **Wu Z**, Bharath K, Li J, and Baladandayuthapani V (2022+). Probabilistic learning of treatment trees in cancer. *Annals of Applied Statistics*. Major revision. [[arXiv](#)][[R code](#)]
 - **Winner, ISBA Travel Award, Montreal, Canada, 2022**
- 38 Chen I*, Shi Q*, Zeger SL, **Wu Z** (2022+). **baker**: An R package for nested partially-latent class models. Submitted to *Journal of Statistical Software*. [[arXiv](#)][[R package](#)]
- 39 Li M^{‡,*}, Shi C[‡], **Wu Z**[†], Fryzlewicz P[†] (2022+). Reinforcement learning in possibly nonstationary environments. ([‡]: co-first authors; [†]: co-senior authors). Submitted to *Discussion Paper, Journal of Royal Statistical Society, Series B*. [[arXiv](#)][[Python code](#)]
- 40 Wang J*, Fang Y, Frank E, Walton MA, Burmester M, Tewari A, Dempsey W, NeCamp T, Sen S, **Wu Z** (2022+). Effectiveness of gamified competition in the context of mHealth intervention for medical interns: a micro-randomized trial. Submitted to *npj Digital Medicine*. [[medRxiv](#)][[R code](#)]
- 41 Chen I*, **Wu Z**, Harlow SD, Karvonen-Gutierrez CA, Hood M, Elliott M (2022+). Variance as a predictor of health outcomes: using subject-level trajectories and variability of sex hormones to predict body fat changes in peri- and post-menopausal women. Submitted to *Annals of Applied Statistics*.
- 42 Moreno A*, **Wu Z**, Nagesh S, Dempsey W, Rehg J (2022+). Kernel deformed exponential families for sparse continuous attention. Submitted to *NeurIPS2022*. [[arXiv](#)]

- 43 Li ZR, **Wu Z**, Chen I*, Clark S (2022+). Bayesian nested latent class models for cause-of-death assignment using verbal autopsies across heterogeneous domains. Submitted to *Annals of Applied Statistics*. [[arXiv](#)][[R package](#)].
- 44 Wang J, Du L, Zou C, **Wu Z** (2022+). Dynamic statistical inference in massive datastreams. Submitted to *Journal of Royal Statistical Society, Series B*. [[arXiv](#)]
- 45 Carlozzi NE, Choi SW, **Wu Z**, Troost J, Lyden AK, Miner JA, Graves C, Wang J*, Yan X, Sen S (2022+). An App-Based Just-in-Time-Adaptive Self-Management Intervention for Care Partners: The CareQOL Feasibility Pilot Study. Submitted to *Rehabilitation Psychology*.

TECHNICAL REPORTS

- 46 Bi Q, Hong C, Meng J, **Wu Z**, Zhou P, Ye C, Sun B, Kucirka LM, Azman AS, Wang T, Chen J, Wang Z, Liu L, Lessler J, Edwards JK, Ma T, Zhang G (2020). Characterization of clinical progression of COVID-19 patients in Shenzhen, China: an observational cohort study. [[medRxiv](#)]

SOFTWARE

| | |
|--------------------|---|
| baker: | Bayesian Analysis Kit for Etiology Research - Fitting and visualizing Bayesian nested partially-latent class models for estimating disease etiology CRAN: https://CRAN.R-project.org/package=baker Development version: https://github.com/zhenkewu/baker February 2022: "Top 40" New CRAN Packages |
| mpcr: | Robust covariate-calibrated estimation of treatment effect in matched-pair cluster randomized trials. https://github.com/zhenkewu/mpcr |
| spotgear: | Subset Profiling and Organizing Tools for Gel Electrophoresis Autoradiography in R https://github.com/zhenkewu/spotgear |
| rewind: | Reconstructing Etiology with Binary Decomposition https://github.com/zhenkewu/rewind |
| slamR: | Structured Latent Attribute Models in R https://github.com/zhenkewu/slamR |
| lotR: | Latent class analysis for observations over leaves in a tree https://github.com/zhenkewu/lotR |
| doubletree: | Nested latent class models with double-tree shrinkage https://github.com/zhenkewu/doubletree |
| LCVA: | Nested latent class model for Verbal Autopsy (maintainer: ZR Li) https://github.com/richardli/LCVA |
| CUSUM-RL: | Reinforcement Learning in Possibly Nonstationary Environments (CUSUM-RL) (maintainer: M Li); in Python https://github.com/limengbinggz/CUSUM-RL |

RESEARCH GRANT PARTICIPATION ◊ indicates grants funded as a Principal or Co-Principal Investigator.

