

**Deji Suolang**  
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## Education

- 2021–2026\*     **University of Michigan**, Ann Arbor, MI  
*Ph.D., Survey and Data Science*  
Advisor: Dr. Brady T. West  
Thesis: Combining Multiple Data Sources through an Imputation-Based Approach: Leveraging Wearable Sensor Data to Strengthen Survey Self-Reports
- 2018–2020     **University of Michigan**, Ann Arbor, MI  
*M.S., Survey and Data Science*
- 2017            **Utrecht University**, Utrecht, the Netherlands  
*Exchange program, Social and Behavioral Sciences*
- 2014–2018     **Nanjing University**, Nanjing, China  
*B.A., Sociology (with Distinction)*

## Professional Experience

- 2021–Present   **University of Michigan**, Ann Arbor, MI  
*Graduate Student Research Assistant*  
Survey Research Center, Institute for Social Research
- 2024            **American Institutes for Research**, Arlington, VA  
*Doctoral Researcher Intern*  
NAEP Psychometric and Statistical Methods
- 2020–2021     **Johns Hopkins Medicine**, Baltimore, MD  
*Survey Statistician (Research Assistantship)*  
Department of Neurology
- 2018–2020     **University of Michigan**, Ann Arbor, MI  
*Research Associate*  
Survey Research Center, Institute for Social Research

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\*Expected.

## Publications

### In Preparation

1. **Suolang, D.**, Yang, J., Miller, L., Rodhouse, J. R., Page, E. T., Si, Y., & West, B. T. (2025). Weighting Adjustment and Multiple Imputation for Addressing Nonresponse in a Multi-Day Diary Survey. *Journal of Survey Statistics and Methodology* (In Revision).
2. **Suolang, D.**, & West, B. T. (2025). Leveraging Wearable Sensor Data to Enhance Survey Self-Reports: A Mass Imputation Approach. *Journal of Survey Statistics and Methodology* (Under Review).
3. **Suolang, D.**, & West, B. T. (TBD). Assessing the Generalizability of Imputation-Based Integration of Wearable Sensor Data and Survey Self-Reports: Evidence from a Simulation Study. *Journal TBD*.

### Peer-Reviewed Articles

1. Wagner, J., West, B. T., Kim, B., **Suolang, D.**, Engstrom, C., & Sinibaldi, J. (2025). Using a Stopping Rule to Optimize Cost-Quality Tradeoffs in a Large, Mixed-Mode Survey: A Simulation Study. *Journal of Official Statistics*, 41(1), 329-364.
2. Gupta, S., Chen, B. J., **Suolang, D.**, Cooper, R., Gottesman, R., & Faigle, R. (2023). Advance Directives Among Community-Dwelling Stroke Survivors (P6-5.016). *PLOS ONE*, 18(10).
3. Chen, B. J., **Suolang, D.**, Frost, N., & Faigle, R. (2022). Practice Patterns and Attitudes Among Speech Language Pathologists Treating Stroke Patients with Dysphagia: A Nationwide Survey. *Dysphagia*, 37(6).
4. **Suolang, D.**, Chen, B. J., & Faigle, R. (2022). Temporal Trends in Racial and Ethnic Disparities in Palliative Care Use After Intracerebral Hemorrhage in the United States. *Stroke*, 53(3).
5. **Suolang, D.**, Chen, B. J., Wang, N. Y., Gottesman, R. F., & Faigle, R. (2021a). Temporal Trends in Stroke Thrombolysis in the U.S. by Race and Ethnicity, 2009–2018. *JAMA*, 326(17), 1741–1743.
6. **Suolang, D.**, Chen, B. J., Wang, N. Y., Gottesman, R. F., & Faigle, R. (2021b). Geographic and Regional Variability in Racial and Ethnic Disparities in Stroke Thrombolysis in the United States. *Stroke*, 52(12).
7. He, G., Chen, Y., Chen, B., Wang, H., Shen, L., Liu, L., **Suolang, D.**, ..., & Min, Z. (2018). Using the Baidu search index to predict the incidence of HIV/AIDS in China. *Scientific Reports*, 8(1).

