

# YAJUAN SI

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Ann Arbor, MI 48104 *Website:* <http://www-personal.umich.edu/~yajuan/>

**Education** **Duke University, Department of Statistical Science**, Durham, North Carolina, USA  
**Ph.D.**, Statistical Science, 2012 ; **M.S.**, Statistical Science 2010  
*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.E., 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 Assistant Professor (tenure track), Survey Methodology Program, Survey Research Center, Institute for Social Research** *Sep 2017 - present*  
**Member, Institute for Healthcare Policy & Innovation** *Jan 2018 - present*  
**Research Assistant Professor, Department of Biostatistics** *Feb 2019 - present*  
**Affiliate, Population Dynamics and Health Program** *May 2019 - present*  
**Affiliate, Michigan Center on the Demography of Aging** *May 2019 - present*  
**Teaching faculty, Joint Program in Survey Methodology, University of Maryland** *Sep 2019 - present*  
**Affiliate, Michigan Institute for Data Science** *Nov 2019 - present*

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

**University of Wisconsin-Madison**, Madison, WI  
**Visiting Assistant Professor, Department of Population Health Sciences** *Sep 2017 - present*  
**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*

**University of Hong Kong**, Hong Kong

**Research Assistant, Department of Statistics & Actuarial Science** *Jan 2008 - May 2008*

## Awards

- 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
- IMS Junior Researcher Conference-Travel Award, 2015
- 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
- Renmin University of China, First-class Student Fellowship, 2005, 2006, 2007

## Funded Grants as Principal Investigator

UM/MiCDA 07/01/2020–10/31/2021 1.20 Calendar  
Confidentiality protection after record linkage: Laying the groundwork for synthetic record linkage

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

NISS/NCES 01/01/2020–12/31/2021 2.40 Calendar  
Total Award Amount: \$250,000  
Nonresponse Bias Adjustment for Large-scale Education Surveys

UM/MIDAS 01/01/2020–05/31/2021 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

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

	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		
	UM/SRC-PSC	05/01/2018-05/01/2019	1.00 Calendar
	Population Dynamics and Health Program's New Investigator Intensive Mentoring Program		
	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		
	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: Zhao at Fred Hutchinson Cancer Research Center)		
	NSF/MMS SES 1760133	10/01/2015-09/30/2020	1.92 Calendar
	Total Award Amount: \$197,949		
	Multilevel Regression and Poststratification: A Unified Framework for Survey Weighted Inference		
<b>Funded Grants</b>	NIH/NIDDK R01	04/01/2020-03/31/2025	0.60 Calendar
<b>as</b>	Total Award Amount: \$3,809,089		
<b>co-Investigator</b>	Real-world effectiveness of preventive pharmacological therapy for patients with kidney stones (PI: Hollingsworth)		
	NIH/NIDA R01	04/01/2019-03/31/2022	0.60 calendar
	Total Award Amount: \$1,076,400		
	Trajectories of Nonmedical Prescription Drug Misuse (PI: McCabe)		
	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: Hollingsworth)		
	AHRQ R01 HS024525-03	01/01/2019-09/29/2021	1.20 Calendar
	Total Award Amount: \$1,716,932		
	Assessing the Effects of Accountable Care Organizations Surgical Spending and Quality (PI: Hollingsworth)		
	UW Health	07/01/2015-08/31/2017	0.96 Calendar
	Accountable Care Organization Reporting Project (PI: Smith)		
	University of Wisconsin Survey Center	02/20/2015-08/31/2017	1.20 Calendar
	Sampling Design and Survey Data Analysis		

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: Greenberg)

**Pending Grants as Principal Investigator** NIH/NICHD R01 04/01/2021–03/31/2025 3.00 Calendar  
 Novel tools to Increase the Reliability and Reproducibility of Population Genetics Research

NIH/NIDA R21 04/01/2021–03/31/2023 2.40 Calendar  
 Novel Approaches to Adjusting for Population Heterogeneity and Representation in Neuroimaging Studies

**Pending Grants as Co-Investigator** NIH/NIMH R01 07/01/2021–06/30/2025 1.20 Calendar  
 Neural, Neurodevelopmental, and Behavioral Mechanisms of Psychopathology in the Transition from Adolescence to Early Adulthood: A Longitudinal Investigation

NIH/NHLBI R01 07/01/2021–06/30/2025 1.20 Calendar  
 Emergent Behavioral and Physiological Cardiovascular Health Risk Factors in the Transition from Adolescence to Adulthood: A Longitudinal Investigation