ONGOING RESEARCH SUPPORT

- ◆ *Bayesian Hierarchical Models for Using Mobile Technology to Individualize Care in Mental Health (University of Michigan Precision Health Investigator Awards)*
Dates: 12/01/2018 – 12/01/2022.
Principal Investigator: Zhenke Wu
Responsibility: **Principal Investigator**
Total: \$300,000
- ◆ *Structured Latent Variable Methods for High-Dimensional EHR and Administrative Data (Propelling Original Data Science (PODS) Grants, Michigan Institute for Data Sciences)*
Dates: 06/10/2021 – 12/09/2022.
Principal Investigator: Zhenke Wu
Responsibility: **Principal Investigator**
Total: \$55,535
- ◆ *Transformers for Robust Causal Inference using Electronic Health Records and Claims Data (Joint Statistics and Biostatistics Research Award)*
Dates: 05/01/2021 – 8/31/2022.
Principal Investigators: Zhenke Wu and Jeffrey Regier
Responsibility: **Co-Principal Investigator**
Total: \$10,000
- *Improving Outcomes for Care Partners of Persons with Traumatic Brain Injury (NIH 2R01NR013658)*
Dates: 12/01/2019 – 11/31/2024
Principal Investigator: Noelle Carlozzi
Responsibility: Co-Investigator
- *Sinai-Emory Multi-institutional CIVIC (Collaborative Influenza Vaccine Innovation Centers) (NIH NIAID)*
Dates: 03/01/2020 – present
Principal Investigator: Aubree Gordon (UM site)
Responsibility: Co-Investigator
- *Mobile Technology to Identify Mechanisms Linking Genetic Variation and Depression (NIH 2R01MH101459)*
Dates: 07/01/2018 – 03/31/2023
Principal Investigator: Srijan Sen
Responsibility: Co-Investigator
- ◆ *Autoantibodies Define Scleroderma Subgroups with Distinct Relationships to Cancer (NIH R01AR073208)*
Dates: 04/01/2018 – 03/31/2023
Principal Investigators: Livia Casciola-Rosen and Ami Shah (Johns Hopkins)
Responsibility: **Subcontract Principal Investigator**
- *You-M: Personalizing Student Performance at the University of Michigan (UM Biosciences Initiative, BSI)*
Dates: 01/01/2021 – 12/31/2022
Principal Investigators: Kenneth Kozloff, Margit Burmeister, Pete Bodary
Responsibility: Co-Investigator
Total: \$779,349
- *Novel Use of mHealth Data to Identify States of Vulnerability and Receptivity to JITAIs (NIH U01CA229437)*
Dates: 04/01/2018 – 03/31/2023
Principal Investigators: Inbal Nahum-Shani (University of Michigan) and David Wetter (University of Utah)
Responsibility: Co-Investigator
- *THRIVE: Trajectories of Recovery after Intravenous propofol vs inhaled Volatile Anesthesia (PCORI Phased Large Awards for Comparative Effectiveness Research (PLACER), Cycle 3, 2020)*
Web: <https://thrivetrials.com/>

Dates: 1/1/2022 – 06/30/2028

Principal Investigators: Sachin Kheterpal (UM), Michael Avidan (WUSTL)

Responsibility: Co-Investigator

Total Direct Cost: \$ 25 million

- ◊ *Opportunities to Optimize the Receipt of Preventive Services among Children with Sickle Cell Anemia: A Mixed Methods Approach* (NIH AHRQ R01HS027785-01A1)

Dates: 09/01/2021-08/31/2025

Principal Investigator: Sarah Reeves (UM)

Responsibility: Co-Investigator

Total Cost: \$ 1.6 million

- ◊ *UtiliZing health Information for Meaningful impact in East Africa through Data Science (UZIMA-DS)* (NIH U54 TW012089)

Dates: 09/15/2021 – 06/30/2026

Principal Investigator: Akbar K. Waljee (UM Subcontract from Aga Khan University (AKU), Kenya)

Responsibility: Co-Investigator

Total Cost: \$ 6.5 million

- ◊ *Variance as a Predictor of Health Outcomes* (NIH 1R56AG06669301A1)

Dates: 09/30/2021 – 08/31/2022

Principal Investigator: Michael Elliott (UM)

Responsibility: Co-Investigator

Total Cost: \$ 374,998.

