YAJUAN SI

Contact Information

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Education

Duke University, Department of Statistical Science, Durham, North Carolina, USA
Ph.D., Statistical Science, *2012*; **M.S.**, Statistical Science *2011*
Advisor: Jerome P. Reiter
Thesis: Nonparametric Bayesian Methods for Multiple Imputation of Large Scale Incomplete Categorical Data in Panel Studies

Renmin University of China, School of Statistics, Beijing, P.R.China
B.S., Statistics & Actuarial Science, *2008*

The University of Hong Kong, Department of Statistics & **Actuarial Science**, Hong Kong
Exchange Student, Statistics & Actuarial Science, *2007*

Professional Experience

University of Michigan, Ann Arbor, MI
Research Associate Professor (with tenure)   *Sept 2022 -*
Survey Methodology Program, Survey Research Center, Institute for Social Research & Department of Biostatistics, School of Public Health
Intrim Associate Director, Michigan Program in Survey and Data Science   *Aug 2025 -*
Research Assistant Professor   *Sept 2017 - Aug 2022*
Member, Institute for Healthcare Policy & Innovation   *Jan 2018 -*
Affiliate, Population Dynamics and Health Program   *May 2019 -*
Faculty Associate, Population Studies Center   *May 2019 -*
Affiliate, Michigan Center on the Demography of Aging   *May 2019 -*
Affiliate, Michigan Institute for Data Science   *Nov 2019 -*

University of Maryland, College Park, MD
Teaching faculty, Joint Program in Survey Methodology   *Sept 2019 -*

National Institute of Statistical Sciences
Research Fellow   *Feb 2020 -*

University of Wisconsin-Madison, Madison, WI
Visiting Assistant Professor, Department of Population Health Sciences   *Sept 2017 - Sept 2022*
Assistant Professor (tenure track), Department of Biostatistics & Medical Informatics and Department of Population Health Sciences   *Aug 2014 - Aug 2017*
Affiliate, University of Wisconsin Survey Center   *Feb 2015 - Aug 2017*
Affiliate, Center for Demography and Ecology   *Oct 2015 - Aug 2017*

Affiliate, Department of Statistics   *Nov 2015 - Aug 2017*

Columbia University, New York, NY

Postdoctoral Research Scholar (*Supervisor:* Andrew Gelman)   *Aug 2012 - Jul 2014*

Educational Testing Service, Princeton, NJ

Summer Intern (*Mentors:* Matthias Von Davier and Xueli Xu)   *Jun 2010 - Aug 2010*

Duke University, Durham, NC

Research Assistant, Department of Statistical Science   *Jan 2009 - July 2012*

Awards and Honors	- Recognition for outstanding mentoring, Survey Research Center, University of Michigan, 2025 - Elected member of the International Statistical Institute (ISI), 2024 - Discussion panelist in the HEAL/National Institute on Drug Abuse Workshop on Substance Use Disorder Recovery within the Socioenvironmental Context, 2024 - Protocol review board member of CTN-0146 Adolescent Post-operative opioid EXposure (APEX) for the Clinical Trials Network in the National Institute on Drug Abuse, 2024 - Nomination of the ACUM Outstanding Advisor Award, University of Michigan, 2023 - Panel member on An Integrated System of Household Income, Wealth, and Consumption Data and Statistics to Inform Policy and Research, National Academies of Sciences, Engineering, and Medicine, Committee on National Statistics, 2022 - Population Dynamics and Health Program's New Investigator Intensive Mentoring Program, University of Michigan, 2018 - Performance Bonus Fund, University of Wisconsin-Madison, 2017 - Women in Statistics and Data Science Conference-Travel Award, 2016 - The Institute of Mathematical Statistics (IMS) Junior Researcher Conference-Travel Award, 2015 - The annual meeting of the International Biometric Society-Eastern North American Region (ENAR) Junior Investigator Workshop-Travel Award, 2015 - Frontiers of Hierarchical Modeling in Observational Studies, Complex Surveys and Big Data-Travel Award funded by NSF, 2014 - OBayes 2013 Meetings: Celebrating 250 Years of Bayes-Travel Award, 2013 - International Workshop on Objective Bayes Methodology-Travel Award, 2011

Funded Grants   **Principal Investigator (External Funding)**

1. Stavros Niarchos Foundation/Child Mind Institute   09/01/2024–12/31/2026   2.40 Calendar
Total Award Amount: $209,056
Child Mind Institute: Survey Methodology

2. NSF/MMS SES 2217456   08/15/2022–07/31/2025   0.83 Calendar
Total Award Amount: $62,973
Enhancing Synthetic Data Techniques for Practical Applications
UM Co-PI (PI: J Reiter at Duke University)

3. NIH/NIMHD U01MD017867   04/01/2022–12/31/2025   3.00 Calendar

Total Award Amount: $2,305,764

Statistical Adjustments of Sample Representation in Community-level Estimates of COVID-19 Transmission and Immunity

4. NIH/SBECCC   03/01/2022–02/28/2023   0.61 Calendar

Total Award Amount: $15,000

Examination of Health Disparity and its Social Determinants for Vulnerable Populations of COVID Transmission

5. NIH/NIDA U24DA055325   10/01/2021–09/30/2026   1.20 Calendar

Total Award Amount: $143,731

The Healthy Brain and Child Development National Consortium Administrative Core

UM Subcontract PI (PI: C Chambers at University of California, San Diego)

6. NIH/NICHD R21HD105204   05/01/2021–04/30/2024   2.40 Calendar

Total Award Amount: $400,166

Novel Approaches to Adjusting for Population Heterogeneity and Representation in Neuroimaging Studies

7. NISS/NCES   01/01/2020–06/30/2025   2.40 Calendar

Total Award Amount: $298,450

Nonresponse Bias Adjustment for Large-scale Education Surveys

8. USDA   10/01/2018–09/30/2023   0.36 Calendar

Total Award Amount: $74,950

Methodological Research on Mobile Technology in the Collection of Household Food Expenditure Data

9. University of Wisconsin Survey Center   09/01/2018-08/31/2020   1.20 Calendar

Total Award Amount: $34,904

Academic Support Services Agreement: MIDUS Early Warning Project (U19 funded by NIA)

10. NIH/NIDDK R21DK110688   08/01/2016–07/31/2019   2.40 Calendar

Total Award Amount: $227,775

Profiling Missing Data in Electronic Health Records for Diabetes Care Research

11. NIH/NIDDK R01DK108073   04/01/2016–03/31/2021   0.96 Calendar

Total Award Amount: $16,969

Statistical Methods for Healthcare in Complex Patients with Diabetes

UM Subcontract PI (PI: Y Zhao at Fred Hutchinson Cancer Research Center)

12. NSF/MMS SES 1760133   10/01/2015–09/30/2020   1.92 Calendar

Total Award Amount: $442,195

Multilevel Regression and Poststratification: A Unified Framework for Survey Weighted Inference

Principal Investigator (Internal Funding)

13. NIH/NIA/MiCDA   07/01/2020–06/30/2025   1.20 Calendar
Total Award Amount: $3,773,851 (to MiCDA)
Confidentiality Protection after Record Linkage: Laying the Groundwork for Synthetic Record Linkage

14. UM/MIDAS   05/15/2020–12/31/2020   1.34 Calendar
Total Award Amount: $29,968
Estimating County-level Age Group Contact Rates from Time Use Data

15. UM/MIDAS   01/01/2020–03/31/2023   0.87 Calendar
Total Award Amount: $90,000
Regularized Regression and Poststratification: Blending Data Science and Survey Methodology to Increase the Reproducibility of Population Genetics Research