NSF 10/01/2020–09/30/2025 0.60 Calendar  
 HNDS-I: Decennial Census Linkage Project

NSF 06/01/2020–06/31/2023 0.60 Calendar  
 HNDS-I: Creating Complex, Dynamic Data on Human Networks at Scale

**Peer Reviewed Publications** \* Corresponding author; ‡ Student advised by YS

1. **Si Y**, Trangucci R, Gabry J and Gelman A (2020), “Bayesian Hierarchical Weighting Adjustment and Survey Inference”, *Survey Methodology (Forthcoming)*
2. **Si, Y** and Zhou, P<sup>‡</sup> (2020), “Bayes-raking: Bayesian Finite Population Inference with Known Margins”, *Journal of Survey Statistics and Methodology (Forthcoming)*
3. **Si, Y** (2019), “Model-based Inferences”, *SAGE Research Methods Foundations*
4. Wang, J<sup>‡</sup>, Jin, Y and **Si, Y** (2018), “Statistical Inference of Non-probability based Web Surveys”, *Statistics and Decision (Chinese)*, 18, 10–14
5. Makela, S<sup>‡</sup>, **Si, Y**<sup>\*</sup> and Gelman, A (2018), “Bayesian Inference under Cluster Sampling with Probability Proportional to Size”, *Statistics in Medicine*, 37(26), 3849–3868
6. Schumacher, JR, Neuman, HB, Chang, GJ, Kozower, BD, Stephen, E, Meng, Y, Vanness, DJ, **Si, Y**, Jacobs, EA, Francescatti, AB, Spears, P, Havlena, J, Ades oye, T, McKellar, D, Winchester, D and Greenberg, CC (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
7. DuGoff, EH, Cho, J, **Si, Y** and Pollack, C (2018), “Geographic Variations in Physician Relationships Over Time: Implications for Care Coordination”, *Medical Care Research & Review*, 75(5)

8. Schumacher, JR, Neuman, HB, Zhang, Y, Meng, Y, Vanness, DJ, **Si, Y**, Burnside, ES, Ruddy, KJ, Partridge, AH, Schrag, D, Edge, SB, Jacobs, EA, Havlena, J, Francescatti, AB, Winchester, D, McKellar, D, Spears, P, Kozower, BD, Chang, GJ, and Greenberg, CC (2017), “Asymptomatic distant recurrence detection and survival in early stage breast cancer: A nationally representative study”, *Journal of Clinical Oncology*, 35 (15) 6520–6520
9. Neuman, HB, Schumacher, JR, Francescatti, AB, Adesoye, T, Edge, SB, Burnside, ES, Vanness, DJ, Yu, M, **Si, Y**, McKellar, D, Winchester, DP and Greenberg, CC (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
10. **Si, Y**, Reiter, JP and Hillygus, S (2016), “Bayesian latent pattern mixture models in panel studies with refreshment samples”, *The Annals of Applied Statistics*, 10(1), 118–143
11. Early, D, Berg, J, Alicea, S, **Si, Y**, Aber, J, Ryan, R and Deci, E (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
12. **Si, Y**, Pillai, N and Gelman, A (2015), “Bayesian nonparametric weighted sampling inference”, *Bayesian Analysis*, 10(3), 605–625
13. **Si, Y**, Reiter, JP and Hillygus, S (2015), “Semi-parametric selection models for potentially non-ignorable attrition in panel studies with refreshment samples”, *Political Analysis*, 23, 92–112
14. Makela, S<sup>‡</sup>, **Si, Y** and Gelman, A (2014), “Statistical graphics for survey weights”, *Journal of Revista Columbiana De Estadística*, 37, 285–295
15. **Si, Y** and Reiter, JP (2013), “Nonparametric Bayesian multiple imputation for incomplete categorical variables in large-scale assessment surveys”, *Journal of Educational and Behavioral Statistics*, 38, 499–521
16. Deng, Y, Hillygus, S, Reiter, JP, **Si, Y** and Zheng, S (2013), “Handling attrition in longitudinal studies: The case for refreshment samples”, *Statistical Science*, 22, 238–256
17. **Si, Y** and Reiter, JP (2011), “A comparison of posterior simulation and inference by combining rules for multiple imputation”, *Journal of Statistical Theory and Practice*, 5(2), 335–347

**Book Chapters** Makela, S<sup>‡</sup>, **Si, Y** and Gelman, A (2016), “Graphical visualization of polling results”, in *Oxford Handbook on Polling and Polling Methods*, edited by Lonna Atkeson and Michael Alvarez