- ◊ *The effects of bundled payment on acute cardiovascular outcomes among older adults* (NIH R01)

Dates: 06/01/2022 – 05/31/2027

Principal Investigator: Andrew M Ryan (UM)

Responsibility: Co-Investigator

Total Cost: \$ 3.64 million

COMPLETED

- ◆ *Personalized Diagnosis for Disease Etiology Studies and Cognitive Assessment* (UM MCubed 3.0)

Dates: 09/01/2018 – 12/31/2020

Principal Investigators: Zhenke Wu, Gongjun Xu, Yang Chen

Responsibility: **Co-Principal Investigator**

Total: \$60,000

- ◆ *Structured Latent Variable Models for Multivariate Binary Data Observed over Taxonomies* (Shark Tank for Research Ideas in Data Science and Statistics, STRIDES, UM)

Dates: 03/01/2019 – 03/01/2020

Principal Investigators: Zhenke Wu and Gongjun Xu

Responsibility: **Co-Principal Investigator**

Total: \$15,000

- ◆ *Bayesian Hierarchical Models for Design and Analysis of Studies to Individualize Healthcare* (Funding for Methodological Research, Patient-Centered Outcomes Research Institute)

Dates: 09/01/2016 – 08/31/2018

Principal Investigator: Scott L. Zeger (Johns Hopkins)

Responsibility: **Principal Investigator on subcontract**

Subcontract Total: \$73,773

- ◆ *Pneumonia Etiology Research for Child Health* (PERCH) (Gates Foundation 305215)

Dates: 09/01/2016 – 12/31/2017

Principal Investigator: Katherine O'Brien (Johns Hopkins at the time of award)

Responsibility: **Principal Investigator on subcontract**

Subcontract Total: \$66,696

- *Mobile Technology and Data Analytics to Identify Real-Time Predictors of Caregiver Well-Being (Accelerating Synergy Award, UL1TR002240; Michigan Institute for Clinical Health Research (MICHR) and Institute for Healthcare Policy Innovation (IHPI))*
 Dates: 03/01/2020 – 02/28/2021
 Principal Investigator: Noelle Carlozzi
 Responsibility: Co-Investigator
 Total: \$100,000
- *Identifying Real-Time Data Predictors of Stress and Depression Using Mobile Technology (Michigan Institute for Data Science; Funding for methodological research in the area of health sciences)*
 Dates: 03/01/2017 – 02/28/2019
 Principal Investigators: Srijan Sen
 Responsibility: Co-Investigator
 Total: \$521,051
- *Prostate Cancer DREAM Challenge Educational Program Award (Project Data Sphere, LLC (PDS) by AstraZeneca)*
 Dates: 10/01/2015 – 03/31/2016
 Principal Investigator: Yates Coley
 Responsibility: Co-Investigator
 Total: \$2,307.69

PRESENTATIONS upcoming; keynote

SCIENTIFIC MEETINGS *invited, #posters

- 1 *December 2022, The 12th ICSA International Conference, Chinese University of Hong Kong, Hong Kong.
- 2 *August 2022, Joint Statistical Meetings, Washington DC
- 3 *June 2022, World Meeting of the International Society for Bayesian Analysis (ISBA), Montreal, Canada
- 4 *June 2022, International Chinese Statistical Association (ICSA) Applied Statistics Symposium, Gainesville, FL
- 5 *June 2022, EcoSta Conference, Kyoto, Japan
- 6 *August 2021, Joint Statistical Meetings, Seattle WA (virtual)
- 7 *July 2021, World Meeting of the International Society for Bayesian Analysis (ISBA) (virtual)
- 8 *June 2021, 4th International Conference on Econometrics and Statistics (EcoSta 2021), HKUST, Hong Kong (virtual).
- 9 *December 2020, ICSA Applied Statistics Symposium, Houston, TX (virtual)
- 10 *August 2020, Joint Statistical Meeting. August 1-6. Philadelphia, PA (virtual)
- 11 *December 2019, International Indian Statistical Association Conference. IIT Bombay, Mumbai, India.
- 12 *December 2019, 11th International Chinese Statistical Association (ICSA) International Conference. Zhejiang University, Hangzhou, China.
- 13 *July 2019, Joint Statistical Meeting, Denver, Colorado.
- 14 *July 2019, International Chinese Statistical Association (ICSA) China Conference. Naikai University, Tianjin, China.
- 15 *June 2019, 3rd International Conference on Econometrics and Statistics (EcoStat 2019). National Chung Hsing University (NCHU), Taichung, Taiwan.
- 16 *June 2019, Applied International Chinese Statistical Association (ICSA) Statistics Symposium. Raleigh, North Carolina.
- 17 #October 2018, MIDAS Annual Symposium, University of Michigan, Ann Arbor, MI.