16. UM/PSC   05/01/2018-05/01/2019   1.00 Calendar
Population Dynamics and Health Program's New Investigator Intensive Mentoring Program

Co-Investigator (External Funding)

17. USDA   09/28/2023–09/27/2026   0.12 Calendar
Total Award Amount: $89,000
Statistical and Methodological Research in Support of FoodAPS-2 Survey Development (PI: B West)

18. NIH/NIA R01   01/01/2022–12/31/2022   0.96 Calendar
Total Award Amount: $1,579,916
Assessing the Interactive Effect of Lifetime and Old Age Cognitive Engagement on Cognitive Decline and Dementia: Cognitive Reserve versus Use it or Lose it (MPIs: B Helppie-McFall and K Langa)

19. NSF BCS 2023639   10/01/2020–09/30/2025   0.60 Calendar
Total Award Amount: $1,499,636
HNDS-I: Decennial Census Linkage Project (PI: T Alexander)

20. NIH/NIDDK R01 DK121709-02   04/01/2020–03/31/2025   0.60 Calendar
Total Award Amount: $3,809,089
Real-world Effectiveness of Preventive Pharmacological Therapy for Patients with Kidney Stones (PI: J Hollingsworth)

21. NIH/NIDA R01 DA031160-08   04/01/2019-03/31/2022   0.60 calendar
Total Award Amount: $1,076,400
Trajectories of Nonmedical Prescription Drug Misuse (PI: S McCabe)

22. AHRQ R01 HS024728-03   02/01/2019–04/30/2021   1.20 Calendar
Total Award Amount: $1,557,555

Will the Reach of ACOs Extend to Speciality Care (PI: J Hollingsworth)

23. AHRQ R01 HS024525-03   01/01/2019–09/30/2021   1.20 Calendar

Total Award Amount: $1,716,932

Assessing the Effects of Accountable Care Organizations Surgical Spending and Quality (PI: J Hollingsworth)

24. PCORI CE-1304-6543   09/01/2014–02/28/2017   1.20 Calendar

Post-Treatment Surveillance in Breast Cancer: Bringing CER to the Alliance (PI: C Greenberg)

Co-Investigator (Internal Funding)

25. UW Health   07/01/2015–08/31/2017   0.96 Calendar

Accountable Care Organization Reporting Project (PI: M Smith)

26. University of Wisconsin Survey Center   02/20/2015–08/31/2017   1.20 Calendar

Sampling Design and Survey Data Analysis

Pending Grants   ### Principal Investigator

1. NIH/NIA R01   04/01/2026–03/31/2031   3.60 Calendar

Total Award Amount: $3,921,914

Bayesian Survey Weighting and Poststratification with Applications to Mortality Estimation

2. Rusell Sage Foundation   01/01/2025–12/31/2026   0.84 Calendar

Total Award Amount: $88,000

The Normalization of Anti-Diversity and Racist Thinking After Affirmative Action

UM Subcontract PI (PI: D Pabello at University of California, Los Angeles)

3. NIH/NIA R01   04/01/2025–03/31/2030   3.60 Calendar

Total Award Amount: $3,859,495

Bayesian Survey Weighting and Poststratification for Health Disparity Research

Co-Investigator

4. NIH R01   07/01/2025–06/30/2030   1.20 Calendar

Michigan Study of Asian American Health

5. NIH R01   07/01/2025–06/30/2030   1.20 Calendar

Optimizing computational modeling strategies to characterize risk for externalizing psychopathology in a large community sample of youth

6. NIH R01   07/01/2025–06/30/2030   1.80 Calendar

Generalizing causal inference to populations under potentially biased assignment and selection mechanisms

| 7. NIH R01 | 07/01/2025–06/30/2029 | 1.20 Calendar |

Establishing population normative models of SUD–relevant computational cognitive mechanisms across behavioral and brain data

| 8. Arnold Ventures, LLC | 01/01/2025–12/31/2029 | 0.50 Calendar in Yrs1-2 |

Scale-up of the Criminal Justice Administrative Records System

Publications

Peer Reviewed Articles: $\star$ Corresponding author; $\sharp$ Student advised by Si

1. G Chung, **Y Si**, J Manne-Goehler, et al., and D Flood (2025), Attainment of Global Diabetes Targets in 2021: A Pooled Analysis of Individual-Level Data from National Surveys in 100 Low-, Middle-, and High-Income Countries, *The Lancet Global Health (Forthcoming)*, link

2. K Forthman, R Kuplicki, W Thompson, C Nemeroff, **Y Si**, C Fan, and M Paulus (2025), Treatment Resistant Depression: Socio-demographic Characteristics, Comorbidity and Treatment Patterns from the All of Us Research Program, *Journal of Affective Disorders, 390, 119858*, link

3. **Y Si**$\star$ (2025). On the Use of Auxiliary Variables in Multilevel Regression and Poststratification, *Statistical Science, 40(2), 272–288*, doi

4. B West, **Y Si**$\star$, Y Hu, S. McCabe, and P Veliz (2025). The Role of Weighting Adjustment for Attrition in Longitudinal Trajectory Modeling: A Simulation Study, *Communications in Statistics - Simulation and Computation, 54(3), 866–888*, doi

5. S Mathur, **Y Si**$\star$, and J Reiter (2024), Fully Synthetic Data for Complex Surveys, *Survey Methodology, 50(2), 347–373*, link

6. S Williams, J Zou, Y Liu, **Y Si**, S Galea, and Q Chen (2024). Improving Survey Inference Using Administrative Records without Releasing Individual-level Continuous Data, *Statistics in Medicine, 43(30), 5803–5813*, doi

7. **Y Si**$\star$, R Little, Y Mo, and N Sedransk (2024). Nonresponse Bias Analysis in Longitudinal Studies: A Comparative Review with an Application to the Early Childhood Longitudinal Study, *International Statistical Review, 92(3), 383–405*, doi

8. **Y Si**$\star$, G Bandoli, K Cole, D Fallin, E Stuart, K Gurka, K Althoff, and W Thompson (2024), Advancing High Quality Longitudinal Data Collection: Implications for the HEALthy Brain and Child Development (HBCD) Study Design and Recruitment, *Developmental Cognitive Neuroscience, 69, 101432*, doi

9. **Y Si**$\star$, S Lee, and S Heeringa (2024), Population Weighting in Statistical Analysis, *JAMA-Internal Medicine, 184(1), 98–99*, doi

10. K Li$\sharp$, and **Y Si**$\star$ (2024). Embedded Multilevel Regression and Poststratification: Model-based Inference with Incomplete Auxiliary Information, *Statistics in Medicine, 43(2), 256–278*, doi

11. Z Lin$\sharp$, **Y Si**$\star$, and J Kang (2024). Latent Subgroup Identification in Image-on-scalar Regression, *Annals of Applied Statistics, 18(1), 468–486*, doi

12. M Demidenko, E Huntley, L Du, C Estor, **Y Si**, C Wagner, P Clarke, and D Keating (2024). Individual and Community Level Developmental Adversities: Associations with Marijuana & Alcohol Use in a Longitudinal Study of Adolescents, *Journal of Youth and Adolescence. 53(4), 799–813*, doi

13. **Y Si***, R Little, Y Mo, and N Sedransk (2023). A Case Study of Nonresponse Bias Analysis in Educational Assessment Surveys, *Journal of Educational and Behavioral Statistics, 48(3), 271–295*, doi