**Software Development** Gelman, A, Hill, J, Su, Y, Yajima, M, Pittau, M, Goodrich, B, **Si, Y**, Kropko, J (2015), R package “mi” for missing data imputation

**Other Publications**

1. Kennedy L, Basse G, Gelman A, Imbens G, **Si Y**, Rothenhausler D, and Spiess J (2020), “Lessons learned and remaining challenges for online seminars and conferences”, *Amstat News*
2. **Si, Y** and Gelman, A (2014), “Survey Weighting for New York City Longitudinal Survey on Poverty Measure”, *New York City Longitudinal Study of Poverty*

3. **Si, Y** and Gelman, A (2014), “Methodology for Constructing Primary Caregiver Weights for Wave 3-5 Fragile Families and Child Wellbeing Study”, *Fragile Families and Child Wellbeing Study*
4. **Si, Y** and Gelman, A (2014), “Methodology for Constructing Mother, Father and Couple Weights for Core Telephone Survey Wave 5”, *Fragile Families and Child Wellbeing Study*
5. **Si, Y** and Gelman, A (2014), “Methodology for Constructing Child Weights for Wave 3-5 Fragile Families and Child Wellbeing Study”, *Fragile Families and Child Wellbeing Study*
6. Wimer, C, Garfinkel, I, Gelblum, M, Lasala, N, **Si, Y**, Teitler, J and Waldfogel, J (2013) “The New York City Poverty and Disadvantage Tracker”, *Robin Hood Foundation*
7. Deci, E, Early, D, Aber, J, Ryan, R, Berg, J, Alicea, S, and **Si, Y** (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*
8. **Si, Y** and Reiter, JP (2010), “A new approach to protect confidentiality for census microdata with missing values”, *In JSM Proceedings, Survey Research Methods Section. Alexandria, VA: American Statistical Association*

**Papers Under Review**

1. Constante K, Huntley E, **Si Y**, Wagner C, Schillinger E, and Keating D (2020), “Conceptualizing Protective Family Context and Its Effect on Substance Use: Comparisons across Diverse Ethnic-Racial Youth”, *Substance Abuse*
2. Moloci N, **Si Y**, Norton M, Ryan A and Hollingsworth J (2020), “Potential Shared Savings Losses with Early Medicare Shared Savings Program Exit”, *Journal of General Internal Medicine*
3. **Si Y**, Palta M and Smith M (2019), “Bayesian Profiling Multiple Imputation for Electronic Health Records”, *Annals of Applied Statistics* (revision submitted)
4. Schumacher JR, Neuman HB, Meng Y, Vanness DJ, **Si Y**, Burnside ES, Ruddy KJ, Partridge AH, Schrag D, Edge SB, Zhang Y, Jacobs EA, Havlena J, Francescatti AB, Winchester D, McKellar D, Spears P, Kozower, BD, Chang GJ, and Greenberg CC (2019), “Asymptomatic Recurrence Detection and Survival in Stage II-III Breast Cancer”, *Journal of the National Cancer Institute* (revision requested)

**Peer Reviewed-Presentations**

1. Schumacher JR, Neuman HB, Zhang Y, Yu M, Vanness DJ, **Si Y**, Burnside ES, Ruddy KJ, Partridge AH, Schrag D, Edge SB, Jacobs EA, Havlena J, Francescatti AB, Winchester DP, McKellar DP, Spears PA, Chang GJ, Kozower BD, Greenberg CC (2017), “Asymptomatic distant recurrence detection and survival in early stage breast cancer: A nationally representative study”, *American Society of Clinical Oncology*
2. Neuman HB, Schumacher JR, Francescatti AB, Adesoye T, Yu M, **Si Y**, McKellar D, Winchester DP and Greenberg CC (2016), “Utility of Clinical Breast Exams in Detecting Local-Regional Recurrence in Women with a Personal History of High-risk Breast Cancer”, *American Society of Clinical Oncology*

3. Schumacher JR, Neuman HB, Burnside ES, Havlena J, Adesoye T, Francescatti AB, Yu M, Si Y, Vanness DJ, Winchester D, McKellar D, Edge SB, Spears P and Greenberg CC (2016), “A Nationally Representative Study of the Overuse of Advanced Imaging for Follow-up Surveillance Following Breast Cancer Diagnosis and Treatment”, AcademyHealth, MA
4. McCarty A and Si Y (2015), “Racial/Ethnic Differences in Breast-Feeding and Its Consequences for Childhood Obesity”, The Conference of Research Committee 28 on Social Stratification and Mobility of the International Sociological Association, PA
5. Wimer C, Garfinkel I, Gelblum M, Blanco NL, Si Y, Teitler J and Waldfogel J (2013), “Income poverty and material hardship in New York City: Evidence from a new household survey”, Population Association of America Annual Meeting, LA