- 18 July 2018, Joint Statistical Meeting. Vancouver, Canada.
- 19 #July 2018, 25th Model-Based Clustering Workshop. Ann Arbor, MI.
- 20 *June 2018, 2nd International Conference on Econometrics and Statistics (EcoStat 2018). The City University of Hong Kong.
- 21 *June 2018, Applied Statistics Symposium. International Chinese Statistical Association (ICSA). New Brunswick, NJ, USA.
- 22 March 2018, Eastern North American Regional meeting of the International Biometric Society. Atlanta, GA.
- 23  *July 2017, International Biometric Society, Brazilian Regional Meeting. Federal University of Lavras (UFLA), Lavras, MG, Brazil. **Plenary Talk.**
- 24 March 2017, Eastern North American Regional meeting of the International Biometric Society. Washington, DC.
- 25 August 2016, Joint Statistical Meetings. Chicago, IL.
- 26 #July 2016, 18th Meeting of New Researcher Conference in Statistics and Probability. University of Wisconsin, Madison.
- 27 March 2016, Eastern North American Regional meeting of the International Biometric Society. Austin, TX.
- 28 March 2015, Eastern North American Regional meeting of the International Biometric Society. Miami, FL.
- 29 August 2014, Joint Statistical Meetings. Boston, MA.
- 30 March 2014, Eastern North American Regional meeting of the International Biometric Society. Baltimore, MD.
- 31 August 2013, Joint Statistical Meeting. Montreal, QC, Canada.
- 32 #March 2013, Eastern North American Regional meeting of the International Biometric Society. Orlando, FL.

INVITED SEMINARS

- 1 April 2022, Department of Biostatistics and Bioinformatics, Duke University, Durham, NC (virtual)
- 2 March 2021, University of Illinois, Chicago, Section of Biostatistics, School of Public Health (virtual)
- 3 November 2020, Johns Hopkins Department of Biostatistics Seminar (virtual)
- 4 March 2020, Mental Health Data Science, Department of Psychiatry, Columbia University.
- 5 November 2019, Department of Statistics and Data Science (SDS), University of Texas, Austin, TX.
- 6 September 2019, Department of Statistics, Texas A&M University, College Station, TX.
- 7 February 2019, *Statistical Methods for Developing Personalized Mobile Health Interventions*, National University of Singapore.
- 8 December 2017, Statistical Reinforcement Learning Lab. Department of Statistics, Harvard University, Cambridge, MA.
- 9 February 2016, Department of Biostatistics, University of Michigan, Ann Arbor, MI.
- 10 February 2016, Department of Biostatistics, University of Massachusetts, Amherst. Amherst, MA.
- 11 February 2016, Biostatistics Research Branch, Division of Clinical Research, National Institute of Allergy and Infectious Diseases, NIH. Rockville, MD.
- 12 November 2015, Biostatistics Grand Rounds, Johns Hopkins Bloomberg School of Public Health. Baltimore, MD.
- 13 August 2015, CHICAS, Medical School, Lancaster University. Lancaster, England.
- 14 February 2015, Department of Biostatistics, Brown University. Providence, RI.

INTERNAL PRESENTATIONS **invited*

- 1 *March 2022, Propelling Original Data Science (PODS) Grants Showcase, Michigan Institute of Data Science.
- 2 *October 2021, Brown Bag Seminar Series, Biostatistics, UMich.
- 3 *January 2021, Michigan Biostat DEI Seminar (virtual)
- 4 *November 2020, Brown Bag Seminar Series, Biostatistics, UMich. (virtual)
- 5 *September 2020, Environmental Statistics Discussion. Integrated Health Science Core, Michigan Center on Lifestage Environmental Exposures and Disease (M-LEEaD). (virtual)
- 6 *June 2020, Michigan Institute for Data Science (MIDAS) COVID-19 Special Seminar Series (with Veera Baladandayuthapani; virtual; [recording](#))
- 7 *July 2019, **Plenary talk**, Symposium for Big Data Summer Institute, Big Data Summer Institute, University of Michigan, Ann Arbor, MI.
- 8 *May 2018, Cancer Control and Population Sciences (CCPS), University of Michigan Cancer Center.
- 9 *May 2018, Health Sciences Challenge Symposium. Michigan Institute for Data Sciences, University of Michigan.
- 10 *April 2018, Michigan Student Symposium for Interdisciplinary Statistical Sciences (MSSISS) University of Michigan. Junior Faculty **Keynote Speaker**.