14. **Y Si***, S Heeringa, D Johnson, R Little, W Liu, F Pfeffer, and T Raghunathan (2023). Multiple Imputation with Massive Data: An Application to the Panel Study of Income Dynamics, *Journal of Survey Statistics and Methodology, 11(1), 234–259*, doi

15. J Schumacher, H Neuman, M Yu, D Vanness, **Y Si**, E Burnside, K Ruddy, A Partridge, D Schrag, S Edge, Y Zhang, E Jacobs, J Havlena, A Francescatti, D Winchester, D McKellar, P Spears, D Kozower, G Chang, and C Greenberg (2022). Surveillance Imaging vs Symptomatic Recurrence Detection and Survival in Stage II-III Breast Cancer, *Journal of the National Cancer Institute*, doi

16. **Y Si***, B West, P Veliz, M Patrick, J Schulenberg, D Kloska, Y Terry-McElrath, and S McCabe (2022). An Empirical Evaluation of Alternative Approaches to Adjusting for Attrition When Analyzing Longitudinal Survey Data on Young Adults' Substance Use Trajectories, *International Journal of Methods in Psychiatric Research, 31(3), e1916*, doi

17. **Y Si***, L Covello, S Wang, T Covello, and A Gelman (2022). Beyond Vaccination Rates: A Synthetic Random Proxy Metric of Total SARS-CoV-2 Immunity Seroprevalence in the Community, *Epidemiology, 33(4), 457–464*, doi

18. S Bakre, N Moloci, E Norton, V Lewis, **Y Si**, S Lin, E Lawton, L Herrel, and J Hollingsworth (2022). Association Between Organizational Quality and Out-of-Network Primary Care Among Accountable Care Organizations That Care for High vs Low Proportions of Patients of Racial and Ethnic Minority Groups, *JAMA Health Forum, 3(4):e220575*, doi

19. **Y Si***, N Moloci, S Murali, S Krein, A Ryan, and J Hollingsworth (2022). Use of Preventive Care Services and Hospitalization among Medicare Beneficiaries in Accountable Care Organizations that Exited the Shared Savings Program, *JAMA Health Forum, 3(1):e214452*, doi

20. K Constante, E Huntley, **Y Si**, C Wagner, E Schillinger, and D Keating (2021). Conceptualizing Protective Family Context and Its Effect on Substance Use: Comparisons across Diverse Ethnic-Racial Youth, *Substance Abuse, 42(4), 796–805*, doi

21. J Song, B Radler, M Lachman, M Marlick, **Y Si**, and C Ryff (2021). Who Returns? Understanding Varieties of Longitudinal Participation in MIDUS, *Journal of Aging and Health, 33(10), 896–907*, doi

22. L Covello, A Gelman, **Y Si***, and S Wang (2021). Routine Hospital-Based SARS-CoV-2 Testing Outperforms State-Based Data in Predicting Clinical Burden, *Epidemiology, 32(6), 792–799*, doi

23. **Y Si*** and P Zhou$^\sharp$ (2021). Bayes-raking: Bayesian Finite Population Inference with Known Margins, *Journal of Survey Statistics and Methodology, 9(4), 833–855*, doi

24. R Hsi, P Yan, D Goldfarb, A Egbuji, **Y Si**, V Shahinian, and J Hollingsworth (2021). Comparison of Selective Versus Empiric Pharmacologic Preventative Therapy with Kidney Stone Recurrence, *Urology 149, 81–88*, doi

25. N Moloci, **Y Si**, E Norton, A Ryan, and J Hollingsworth (2021). Predicting Losses from Medicare Shared Savings Program Departures, *Journal of General Internal Medicine, 36, 2490–2491*, doi

26. **Y Si***, M Palta, and M Smith (2020). Bayesian Profiling Multiple Imputation for Missing Hemoglobin Values in Electronic Health Records, *Annals of Applied Statistics 14(4), 1903–1924*, doi

27. **Y Si***, R Trangucci, J Gabry, and A Gelman (2020). Bayesian Hierarchical Weighting Adjustment and Survey Inference, *Survey Methodology, 46(2), 181–214*, doi

28. **Y Si*** (2020). Model-based Inferences, *In P. Atkinson, S. Delamont, A. Cernat, J.W. Sakshaug, and R.A. Williams (Eds.). SAGE Research Methods Foundations*, doi

29. J Wang$^\sharp$, Y Jin, and **Y Si** (2018). Statistical Inference of Non-probability based Web Surveys, *Statistics and Decision, 18, 10–14*

30. S Makela$^\sharp$, **Y Si***, and A Gelman (2018). Bayesian Inference under Cluster Sampling with Probability Proportional to Size, *Statistics in Medicine, 37(26), 3849–3868*, doi

31. J Schumacher, H Neuman, G Chang, B Kozower, E Stephen, Y Meng, D Vanness, **Y Si**, E Jacobs, A Francescatti, P Spears, J Havlena, T Ades oye, D McKellar, D Winchester, and C Greenberg (2018). A National Study of the Use of Asymptomatic Systemic Imaging for Surveillance Following Breast Cancer Treatment, *Annals of Surgical Oncology, 25(9), 2587–2595*, doi

32. E DuGoff, J Cho, **Y Si**, and C Pollack (2018). Geographic Variations in Physician Relationships Over Time: Implications for Care Coordination, *Medical Care Research & Review, 75(5) 586–611*, doi

33. J Schumacher, H Neuman, Y Zhang, Y Meng, D Vanness, **Y Si**, E Burnside, K Ruddy, A Partridge, D Schrag, S Edge, E Jacobs, J Havlena, A Francescatti, D Winchester, D McKellar, P Spears, B Kozower, G Chang, and C Greenberg (2017). Asymptomatic Distant Recurrence Detection and Survival in Early Stage Breast Cancer: A Nationally Representative Study, *Journal of Clinical Oncology, 35 (15) 6520–6520*, doi

34. H Neuman, J Schumacher, A Francescatti, T Adesoye, S Edge, E Burnside, D Vanness, M Yu, **Y Si**, D McKellar, D Winchester, and C Greenberg (2016). Utility of Clinical Breast Exams in Detecting Local-Regional Recurrence After Breast-Conservation in Women with a Personal History of High-risk Breast Cancer, *Annals of Surgical Oncology, 23(10), 3385–3391*, doi

35. **Y Si***, J Reiter, and S Hillygus (2016). Bayesian Latent Pattern Mixture Models in Panel Studies with Refreshment Samples, *The Annals of Applied Statistics, 10(1), 118–143*, doi

36. D Early, J Berg, S Alicea, **Y Si**, J Aber, R Ryan, and E Deci (2016). The Impact of Every Classroom, Every Day on Student Achievement: Results from a School-randomized Efficacy Trial, *Journal of Research on Educational Effectiveness, 9(1), 3–29*, doi

37. **Y Si***, N Pillai, and A Gelman (2015). Bayesian Nonparametric Weighted Sampling Inference, *Bayesian Analysis, 10(3), 605–625*, doi

38. **Y Si***, J Reiter, and S Hillygus (2015). Semi-parametric Selection Models for Potentially Non-ignorable Attrition in Panel Studies with Refreshment Samples, *Political Analysis, 23, 92–112*, doi

39. S Makela$^\sharp$, **Y Si**, and A Gelman (2014). Statistical Graphics for Survey Weights, *Journal of Revista Columbiana De Estadistica, 37, 285–295*, doi