**Invited  
Presentations**

- MiCDA Symposium, University of Michigan, MI, May. 2020*
- MIDAS Working Group for Selection Bias and Missing Data in COVID-19 Population Studies, University of Michigan, MI, Apr. 2020*
- MPSM/JPSM Seminar Series (online), University of Michigan, MI, Apr. 2020*
- Conference on Multilevel Regression and Poststratification (online), New York, NY, Apr. 2020*
- Data Anonymization in the 21st century, Data Privacy Day, The ICPSR Council meeting, Ann Arbor, MI, Mar. 2020*
- Webinar, Survey Methods and Research Section, American Statistical Association, Oct. 2019*
- The Dialogue between Big Data and Survey Data in Social Science Research, Peking University, Beijing, China, Sep. 2019*
- School of Statistics, Renmin University of China, Beijing, China, Sep.2019*
- Conference on Current Trends in Survey Statistics-A Satellite Conference to the 62nd ISI World Statistics Congress, National University of Singapore, Singapore, Aug. 2019*
- Junior Fellows Seminar, Joint Program in Survey Methodology, University of Maryland, MD, Jul. 2019*
- The ICSA Applied Statistics Symposium, Raleigh, NC, Jun. 2019*
- Bayesian Causal Inference Workshop, Columbus, OH, Jun. 2019*
- Department of Biostatistics, University of Michigan, MI, Oct. 2018*
- Junior Fellows Seminar, Joint Program in Survey Methodology, University of Maryland, MD, Jul. 2018*
- ISBA 2018 Meetings, Edinburgh, UK, Jun. 2018*
- MPSM/JPSM Seminar Series, University of Michigan, MI, Jan. 2018*
- Department of Urology, University of Michigan, MI, Jan. 2018*
- Center for Youth & Social Issues, University of Michigan, MI, Jan. 2018*
- Joint Statistical Meetings, Baltimore, MD, Aug. 2017*
- 2016 Conference for Women in Statistics and Data Science, NC, Oct. 2016*
- Survey Research Center, Institute of Social Research, University of Michigan, MI, Sept. 2016*
- Department of Statistics, University of Missouri, MO, Mar. 2016*
- ENAR meeting, Austin, TX, Mar. 2016*

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**Contributed  
Presentations**

*OpenDP Community Meeting, May. 2020*

*Value-based Purchasing ACO Working Group Presentation, University of Michigan, Oct. 2019*

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

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

*QMP/SMP Methodological Seminar, University of Michigan, Feb. 2019*

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

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

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

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

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

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

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

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

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



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

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

<b>Teaching Experience</b>	<b>University of Michigan</b>	<b>Instructor</b>
	SURVMETH 625 Applied Sampling	<i>Winter 2018, 2019, 2020</i>
	SURVMETH 687 Applications of Statistical Modeling	<i>Fall 2018, 2019</i>
	SURVMETH 614 Analysis Methods for Complex Sample Survey Data	<i>Summer 2018, 2019, 2020</i>
	<b>University of Wisconsin-Madison</b>	<b>Instructor</b>
	BMI/PHS 651 Advanced Regression Methods	<i>Fall 2015, 2016</i>
	PHS 805 Epidemiologic Methods (Guest)	<i>Fall 2015, 2016</i>
	STAT 992 Research Topics in Predictive Modeling for Clinical Biostatistics	<i>Fall 2015</i>
	SIBS 546 Biostat Practicum	<i>Summer 2015</i>
	BMI/PHS 652 Missing Data: Topics and Tools	<i>Spring 2015</i>
	BMI/PHS 651 Advanced Regression Methods (Guest)	<i>Fall 2014</i>
	BMI/PHS 551 Introduction to Biostatistics (Guest)	<i>Fall 2014</i>
	<b>Harvard University</b>	<b>Guest Lecturer</b>
	Missing Data Methods	<i>Spring 2014</i>
	<b>Columbia University</b>	<b>Guest Lecturer</b>
	Sample Surveys	<i>Fall 2013</i>
	<b>Duke University</b>	<b>Teaching Assistant</b>
	Bayesian Statistics and Modern Computing	<i>Spring 2011</i>
	Generalized Linear Models	<i>Fall 2010</i>
	Probability/Statistical Models	<i>Fall 2010</i>
	Data Analysis and Statistical Inference	<i>Fall 2009</i>