OTHER MEETINGS AND EVENTS **invited; #posters*

- 1 *July 2017, Rheumatology Data Science Meeting. Johns Hopkins School of Medicine, Bayview Medical Center.
- 2 *November 2016, Interdisciplinary Group Seminar (IGS), Center for Statistical Genetics, University of Michigan. Ann Arbor, MI
- 3 *November 2016, Annual School of Public Health Excellence in Research Symposium, University of Michigan. Ann Arbor, MI.
- 4 *December 2014, Pneumonia Etiology Research for Child Health (PERCH) Executive Committee Meeting. London, England.
- 5 #February 2014, Delta Omega Scientific Poster Competition. Baltimore, MD.
- 6 *December 2013, Pneumonia Etiology Research for Child Health (PERCH) Executive Committee Meeting. London, England.
- 7 *November 2013, US Centers for Disease Control and Child Health Research Foundation: Aetiology of Neonatal Infection in South Asia (ANISA) Project Committee Meeting. San Diego, CA.
- 8 *December 2012, Department of Biostatistics. Johns Hopkins Biostatistics Causal Inference Working Group. Baltimore, MD.

SERVICE

INSTITUTIONAL

Department of Biostatistics, UMich

| | |
|---------------------|---|
| 2017,2023 | Faculty Search |
| 2016,2023 | Admissions |
| 2018,2020,2022,2023 | Computing, Social Media and Website Reform |
| 2017-2020 | Seminars/Brown Bag |
| 2019-2021 | Student Awards |
| 2018 | Rod Little Distinguished Lectureship Organizing Committee |
| 2018 | Faculty Speaker on Prospective Student Day, November 10 |
| 2017 | Qualifying Exam Modernization Proposal |

School of Public Health, UMich

| | |
|--------------|---------------------------------------|
| 2019-present | Junior Faculty Advisory Board (J-FAB) |
| 2018 | Health Informatics |

Michigan Institute of Data Science, UMich

| | |
|------------|---|
| 2019, 2020 | Program Committee, Annual MIDAS Symposium, November |
| 2016 | Poster Competition Judge, Michigan Institute of Data Science Symposium, November 15 |

PROFESSIONAL AT LARGE

| | |
|-----------------------|--|
| Local Committee Chair | International Chinese Statistical Association (ICSA) Applied Statistics Symposium (Ann Arbor, MI; upcoming in 2023) |
| Committee Member | <p>International Conference on Health Policy Statistics (ICHPS)</p> <ul style="list-style-type: none"> - Student Committee (2023) <p>Eastern North American Regional Meeting of the International Biometric Society</p> <ul style="list-style-type: none"> - Paper Award Committee (2019-2021) - Regional Advisory Board (2018-2020) - Educational Advisory Committee (2018; Atlanta, GA) <p>American Statistical Association</p> <ul style="list-style-type: none"> - Paper Award Committee, Statistics in Epidemiology (2021) - David P. Byar Early Career Award Committee, Biometrics Section (2020) - Paper Award Committee, Section on Bayesian Statistical Science (2020) - Paper Award Committee, Health Policy Statistics Section (2020) - Paper Award Committee, Statistical Learning and Data Science (2020) <p>International Chinese Statistical Association (ICSA)</p> <ul style="list-style-type: none"> - Student paper competition (2021) |
| Program Committee | <i>AI for Behavior Change, The AAAI-21 Workshop on AI For Behavior Change, Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI-21) (February 8-9, 2021; Virtual)</i> |