40. **Y Si** and J Reiter (2013). Nonparametric Bayesian Multiple Imputation for Incomplete Categorical Variables in Large-scale Assessment Surveys, *Journal of Educational and Behavioral Statistics, 38, 499–521*, doi

41. Y Deng, S Hillygus, J Reiter, **Y Si**, and S Zheng (2013). Handling Attrition in Longitudinal Studies: The Case for Refreshment Samples, *Statistical Science, 22, 238–256*, doi

42. **Y Si** and J Reiter (2011). A Comparison of Posterior Simulation and Inference by Combining Rules for Multiple Imputation, *Journal of Statistical Theory and Practice, 5(2), 335–347*, doi

Expert Panel Publications

43. T Smeeding, D Johnson, C Citro, K Abraham, W Darity, K Dynan, J Faber, R Hall, S Jenkins, D Jones, A O'Hara, L Pistaferri, J Sabelhaus, **Y Si**, A Sufi, G Zucman, and J Zwijnenburg (2024), Creating An Integrated System of Data and Statistics on Household Income, Consumption, and Wealth: Time to Build, *A Consensus Study Report of the National Academies of Sciences, Engineering, and Medicine's Committee on National Statistics*, doi

Books

44. L Kennedy, R Alexander, **Y Si**, and A Gelman (2025), Multilevel Regression and Poststratification: Practical Guides and New Developments (under review)

Book Chapters

45. **Y Si** (2025). Theories of MRP, in *CRC Multilevel Regression and Poststratification: Practical Guides and New Developments, edited by A Gelman, L Kennedy, R Alexander, Y Si and A Gelman (revision submitted)*

46. J Soulakova, T Vasilopoulos, and **Y Si** (2024), A Basic Overview of Statistics in Cancer Research, in *Springer book on Cancer Research Guidance for Clinicians, edited by Jeffrey Huang (under review)*

47. J Seeman, **Y Si**, and J Reiter (2024), Differentially Private Population Quantity Estimates via Survey Weight Regularization, in *NBER book on data privacy, edited by Ruobin Gong, V. Joseph Hotz, and Ian M. Schmutte*

48. S Makela♯, **Y Si**, and A Gelman (2018). Graphical Visualization of Polling Results, in *Oxford Handbook on Polling and Polling Methods, edited by Lonna Atkeson and Michael Alvarez*, doi

Other Publications

49. J Meerdink, T Tran, and **Y Si** (2025), Newly developed computational interface helps data novices interact with in-depth data, *Institute for Social Research, University of Michigan*, link

50. P Han and **Y Si** (2025), Frontiers of Data Integration, *Guest editor commentary for the special issue on data integration in the Journal of the Royal Statistical Society: Series A, 188(1), 24–26*, doi

51. M Patrick, Y Terry-McElrath, P Berglund, Y Pang, S Heeringa, and **Y Si** (2022), An Updated Weighting Strategy for the Monitoring the Future Panel Study, *Institute for Social Research, University of Michigan*, link

52. **Y Si**, R Little, and Y Mo (2021). Nonresponse Bias Analysis in Longitudinal Studies: A Case Study with the ECLS-K 2011 Study, *National Institute of Statistical Sciences and National Center for Education Statistics*

53. **Y Si** (2021). Statistical Adjustments of Sample Representation in Community-Level Prevalence Estimates of COVID-19 Transmission and Immunity, contribution to a special article, Surveys, Dashboards, and Innovations in Response to COVID-19, by D Liao, *AMSTAT News*, link

54. **Y Si**, R Little, and Y Mo (2021). Nonresponse Bias Analysis in Cross-sectional Studies: A Case Study with the ECLS-K 2011 Study, *National Institute of Statistical Sciences and National Center for Education Statistics*

55. L Covello, A Gelman, and **Y Si** (2021). We Still Don't Know How Many People Are Infected with Covid. We Can Find Out, *The Washington Post*, link

56. V Thaker, S Deng, C Zhou, B West, **Y Si**, and I Fennoy (2021). Population-level changes in Homeostatic Model Assessment for Insulin Resistance (HOMA-IR) in US youth aged 12-18 years, 1999-2018, *J Endocr Soc. 2021 May 3;5(Suppl 1):A451*, doi

57. L Kennedy, G Basse, A Gelman, G Imbens, **Y Si**, D Rothenhausler, and J Spiess (2020). Lessons Learned and Remaining Challenges for Online Seminars and Conferences, *Amstat News*, link

58. **Y Si** and A Gelman (2014). Survey Weighting for the New York City Longitudinal Survey on Poverty Measure, *New York City Longitudinal Study of Poverty*

59. **Y Si** and A Gelman (2014). Methodology for Constructing Primary Caregiver Weights for Wave 3-5 in the Fragile Families and Child Wellbeing Study, *Fragile Families and Child Wellbeing Study*, link

60. **Y Si** and A Gelman (2014). Methodology for Constructing Mother, Father and Couple Weights for Core Telephone Survey Wave 5, *Fragile Families and Child Wellbeing Study*, link

61. **Y Si** and A Gelman (2014). Methodology for Constructing Child Weights for Wave 3-5 in the Fragile Families and Child Wellbeing Study, *Fragile Families and Child Wellbeing Study*, link

62. C Wimer, I Garfinkel, M Gelblum, N Lasala, **Y Si**, J Teitler, and J Waldfogel (2013). The New York City Poverty and Disadvantage Tracker, *Robin Hood Foundation*, link

63. E Deci, D Early, J Aber, R Ryan, J Berg, S Alicea, and **Y Si** (2013). Report: Validation of the Engagement, Alignment, and Rigor (EAR) Classroom Visit Protocol & Every Classroom, Every Day Efficacy Trial, *U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance*, link

64. **Y Si** and J Reiter (2010). A New Approach to Protecting Confidentiality for Census Microdata with Missing Values, *In JSM Proceedings, Survey Research Methods Section. Alexandria, VA: American Statistical Association*, link

Journal Submissions Under Peer Review

65. D Suolang, J Yang, L Miller, J Rodhouse, E Page, **Y Si**, and B West (2025), Weighting Adjustment and Multiple Imputation for Addressing Nonresponse in a Multi-Day Diary Survey, Journal of Survey Statistics and Methodology

66. **Y Si***, T Tran, J Gabry, M Morris, and A Gelman (2025), Multilevel Regression and Poststratification Interface: Application to Track Community-level COVID-19 Viral Transmission, Population Health Metrics, link

67. **Y Si***, J Wagner, and R Kessler (2025), Probability, Probability-based, and Nonprobability Surveys in Psychiatric Epidemiologic Research, JAMA-Psychiatry

68. S Zhang, **Y Si**, and J Dziak (2025), How to Manage Missing Covariates in Randomized Controlled Trials: A Comparison of Strategies, BMC Medical Research Methodology

69. S Yoo, F Teufel, M Theilmann, **Y Si**, et al., D Flood, and J Manne-Goehler (2025), Glucagon-like Peptide-1 Receptor Agonist Eligibility for Obesity Across 99 Countries, The Lancet Diabetes & Endocrinology

70. K. Li$^\sharp$ and **Y Si*** (2025), Demographic variation between asymptomatic and symptomatic COVID-19 transmission outcomes, Journal of Applied Statistics

71. Z Lin$^\sharp$, F Molloy, C Sripada, J Kang, and **Y Si*** (2025), Population-weighted Image-on-scalar Regression Analyses of Large Scale Neuroimaging Data, Developmental Cognitive Neuroscience, link