**Student advising** • Research Assistants:

Zikai Lin, MS, Department of Biostatistics, University of Michigan, 2019-

Katherine Li, MS, Department of Biostatistics, University of Michigan, 2018-

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

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

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

Micha Fischer, PhD, Survey Methodology Program, 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

Jun Wang, PhD, School of Statistics, Renmin University of China, 2017

• Academic Advising:

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

Shiyu Zhang, PhD, Survey Methodology Program, University of Michigan, 2018-  
Hanh Bui, MS, Survey Methodology Program, University of Michigan, 2018-  
Ilse Paniagua, MS, Survey Methodology Program, University of Michigan, 2018-2020  
Ruixuan Li, MS, Survey Methodology Program, 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 Dissertation Committee:

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  
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:

Ali Rafei, PhD, Survey Methodology Program, University of Michigan, chair, 2019  
Fernanda Alvarado-Leiton, PhD, Survey Methodology Program, 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**

- Associate Editor for:

Journal of Official Statistics

- Grant reviewer for:

Office of Research Faculty Grants and Awards, University of Michigan, 2017  
NSF-MMS, 2016

- Invited Session Organizer for:

“Evolving survey inference in the big data era: Challenges and opportunities”, Joint Statistical Meetings, 2019

“Recent development of Bayesian methods in survey sampling”, Joint Statistical Meetings, 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

- Working group leader for:  
Methodology and tool development for selection bias and missing data in Covid-19 population studies, MIDAS, University of Michigan, 2020-
- Vice president for ASA Wisconsin Chapter, 2016
- Chair for:  
Qualification exam, Michigan Program for Survey Methodology, University of Michigan, 2018-
- Committee for:  
Master admission, Survey Methodology Program, University of Michigan, 2019-  
Seminar organization, Survey Research Center, University of Michigan, 2018-  
PhD admission, Survey Methodology Program, University of Michigan, 2017-2019  
Department seminar, Biostatistics & Medical Informatics, University of Wisconsin, 2015-2017
- Organizing committee member for:  
Conference on Multilevel Regression and Poststratification, Columbia University, 2020  
Wisconsin ASA Chapter Madison Networking and Planning Luncheon, 2016  
The 7th International Forum on Statistics of Renmin University of China, 2016
- Reviewing committee member for:  
Student Paper Competition, ICHPS, 2019  
ICML, 2016  
AISTATS, 2016  
Student Paper Competition, Joint Statistical Meetings, 2015
- Session Chair for:  
Joint Statistical Meetings, 2011, 2013, 2015, 2019  
ENAR meeting, 2015, 2016, 2017
- Faculty judge for:  
Michigan Student Symposium for Interdisciplinary Statistical Sciences, 2020
- Referee for:  
*Journal of the American Statistical Association* (3 articles)  
*Biometrika*(2 articles)  
*Annals of Applied Statistics* (5 articles)  
*Biometrics* (2 articles)  
*Bayesian Analysis* (4 articles)  
*Journal of the Royal Statistical Society-Series B*  
*Journal of Computational and Graphical Statistics*  
*The American Statistician*  
*STAT*  
*Survey Methodology*  
*Statistical methods in Medical Research*  
*Statistical Analysis and Data Mining* (2 articles)  
*Journal of Machine Learning Research*  
*American Journal of Public Health*

*Journal of Official Statistics* (2 articles)  
*Statistica Sinica*  
*Journal of Educational and Behavioral Statistics*  
*Statistics in Medicine*  
*Journal of Official Statistics*  
*American Journal of Epidemiology*  
*Scandinavian Journal of Statistics Journal of Survey Statistics and Methodology* (3 articles)  
*Sankhya A*  
*International Statistical Review* (2 articles)  
*Journal of Statistical Software*  
*Communications in Statistics–Theory and Methods*  
*Statistics and Probability Letters*  
*Statistics and Computing*  
*Electronic Journal of Statistics*  
*Sociological Methods and Research*  
*Psychological Methods* (2 articles)  
*Journal of Probability and Statistics*  
*Spatial Statistics*  
*Journal of Computational and Applied Mathematics*  
*Public Health Reports*  
*Biometrical Journal*  
*Behavior Research Methods*  
*British Journal of Mathematics & Computer Science*  
*Methodology*  
*European Journal of Operational Research*  
*International Journal of Pattern Recognition and Artificial Intelligence*  
*Population Research and Policy Review*  
*Health Services and Outcome Research Methodology IERI Monograph Series*

**Certificates**

- University of Michigan American Accent Program, 2019
- Blend@UW Course Design Program, 2015
- Wisconsin Idea Seminar, 2015

**Membership**

- 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-)