| | |
|-------------------|--|
| Session Organizer | <ul style="list-style-type: none"> - <i>Modern Tree-integrative Statistical Methods for Biomedical and Public Health Studies</i>, ENAR (March 27-30, 2022; Houston, TX) - <i>Recent Advances in Latent Variable Modeling for Modern Scientific Studies</i>, 12th International Conference of International Chinese Statistical Association (December 18-22, 2022) - <i>Statistical Methods for Improving Inferences and Decision-Making in Population Health</i>, Joint Statistical Meeting (July 27 - August 1, 2019; Denver, CO) |
| Session Chair | <ul style="list-style-type: none"> - <i>Statistical Methods for Discovering Latent Structures in High-Dimensional and Complex Data</i>, 2022 JSM (August) - <i>Recent Statistical Advances for Mobile Health</i>, 2021 JSM (August 11th; Virtual) - <i>Modern Graphical Modeling of Complex Biomedical Systems</i>, 2020 JSM (August 6; Virtual) - <i>New Weighting Methods for Causal Inference</i>, 2020 ENAR (March 24; Virtual) - <i>Towards a Learning-Health System: Methods and Strategies for Data-Driven Healthcare</i>, Joint Statistical Meetings (July 29 - August 3, 2017; Baltimore, MD) |
| Poster Judge | <ul style="list-style-type: none"> - Statistical Learning and Data Science (SLDS), Joint Statistical Meeting (July 30, 2019, Denver, CO) - International Indian Statistical Association (IISA) Conference, 2019, Mumbai, India. |
| Co-Founder | Chinese Public Health Forum (CPHF) at Johns Hopkins , 2010-12 |
| Hosted Attendee | <ul style="list-style-type: none"> - Use of Wearable and Implantable Devices in Health Research, BIRS Workshop, Banff, AB, Canada. Feb 23-28, 2020 - U-M Ideas Lab: Predicting Human Performance. Biosciences Initiative, University of Michigan. Oct 13-15, 2019 - Statistical Methods for Developing Personalized Mobile Health Interventions, National University of Singapore, Feb 4 - March 1, 2019 - Program on Statistical, Mathematical, and Computational Methods for Precision Medicine (PMED), SAMSI, Raleigh, Durham, NC. August 13-17, 2018. - Methods Summit. PCORI Annual Meeting: Building a Patient-Centered Research Community. Arlington VA. October 6-8, 2015 |
| Panelist | Foundations of Data Science. Fifth Bayesian, Fiducial and Frequentist Conference (BFF5) (May 6-9, 2018; Ann Arbor, MI) |
| Referee | <p><i>The numbers in parentheses indicate the number of manuscripts reviewed or currently reviewing, excluding revisions.</i></p> <p>Journals: <i>Annals of Applied Statistics</i> (2), <i>Biometrics</i> (8), <i>Biostatistics</i> (1), <i>Journal of Business and Economic Statistics</i> (1), <i>Statistics in Medicine</i> (11), <i>Annals of Statistics</i> (1), <i>Computational Statistics and Data Analysis</i> (2), <i>Epidemiology</i> (1), <i>Pharmaceutical Statistics</i> (1), <i>PLOS One</i> (1), <i>Statistical Science</i> (1), <i>Sankhya (The Indian Journal of Statistics)</i> (1), <i>Technometrics</i> (1), <i>Nature Partner Journal (npj) Digital Medicine</i> (1), <i>International Journal of Epidemiology</i> (1), <i>Journal of American Statistical Association A&CS</i> (1), <i>Journal of Royal Statistical Society, Series A</i> (1), <i>Ophthalmic Epidemiology</i> (1), <i>Psychiatric Services</i> (1), <i>Journal of Educational and Behavioral Statistics</i> (1), <i>Journal of American Medical Association (JAMA) Oncology</i> (1)</p> <p>Conferences: <i>International Conference on Machine Learning 2022</i> (2); <i>NeurIPS 2022</i></p> <p>Workshops: <i>AI for Behavior Change</i>, <i>AAAI Workshop</i>, 2021(2), 2022(2)</p> <p>Final Reports: <i>Patient-Centered Outcomes Research Institute (PCORI)</i> (1)</p> |

Grants: - 2022 MIDAS PODS Grant

- 2021 Michigan Medicine - Peking University Health Science Center Joint Institute for Translational Clinical Research
- 2019, 2021 UM Precision Health Investigator Awards
- 2019 MIDAS Propelling Original Data Science (PODS) Grants
- 2017, 2018 Michigan Institute for Clinical and Health Research (MICHR) Pilot Grant
- 2016 Johns Hopkins Individualized Health Initiative Request for Proposal (RFP)
- 2016 Methodology Research Grant, Medical Research Council, United Kingdom

Advisory Board

openVA (<https://openva.net/>)

- The openVA team develops and maintains various tools, algorithms, and software related to Verbal Autopsy.

Professional Society

- American Statistical Association (ASA)
- Eastern North American Region (ENAR), International Biometric Society
- International Society for Bayesian Analysis (ISBA)
- International Chinese Statistical Association (ICSA)

TEACHING AND MENTORING

PHD DISSERTATION ADVISEES (Chair or Co-chair)