72. L Potter, D Wetter, J Yap, T Qian, Q Yu, **Y Si**, C Yoon, C Lam, S Murphy, and I Nahum-Shani (2025), The Mobile Assistance for Regulating Smoking (MARS): Results from A Micro-Randomized Trial, npj Digital Medicine

73. K. Li[♯], **Y Si**, and M Elliott (2024), Generalizing Causal Inference from Probability Samples with Modified Doubly-Robust Estimators, Journal of Survey Statistics and Methodology

74. J Seeman, **Y Si**, and J Reiter (2024), Differentially Private Finite Population Estimation via Survey Weight Regularization, Harvard Data Science Review, link

Software Development

- **Y Si**, T Tran, J Gabry, M Morris, and A Gelman (2024), MRP interface, link
- A Gelman, J Hill, Y Su, M Yajima, M Pittau, B Goodrich, **Y Si**, and J Kropko (2015). R package "mi" for missing data imputation, link

Presentations

Invited short course/webinar

1. Data Integration in Surveys and Clinical Trials, Population Dynamics and Health Program workshop series, University of Michigan, MI, Sept. 2024

2. Multilevel Regression and Poststratification, Training workshop at WAPOR, Seoul, South Korea, Jul. 2024, link

3. A Comparative Review of Data Integration Methods, Webinar, Survey Methods and Research Section, American Statistical Association, Apr. 2024, link

4. Introduction to Bayesian Inference, Bootcamp for the Schmidt AI in Science Postdocs, Michigan Institute for Data Science (MIDAS), University of Michigan, MI, Feb. 2023

5. Applying Weights to Longitudinal Survey Data, First workshop for the Network for Innovative Methods in Longitudinal Aging Studies, University of Michigan, MI, Sept. 2022, link

6. Multilevel Regression and Poststratification, Webinar, Survey Methods and Research Section, American Statistical Association, Oct. 2019, link

Invited seminar/conference talks

7. MPSDS/JPSM Seminar Series, University of Michigan, MI, Sept. 2025

8. Joint Statistical Meetings (JSM), Nashville, TN, Aug. 2025

9. The Conference on Small Area Estimation-Survey and Data Science, Turin, Italy, Jul. 2025

10. The International Chinese Statistical Association (ICSA) Applied Statistics Symposium, Storris, CT, Jun. 2025

11. Social, Behavioral, and Economic COVID Consortium Annual Meeting, Ann Arbor, MI, May. 2025

12. Duke StatSci Research Alumni Symposium: A Posteriori Celebration of Statistical Science on Duke Centennial, Durham, NC, Nov. 2024

13. Joint Statistical Meetings (JSM), Portland, OR, Aug. 2024

14. The 2nd Joint Conference on Statistics and Data Science in China, Yunnan, China, Jul. 2024

15. The International Chinese Statistical Association (ICSA) Applied Statistics Symposium, Nashville, TN, Jun. 2024

16. The Conference on Small Area Estimation-Survey and Data Science, Lima, Peru, Jun. 2024

17. Social, Behavioral, and Economic COVID Consortium Annual Meeting, Ann Arbor, MI, May. 2024

18. Primary Research Staff (PRS) Seminar, Survey Research Center, University of Michigan, MI, Apr. 2024

19. Working group in Small Area Estimation, University of Washington, WA, Apr. 2024

20. ENAR meeting, Baltimore, MD, Mar. 2024

21. The Panel Study of Income Dynamics Seminar Series, University of Michigan, MI, Nov. 2023

22. Department of Preventive Medicine, Northwestern University, Chicago, IL, Nov. 2023

23. Federal Committee on Statistical Methodology (FCSM) Research & Policy Conference, College Park, MD, Oct. 2023

24. PhD Seminar, Michigan Program in Survey and Data Science and Joint Program in Survey Methodology (MPSDS/JPSM), University of Michigan, MI, Sept. 2023

25. Social, Behavioral, and Economic COVID Consortium Annual Meeting, Sept. 2023

26. The 6th Baltic-Nordic Conference on Survey Statistics, Helsinki, Finland, Aug. 2023

27. Joint Statistical Meetings (JSM), Toronto, Canada, Aug. 2023

28. International Statistical Institute (ISI) World Statistics Congress, Ottawa, Canada, Jul. 2023

29. ICSA International Conference, Chengdu, China, Jul. 2023

30. The ICSA Applied Statistics Symposium, Ann Arbor, MI, Jun. 2023

31. Department of Biostatistics, University of Michigan, MI, Mar. 2023

32. MPSDS/JPSM Seminar Series (online), University of Michigan, MI, Feb. 2023

33. Department of Statistics, University of Missouri, Columbia, MO, Dec. 2022

34. Department of Statistics, University of California, Santa Cruz, CA, Nov. 2022

35. PhD Seminar, MPSDS/JPSM, University of Michigan, MI, Nov. 2022

36. Social, Behavioral, and Economic COVID Consortium Annual Meeting, Bethesda, MD, Sept. 2022

37. Joint Statistical Meetings (JSM), DC, Aug. 2022

38. The International Conference on Econometrics and Statistics (EcoSta 2022, online), Jun. 2022

39. The Statistical Society of Canada 2022 Meeting (online), Jun. 2022

40. The Conference on Small Area Estimation, College Park, MD, May. 2022

41. Forum on Coordinated Sample Design for Multiple Surveys (online), May. 2022

42. Multilevel Regression and Poststratification Working Group (online), Oct. 2021

43. PhD Seminar, Michigan Program in Survey and Data Science and Joint Program in Survey Methodology (MPSDS/JPSM), University of Michigan, MI, Sept. 2021

44. The International Chinese Statistical Association (ICSA) Applied Statistics Symposium (online), Sept. 2021

45. Joint Statistical Meetings (online), Aug. 2021

46. The Statistical Society of Canada 2021 Meeting (online), Jun. 2021

47. The International Indian Statistical Association Conference (online) May. 2021

48. Michigan Center on the Demography of Aging (MiCDA) Symposium (online), University of Michigan, MI, May. 2021

49. Primary Research Staff (PRS) Seminar (online), Survey Research Center, University of Michigan, MI, Jan. 2021

50. Department of Preventive Medicine (online), Northwestern University, Chicago, IL, Jan. 2021

51. The ICSA Applied Statistics Symposium (online), Houston, TX, Dec 2020

52. PhD Seminar (online), Program in Survey Methodology, University of Michigan, MI, Nov. 2020

53. Joint Statistical Meetings (online), Aug. 2020

54. MiCDA Symposium (online), University of Michigan, MI, May. 2020

55. Michigan Institute for Data Science (MIDAS), Working Group for Selection Bias and Missing Data in COVID-19 Population Studies (online), University of Michigan, MI, Apr. 2020

56. Michigan Program in Survey Methodology/Joint Program in Survey Methodology Seminar Series (online), University of Michigan, MI, Apr. 2020

57. Conference on Multilevel Regression and Poststratification (online), New York, NY, Apr. 2020

58. Data Anonymization in the 21st century, Data Privacy Day, The the Inter-university Consortium for Political and Social Research (ICPSR) Council meeting, Ann Arbor, MI, Mar. 2020

59. The Dialogue between Big Data and Survey Data in Social Science Research, Peking University, Beijing, China, Sept. 2019

60. School of Statistics, Renmin University of China, Beijing, China, Sept. 2019

61. Conference on Current Trends in Survey Statistics-A Satellite Conference to the 62nd ISI World Statistics Congress, National University of Singapore, Singapore, Aug. 2019

62. Junior Fellows Seminar, Joint Program in Survey Methodology, University of Maryland, MD, Jul. 2019

63. The ICSA Applied Statistics Symposium, Raleigh, NC, Jun. 2019

64. Bayesian Causal Inference Workshop, Columbus, OH, Jun. 2019

65. Department of Biostatistics, University of Michigan, MI, Oct. 2018

66. Junior Fellows Seminar, Joint Program in Survey Methodology, University of Maryland, MD, Jul. 2018

67. International Society for Bayesian Analysis (ISBA) 2018 Meetings, Edinburgh, UK, Jun. 2018

68. MPSM/JPSM Seminar Series, University of Michigan, MI, Jan. 2018

69. Department of Urology, University of Michigan, MI, Jan. 2018

70. Center for Youth & Social Issues, University of Michigan, MI, Jan. 2018

71. Joint Statistical Meetings, Baltimore, MD, Aug. 2017

72. 2016 Conference for Women in Statistics and Data Science, NC, Oct. 2016

73. Survey Research Center, Institute of Social Research, University of Michigan, MI, Sept. 2016

74. Department of Statistics, University of Missouri, MO, Mar. 2016

75. ENAR meeting, Austin, TX, Mar. 2016

76. The 8th International Conference of the ERCIM WG on Computational and Methodological Statistics, London, UK, Dec. 2015

77. Division of Biostatistics, Medical College of Wisconsin, WI, Oct. 2015

78. Joint Statistical Meetings, Seattle, WA, Aug. 2015

79. ISBS-DIA Joint Symposium on Biopharmaceutical Statistics, BJ, China, Jun. 2015

80. School of Statistics, Renmin University of China, BJ, China, Jun. 2015

81. Department of Statistics, University of Connecticut, CT, Apr. 2015

82. Department of Statistics, University of Wisconsin-Madison, WI, Mar. 2015

83. Department of Biostatistics and Epidemiology, University of Illinois at Chicago, IL, Oct. 2014

84. Department of Psychology, University of Notre Dame, IN, Sept. 2014

85. Computational Methods for Survey and Census Data in Social Sciences, Montreal, CA, Jun. 2014

86. Department of Statistics, Iowa State University, IW, Mar. 2014

87. Department of Mathematics and Statistics, American University, DC, Jan. 2014

88. Department of Population Health Sciences, University of Wisconsin-Madison, WI, Jan. 2014

89. The American Panel Study Workshop, Washington University at St. Louis, MO, Nov. 2013

90. Department of Mathematical Sciences, New Jersey Institute of Technology, NJ, Oct. 2013

91. Department of Epidemiology, Columbia University, NY, Apr. 2013

92. Department of Statistics, Columbia University, NY, Sept. 2012

93. Statistical Society of Canada 2012 Meeting, Guelph, ON, Canada Jun. 2012

94. American Institute for Research, DC, Apr. 2012

95. The Wharton School of Business, University of Pennsylvania, Philly, PA, Feb. 2012

96. Merck Co, Philly, PA, Feb. 2012

97. Joint Statistical Meetings, Vancouver, BC, Canada, Aug. 2010

Contributed

98. MIDAS Annual Data Science Symposium (online), University of Michigan, Nov. 2020

99. OpenDP Community Meeting (online), May. 2020

100. Value-based Purchasing Accountable Care Organizations (ACO) Working Group Presentation, University of Michigan, Oct. 2019

101. Joint Statistical Meetings, Denver, CO, Jul. 2019

102. Value-based Purchasing ACO Working Group Presentation, University of Michigan, Mar. 2019

103. Quantitative Methodology Program/Survey Methodology Program (QMP/SMP) Methodological Seminar, University of Michigan, Feb. 2019

104. Advances in Causal Inference, Survey Statistics, Disclosure Risk, and Missing Data, in Honor of Rod Little's 65th Birthday, Ann Arbor, MI, Oct. 2015

105. IMS Junior Researcher Conference, Seattle, WA, Aug. 2015

106. ENAR Spring Meeting, Miami, FL, Mar. 2015

107. Frontiers of Hierarchical Modeling in Observational Studies, Complex Surveys and Big Data, College Park, MD, May. 2014

108. OBayes Workshop and Bayes 250, Durham, NC, Dec. 2013

109. SAMSI Workshop on Computational Methods in Social Sciences, RTP, NC, Aug. 2013

110. Joint Statistical Meetings, Montreal, CA, Aug. 2013

111. The 25th Anniversary Celebration for Department of Statistical Science, Duke University, Durham, NC, Oct. 2012

112. Joint Statistical Meetings, San Diego, CA, Aug. 2012

113. Joint Statistical Meetings, Miami, FL, Aug. 2011

114. The 2011 International Workshop on Objective Bayes Methodology, Shanghai, China, Jun. 2011

Teaching Experience	University of Michigan MPSDS and University of Maryland JPSM	Instructor
	SURVMETH 890 PhD Seminar	*Fall 2025*
	SURVMETH 625 Applied Sampling	*Winter 2018, 2019, 2020, 2021, 2023, 2025*
	SURVMETH 687 Applications of Statistical Modeling	*Fall 2018, 2019, 2020, 2021, 2022, 2024*
	SURVMETH 614 Analysis of Complex Sample Survey Data	*Summer 2018, 2019, 2020, 2022*
	SURVMETH 699: Directed Research	*Fall 2020, 2023; Winter 2023, 2024*

University of Michigan Department of Statistics	**Instructor**
STATS 451 Bayesian Data Analysis	*Winter 2022*
University of Wisconsin-Madison	**Instructor**
BMI/PHS 651 Advanced Regression Methods	*Fall 2015, 2016*
PHS 805 Epidemiologic Methods (Guest)	*Fall 2015, 2016*
STAT 992 Research Topics in Predictive Modeling for Clinical Biostatistics	*Fall 2015*
SIBS 546 Biostat Practicum	*Summer 2015*
BMI/PHS 652 Missing Data: Topics and Tools	*Spring 2015*
BMI/PHS 651 Advanced Regression Methods (Guest)	*Fall 2014*
BMI/PHS 551 Introduction to Biostatistics (Guest)	*Fall 2014*
Harvard University	**Guest Lecturer**
Missing Data Methods	*Spring 2014*
Columbia University	**Guest Lecturer**
Sample Surveys	*Fall 2013*
Duke University	**Teaching Assistant**
Bayesian Statistics and Modern Computing	*Spring 2011*
Generalized Linear Models	*Fall 2010*
Probability/Statistical Models	*Fall 2010*
Data Analysis and Statistical Inference	*Fall 2009*

Supervising and advising

- Mentees:

  Soumojit Das, PhD, Postdoctoral Research Associate, University of Michigan, 2024-2025

  Rayleigh Lei, PhD, Postdoctoral Research Associate, University of Michigan, 2024-2025

  Toan Tran, MS, Research Software Engineer, University of Michigan, 2023-

  Jeremy Seeman, PhD, Data Science Postdoctoral Fellow, University of Michigan, 2023-2024

- Research Assistants:

  Aulia Dini Rafsanjani, MS, Michigan Program in Survey and Data Science, University of Michigan, 2023

  (*Winner, 2023 Rackham Conference Travel Grant*)

  Wenxin Guo, BS, Department of Statistics, University of Michigan, 2022-2023

  Yueying Hu, BS, Department of Statistics, University of Michigan, 2022-2023

  Licheng Du, BS, Department of Statistics, University of Michigan, 2022

  Heyuan Liu, BS, Department of Statistics, University of Michigan, 2022

  Wenxing Wang, BS, Department of Statistics, University of Michigan, 2022

  Chen Liu, MS, Department of Statistics, University of Michigan, 2021-2023

  Zikai Lin, Department of Biostatistics, University of Michigan, MS, 2019-2021, PhD, 2021-2024