**expected graduation*

- 2024* Jitao Wang (Chair)
Topic: *Causal Inference Methods for Micro-randomized Trials with Dynamic Networks*
• **Outstanding First Year Masters Student**
- 2024* Jieru (Hera) Shi (Co-Chair with Walter Dempsey)
Topic: *Statistical Methods for Assessing Time-varying Causal Effects with Clustered Outcomes*
• **Winner, Junior Researcher Travel Grant**, American Causal Inference Conference (ACIC), Berkeley, CA, 2022
- 2023* Irena Chen (Co-Chair with Michael Elliott)
Thesis: *Bayesian Methods for Variance as a Predictor for Health*
• **Poster Competition Award**, “Most Likely to Make an Impact in the Field”, MIDAS Annual Data Science Symposium, November 15, 2019
- 2023* Mengbing Li (Chair)
Topic: *Structured Latent Variable Models for Individualizing Healthcare*
• **Best Doctoral Qualifying Exam Award**, 2019
• **Outstanding Biostatistics Graduate Student Instructor Award**, 2018
- 2022* Tsung-Hung Yao (Co-Chair with Veera Baladandayuthapani)
Topic: *Bayesian Nonparametric and Regularized Methods for Structural Learning of Graphs*
• **ISBA Travel Award**, Montreal, Canada, 2022
• **Outstanding Biostatistics Graduate Student Instructor Award**, 2019
- 2022* Nicole Wakim (Co-Chair with Thomas Braun)
Topic: *Missing Data Methods for Correlating Digital Biomarkers and Longitudinal Outcomes*
• **Departmental Citizenship Outreach Award, Honorable Mention**, 2021
- 2017-2019 [Tim NeCamp](#), PhD (Co-Chair with Edward Ionides).
Thesis Title: *Design and Analysis of Sequential Randomized Trials with Applications to Mental Health and Online Education*.
Currently Co-Founder of Data Bloom
• **NSF Graduate Student Fellowship**
• **2018 Rackham Outstanding Graduate Student Instructor Award**
• **Best Speed Oral Presentation at MSSISS 2018**: “Predicting mood using multivariate mobile sensor data streams for medical interns”

CLASSROOM INSTRUCTION (Principal Instructor)

University of Michigan, Ann Arbor

- 1 BIostat 653 Theory and Application of Longitudinal Analysis (2022 Fall). 50 Master/Doctoral Students.
- BIostat 522 Biostatistical Analysis for Health-Related Studies (2022 Winter). 158 Master/MPH/Medical Non-Biostat Students (Epidemiology, Nutrition, Medicine).
- BIostat 653 Theory and Application of Longitudinal Analysis (2021 Fall). 40 Master/Doctoral Students.
- BIostat 653 Theory and Application of Longitudinal Analysis (2020 Fall). 50 Master/Doctoral Students.
- BIostat 653 Applied Stats III: Longitudinal Analysis (2019 Fall). 67 Master/Doctoral Biostat Students
- BIostat 653 Applied Stats III: Longitudinal Analysis (2018 Fall). 47 Master/Doctoral Biostat Students
- BIostat 523 Statistical Methods in Epidemiology (2017 Fall). 84 Master/Doctoral Epidemiology Students
- BIostat 830 Advanced Topics in Biostatistics: [Statistical and Computational Methods for Learning through Graphical Models](#) (2016 Fall). 11 Doctoral Students

CLASSROOM INSTRUCTION (Invited Guest Lecturer)

University of Michigan, Ann Arbor

- Causal Inference. Big Data Summer Institute, Department of Biostatistics (June 2018, 2019)
- Network. Big Data Summer Institute, Department of Biostatistics (June 22, 2017)
- Cancer Biostatistics Seminar Course (BIostat 803), Department of Biostatistics, (Instructor: Jeremy M G Taylor; October 28, 2016)
Johns Hopkins Bloomberg School of Public Health
- Data Visualization for Individualized Health via `ggplot2`. Public Health Studies, Undergraduate Seminar Course (Instructor: Yates Coley; March 1, 2016)
- 140.653 Methods in Biostatistics (Master-level) (Instructor: Scott Zeger; February 11, 2016)

OTHER TEACHING

Short Courses

- Statistical Methods for Individualizing Health (co-taught with Scott Zeger), Mayo Clinic, Department of Health Sciences Research, Rochester, MN (November 17, 2014)
Workshop
- [Big Data Summer Institute](#), NIH BD2K R25 (PI: Mukherjee). Undergraduate Projects on Statistical Methods for **Electronic Health Records** (data: Michigan Genomics Initiative). Department of Biostatistics, University of Michigan. (2017 Summer)