  (*Winner, 2023 ICSA Applied Statistics Symposium Student Poster Award;*

ENAR 2022 Spring Meeting Distinguished Student Paper Award;
2022 Rackham Conference Travel Grant)

Katherine Li, Department of Biostatistics, University of Michigan, MS, 2018-2020, PhD, 2020-2024

(*Winner, 2022 Rackham Conference Travel Grant;*
2021 Rackham Conference Travel Grant;
2019 Michigan Institute for Data Science Symposium Student Poster Award)

Jiazhi Yang, MS, Michigan Program in Survey and Data Science, University of Michigan, 2021-2022

(*Winner, 2022 Rackham Conference Travel Grant*)

Adam Kaderabek, MS, Michigan Program in Survey and Data Science, University of Michigan, 2021-2022

(*Winner, 2021 Rackham Conference Travel Grant*)

Li-Hsuan Lin, BS, Department of Statistics, University of Michigan, 2020-2021

Ang Li, MS, Michigan Program in Survey Methodology, University of Michigan, 2018

Yijun Li, MS, Department of Biostatistics, University of Michigan, 2018

Zeping Tao, MS, Michigan Program in Survey Methodology, University of Michigan, 2018

Micha Fischer, PhD, Michigan Program in Survey Methodology, University of Michigan, 2017-2018

Peigen Zhou, PhD, Department of Statistics, University of Wisconsin-Madison, 2015-2017

Sijing Li, PhD, Department of Statistics, University of Wisconsin-Madison, 2015-2017

Duzhe Wang, PhD, Department of Statistics, University of Wisconsin-Madison, 2017

Yifei Zhang, MS, Department of Biostatistics & Medical Informatics, University of Wisconsin-Madison, 2017

- Academic Advising:

  Yao Sun, MS, Michigan Program in Survey and Data Science, University of Michigan, 2024-

  Akari Oya, MS, Michigan Program in Survey and Data Science, University of Michigan, 2023-2025

  (*Winner, 2024 Rackham Conference Travel Grant*)

  Yao (Aria) Lu, MS, Michigan Program in Survey and Data Science, University of Michigan, 2023-2025

  Keqing Lu, MS, Michigan Program in Survey and Data Science, University of Michigan, 2023-2025

  Zeyu Lou, MS, Michigan Program in Survey and Data Science, University of Michigan, 2023-2025

  Xinyi Chen, MS, Michigan Program in Survey and Data Science, University of Michigan, 2023-2025

  (*Winner, 2025 Rackham Conference Travel Grant*)

  Wen Chen, MS, Michigan Program in Survey and Data Science, University of Michigan, 2023-2025

Aulia Dini Rafsanjani, MS, Michigan Program in Survey and Data Science, University of Michigan, 2022-2024

Junhui Qian, MS, Michigan Program in Survey Methodology, University of Michigan, 2021-2023

Anqi Liu, MS, Michigan Program in Survey Methodology, University of Michigan, 2021-2023

Jiazhi Yang, MS, Michigan Program in Survey Methodology, University of Michigan, 2021-2023

Chendi Zhao, MS, Michigan Program in Survey Methodology, University of Michigan, 2020-2022

Hanh Bui, MS, Michigan Program in Survey Methodology, University of Michigan, 2018-2024

Shiyu Zhang, PhD, Michigan Program in Survey Methodology, University of Michigan, 2018-2021

Junhan Tang, MS, Michigan Program in Survey Methodology, University of Michigan, 2019-2021

Ilse Paniagua, MS, Michigan Program in Survey Methodology, University of Michigan, 2018-2020

Ruixuan Li, MS, Michigan Program in Survey Methodology, University of Michigan, 2018-2020

Crystal Chen, MS, Department of Statistics, University of Wisconsin-Madison, 2015-2017

Jesse Dirkman, MS, Department of Statistics, University of Wisconsin-Madison, 2015-2016

Lan Luo, MS, Department of Statistics, University of Wisconsin-Madison, 2015-2016

- PhD Advising and Dissertation Committee:
  Yueying Hu, PhD, Department of Biostatistics, University of Michigan, Co-chair, 2025-
  Sergio Martinez, PhD, Michigan Program in Survey and Data Science, University of Michigan, 2025-
  Anne Cohen, PhD, Michigan Program in Survey and Data Science, University of Michigan, 2025-
  Zikai Lin, PhD, Department of Biostatistics, University of Michigan, Co-chair, 2024
  Katherine Li, PhD, Department of Biostatistics, University of Michigan, Co-chair, 2024
  Alberto Arletti, PhD, Department of Statistical Science, University of Padova, Padova, Italy, Co-supervisor, 2024-2025 (Visiting PhD Scholar, University of Michigan, 2024)
  Vincenzo Loffredo, PhD, Department of Statistics, University of Michigan, 2024
  Rob Trangucci, PhD, Department of Statistics, University of Michigan, 2023
  Joe Levy, PhD, Department of Population Health Sciences, University of Wisconsin-Madison, 2017
  Jared Huling, PhD, Department of Statistics, University of Wisconsin-Madison, 2017
  Sien Deng, PhD, Department of Educational Psychology, University of Wisconsin-Madison, 2017
  Jun Wang, PhD, Visiting PhD Scholar, University of Wisconsin-Madison, 2017
  Cuicui Qi, PhD, Department of Statistics, University of Wisconsin-Madison, 2016
  Donggyu Kim, PhD, Department of Statistics, University of Wisconsin-Madison, 2016
  Tram Ta, PhD, Department of Statistics, University of Wisconsin-Madison, 2016
  Chenliang Xu, PhD, Department of Statistics, University of Wisconsin-Madison, 2015

- PhD Preliminary/Comprehensive Exam Committee:
  Srijeeta Mitra, PhD, Joint Program in Survey Methodology, University of Maryland, 2025
  Kaidar Nurumov, PhD, Michigan Program in Survey and Data Science, University of Michigan, 2024

Vincenzo Loffredo, PhD, Department of Statistics, University of Michigan, 2022

Ali Rafei, PhD, Michigan Program in Survey Methodology, University of Michigan, Chair, 2019

Fernanda Alvarado-Leiton, PhD, Michigan Program in Survey Methodology, University of Michigan, 2019

Yifei Liu, PhD, Department of Statistics, University of Wisconsin-Madison, 2017

Dan Su, PhD, Department of Educational Psychology, University of Wisconsin-Madison, 2017

Joe Levy, PhD, Department of Population Health Sciences, University of Wisconsin-Madison, 2016

Sien Deng, PhD, Department of Educational Psychology, University of Wisconsin-Madison, 2016

Tram Ta, PhD, Department of Statistics, University of Wisconsin-Madison, 2015

Chenliang Xu, PhD, Department of Statistics, University of Wisconsin-Madison, 2014

Professional Activities

National Committee Memberships

- Scientific program committee member for the ICSA 2025 Applied Statistics Symposium, 2024-2025
- Discussion panelist in the HEAL/NIDA Workshop on substance use disorder recovery within the socioenvironmental context, 2024, link
- Protocol review board member of CTN-0146 Adolescent Post-operative opioid EXposure (APEX) for the Clinical Trials Network in the National Institute on Drug Abuse, 2024
- Expert Gathering of the Stavros Niarchos Foundation (SNF) Global Center for Child and Adolescent Mental Health at the Child Mind Institute, New York, 2023
- Technical Assistance Partner, Data Equity Center, University of California, Los Angeles, 2023-
- Co-chair for HBCD Biostatistics working group, 2022-
- Panel member on An Integrated System of Household Income, Wealth, and Consumption Data and Statistics to Inform Policy and Research, Committee on National Statistics (CNSTAT), National Academies of Sciences, Engineering, and Medicine, link, 2022-2024
- Grant reviewer for NSF-Research on the Science & Technology Enterprise: Indicators, Statistics, and Methods, 2022
- ENAR student paper award committee, 2021-2024
- Technical working group member for the USDA-NASS IDEAL project, USDA, Washington, DC, 2021-2024
- Conference organizer on Multilevel Regression and Poststratification, Columbia University, 2020
- Reviewer for Student Paper Competition, the International Conference on Health Policy Statistics (ICHPS), 2019
- Grant reviewer for NSF-Methodology, Measurement, and Statistics program, 2016, 2020, 2024
- Reviewer for the International Conference on Machine Learning, 2016
- Reviewer for the International Conference on Artificial Intelligence and Statistics, 2016
- Reviewer for Student Paper Competition, JSM, 2015
- Judge for Poster Award Competition, ICSA, 2023

Local Committee Memberships

- Data De-Identification Working Group member in the Research Data Stewardship Initiative, University of Michigan, 2025-
- ISR 2025 Next Generation Initiative Award Committee, University of Michigan, 2024-
- Admission rubrics review committee, MPSDS/JPSM, University of Michigan/University of Maryland, 2024
- Promotion review committee, Survey Research Center, University of Michigan, 2024
- Reviewer for Schmidt AI in Science Fellowship Application, MIDAS, University of Michigan, 2023
- Reviewer for Michigan Data Science Fellowship Application, MIDAS, University of Michigan, 2023
- Grant reviewer for Graham Sustainability Institute Catalyst Grants, University of Michigan, 2023
- Seminar organization committee chair, Survey Research Center, University of Michigan, 2023-2024
- Sampling Program for Survey Statisticians admission committee and Kish Fellowship award committee, 2023-
- Faculty DEI working group member, Institute for Social Research, University of Michigan, 2023-2025
- ICPSR Disclosure Review Board, 2022-
- Grant reviewer for Propelling Original Data Science Grants, MIDAS, University of Michigan, 2021
- JPSM MS online degree program committee, 2021-2022
- Working group leader for the Methodology and Tool Development for Selection Bias and Missing Data in Covid-19 Population Studies, MIDAS, University of Michigan, 2020
- Faculty judge for Michigan Student Symposium for Interdisciplinary Statistical Sciences, 2020
- Master student admission, MPSDS/JPSM, University of Michigan/University of Maryland, 2019-
- Seminar organization committee, Survey Research Center, University of Michigan, 2018-2020
- PhD qualification exam committee chair, MPSDS/JPSM, University of Michigan/University of Maryland, 2018-
- Grant reviewer for Office of Research Faculty Grants and Awards, University of Michigan, 2017
- PhD student admission, MPSDS/JPSM, University of Michigan/University of Maryland, 2017-2019
- Vice president for the American Statistical Association (ASA) Wisconsin Chapter, 2016
- Wisconsin ASA Chapter Madison Networking and Planning Luncheon, 2016
- The 7th International Forum on Statistics of Renmin University of China, 2016
- Department seminar, Biostatistics & Medical Informatics, University of Wisconsin, 2015-2017

Other National and Local Service

- Invited session organizer for:

  "Recent Advances in Incorporating Sample Design Effects and Spatial Structure into Small Area Estimation," The ISBA World Meeting, 2024

  "Model and Variable Selection Methods with Complex Survey Data," The ICSA Applied Statistics Symposium, 2023

  "Bayesian estimation of multilevel modeling with survey data," JSM, 2023

  "COVID-19 and survey sampling: Challenges and opportunities," JSM, 2021

  "Evolving survey inference in the big data era: Challenges and opportunities," JSM, 2019

  "Recent development of Bayesian methods in survey sampling," JSM, 2017

  "Recent development in statistical analysis of missing data in observational studies," IMS-China, 2017

  "Missing data issues in meta-analysis with individual participant data," ENAR meeting, 2016

- Roundtable discussion organizer for "Bridging data science and survey methodology in research and educational programs," JSM, 2020

- Session chair for ENAR annual meetings, 2015, 2016, 2017, 2024

- Session chair for JSM, 2011, 2013, 2015, 2019, 2020, 2023, 2024

- Session chair for ICSA Applied Statistics Symposiums, 2021, 2023

- Session chair for ISBA World Meetings, 2024

Editorial Service

- Guest Editor:

  Journal of the Royal Statistical Society-Series A, Special Issue "Frontiers in Data Integration," 2023-2024

  Mathematics, Special Issue "Survey Statistics and Survey Sampling: Opportunity and Challenge," 2022-2024

- Associate Editor:

  Journal of Educational and Behavioral Statistics, 2024-

  STAT, 2023-

  Journal of Official Statistics, 2019-

- Editorial Board Member:

  Journal of Educational and Behavioral Statistics, 2023-2024

- Referee for Journals:

  Journal of the American Statistical Association, Biometrika, Annals of Applied Statistics, Biometrics, Bayesian Analysis, Statistical Science, Journal of the Royal Statistical Society-Series A, Journal of the Royal Statistical Society-Series B, Journal of Survey Statistics and Methodol-

ogy, International Statistical Review, Journal of Computational and Graphical Statistics, Survey Methodology, American Journal of Epidemiology, American Journal of Public Health, Austrian Journal of Statistics, Biometrical Journal, Behavior Research Methods, British Journal of Mathematics & Computer Science, Canadian Journal of Statistics, Communications in Statistics - Theory and Methods, Developmental Cognitive Neuroscience, Epidemiology, Epidemiologic Methods, European Journal of Operational Research, Harvard Data Science Review, Health Services and Outcome Research Methodology, International Journal of Pattern Recognition and Artificial Intelligence, IERI Monograph Series, JAMA Oncology, Journal of Applied Statistics, Journal of Educational and Behavioral Statistics, Journal of Machine Learning Research, Journal of Official Statistics, Journal of Probability and Statistics, Journal of Statistical Software, Journal of Computational and Applied Mathematics, Communications in Statistics–Theory and Methods, Multivariate Behavioral Research, Methodology, Nature Communications, Population Health Metrics, Population Research and Policy Review, Psychological Methods, Public Health Reports, STAT, Statistical Analysis and Data Mining, Statistical methods in Medical Research, Statistica Sinica, The American Statistician, The Lancet Infectious Diseases, Statistics in Medicine, Scandinavian Journal of Statistics Sankhya A, Statistics and Probability Letters, Statistics and Computing, Electronic Journal of Statistics, Sociological Methods and Research, Spatial Statistics, WIREs Computational Statistics

Certificates
- Genetics for Social Scientists Workshop, 2020
- University of Michigan American Accent Program, 2019
- Blend@UW Course Design Program, 2015
- Wisconsin Idea Seminar, 2015

Membership
- International Statistical Institute (2024-)
- International Biometric Society-ENAR (2014-)
- International Society for Bayesian Analysis (2011-)
- Institute of Mathematical Statistics (2011-)
- International Chinese Statistical Association (2011-)
- American Statistical Association (2010-)