TEACHING ASSISTANT

- 140.656 Multilevel Statistical Models, Graduate, Elizabeth Colantuoni (2014)
- 140.655, Analysis of Longitudinal Data, Graduate, Elizabeth Colantuoni (2014)
- 280.346 Biostatistics in Public Health, Undergraduate, Scott Zeger (2013)
- Case-based Introduction to Biostatistics, www.coursera.org, Scott Zeger, ~ 23, 000 global enrollments (2013)
- 140.762 Bayesian Methods II, Graduate, Gary Rosner (2013)
- 140.763 Bayesian Methods I, Graduate, Gary Rosner (2013)
- 280.346 Biostatistics in Public Health, Undergraduate, Scott Zeger (2012)
- 550.621 Advanced Probability Theory II, Graduate, James Fill (2012)
- 550.620 Advanced Probability Theory I, Graduate, James Fill (2011)
- 140.646-649 Essentials of Probability and Statistical Inference (I, II, III, IV), Graduate, Michael Rosenblum and Charles Rohde (2010-2011)

GRADUATE STUDENT RESEARCH ASSISTANTSHIP

Funded and Supervised

Abigail Loe (2022 January - present)

Jitao Wang (2020 September - present)

Irena Chen (2019 January - present)

Nicole Wakim (2021 May - August)

Zhongyuan Lyu (2018 May - August)

Mengbing Li (2018 January - present)

Tian Xie (2020 January - present)

Jieru (Hera) Shi (2020 May - August)

Zezhi Zhang (2017 May - August)

Supervised

Chen Chen (2021 November - 2022 August)

Mingyan Yu (2022 May - present)

DOCTORAL DISSERTATION COMMITTEE (Non-Chair Role)

| | |
|--------------|-----------------------------------|
| 2022 | Chenchen Ma (Stat) |
| 2022-present | Wade Sanders (Epidemiology) |
| 2021-present | Charlotte Mann (Stat) |
| 2021-present | Andrea Sosa Moreno (Epidemiology) |
| 2021-present | Aaron Frutos (Epidemiology) |
| 2021-present | Yizhuo Wang (Biostat) |
| 2020-2022 | Youfei Yu (Biostat) |
| 2020-2021 | Yiwan Zhou (Biostat) |
| 2020-present | Kuan-Han Wu (Bioinformatics) |
| 2020-present | Chengcheng Li (Stat) |
| 2020-present | Xubo Yue (IOE) |
| 2020-present | Seokhyun Chung (IOE) |
| 2021 | Edward Wu (Stat) |
| 2020 | Nina Zhou (Biostat) |
| 2020 | Brook Luers (Stat) |
| 2020 | Aritra Guha (Stat) |
| 2018-2020 | April Cho (Stat) |
| 2018-2020 | Yuqi Gu (Stat) |
| 2019-2020 | Yingchao Zhong (Biostat) |
| 2019-2020 | Lan Luo (Biostat) |
| 2019-2020 | Yingchao Zhong (Biostat) |
| 2019 | Ruofei Zhao (Stat) |
| 2018 | Jun Guo (Stat) |

MASTER'S DISSERTATION COMMITTEE (Non-Chair Role)

| | |
|--------------|--|
| 2022-present | Xiaochun Gai (Nutritional Sciences), Zhichun (Irene) Xu (Nutritional Sciences) |
|--------------|--|

PARTICIPATION IN RESEARCH

| | |
|-------------|---|
| 2020 Fall | Ting Gong (MS, Data Science) |
| 2020 Winter | Jiayuan Dong (Accelerated MS, Applied Statistics) |
| 2018 Fall | Jing Chu (MS, Applied Statistics) |
| 2018 Summer | Jitao Wang (Biostat) |

ACADEMIC ADVISOR

| | |
|-----------|---|
| 2021-2022 | Runye Shi (MS) |
| 2020-2021 | Yajing Li (MS), Qiyuan Shi (MS), Jitao Wang (MS), Tian Xie (MS), Yuliang Xu (PhD) |
| 2019-2020 | Yajing Li (MS), Ruohan Liao (MS), Tian Xie (MS), Zheng Xu (PhD) |

GRADUATE STUDENT INSTRUCTOR (GSI)

| | |
|-------------------------|--|
| BIOSTAT523, Fall2017 | Pedro Orozco del Pino (<i>Outstanding GSI Award</i>), Chen Liang |
| BIOSTAT653, Fall2018 | Nina Zhou |
| BIOSTAT653, Fall 2019 | Zheng Xu |
| BIOSTAT653, Fall 2020 | Yuliang Xu |
| BIOSTAT653, Fall 2021 | Qingzhi Liu |
| BIOSTAT522, Winter 2022 | Karen Angulo Diaz, Andre Guerra, Sabir Meah, Jenna Bedrava |