## Conference Presentations

1. **Suolang, D.**, & West, B. T., How Generalizable Is Imputation-Based Integration of Wearable and Survey Data? Evidence From a Simulation Study (November 2025). *MAPOR*, Chicago, IL.
2. **Suolang, D.**, & West, B. T., Assessing the Generalizability of Imputation-Based Integration of Wearable Sensor Data and Survey Self-Reports: A Simulation Study (July 2025). *ESRA*, Utrecht, the Netherlands.
3. **Suolang, D.**, & West, B. T., Leveraging Wearable Sensor Data to Enhance Survey Self-Reports: A Mass Imputation Approach (May 2025). *AAPOR*, St. Louis, MO.
4. **Suolang, D.**, Bailey, P., Rutkowski, L., Handling Missing Contextual Data in Large-Scale Assessments: A Multiple Imputation Strategy (April 2025). *NCME*, Denver, CO.
5. **Suolang, D.**, Yang, J., Miller, L., Rodhouse, J. R., Page, E. T., Si, Y., & West, B. T., Weighting Adjustment and Multiple Imputation for Addressing Nonresponse in a Multi-Day Diary Survey (May 2024). *AAPOR*, Atlanta, GA.
6. Wagner, J., West, B. T., Kim, B., **Suolang, D.**, Engstrom, C., & Sinibaldi, J., How Different Modeling Choices Impact the Performance of Stopping Rules in a Longitudinal Study (May 2023). *AAPOR*, Philadelphia, PA.

7. **Suolang, D.**, Effects of Front-Loaded and Escalating Incentives on Response Rates and Response Quality in Election Surveys (May 2021). *AAPOR*, Los Angeles, CA (remote).
8. **Suolang, D.**, West, B. T., Wagner, J., Almirall, D., Toward the Optimization of Responsive and Adaptive Survey Design (February 2020). *MSSISS*, Ann Arbor, MI.
9. **Suolang, D.**, Ketenci, K., Predicting Presidential Election Trends: A Public Opinion Survey Using Web-Sourced Data (November 2020). *BigSurv20*, Utrecht, the Netherlands (remote).
10. Hu, M., He, W., **Suolang, D.**, Zhang, S., West, B. T., Kirlin, J. A., & Zhang, X., Response Patterns in a Multi-Day Diary Survey: Implications for Adaptive Survey Design (May 2019). *AAPOR*, Toronto, Canada.

## Projects

2025–Present	<p><b>Leveraging Contextual Data to Improve the Granularity of Sampling Frames and Estimation</b></p> <p>Developed sampling frames that integrate contextual and commercial data from public repositories, including features extracted from aerial imagery using Python deep learning tools. Evaluated how these enriched frames improved coverage and the precision of small area estimates.</p>
2022–Present	<p><b>Combining Multiple Data Sources for Better Estimation: Leveraging Wearable Sensor Data to Strengthen Self-Reports in Health Surveys (Dissertation project)</b></p> <p>Developed a mass-imputation method to integrate wearable sensor and survey self-report data, improving measurement accuracy and strengthening inference for population health research. Addressed key methodological challenges including non-probability samples, selection bias, and complex survey design.</p>
2023–2025	<p><b>Survey Modernization and Statistical Methods for FoodAPS (USDA-funded)</b></p> <p>Applied weighting and imputation methods to reduce nonresponse and measurement error in a national food acquisition survey, providing policymakers with more reliable evidence for nutrition-related funding decisions and informing improvements in future survey design.</p>
2024	<p><b>Advancing Missing Data Methods for NCES Large-Scale Assessments (NCES-funded)</b></p> <p>Designed tailored imputation strategies to address missing survey and latent outcome data in large-scale assessments, enhancing data quality and supporting evidence-based evaluation of educational and health programs.</p>
2021–2022	<p><b>Modernization and Adaptive Design in Longitudinal Surveys (NCSES-funded)</b></p> <p>Simulated adaptive interventions to optimize cost-quality tradeoffs in longitudinal surveys, producing recommendations to reduce attrition, minimize bias, and enhance the reliability of program evaluation and workforce data.</p>
2020–2021	<p><b>Racial Inequities in Healthcare Attitudes and Utilization in the U.S. (NIH-funded)</b></p> <p>Analyzed surveys, administrative records, medical claims, and qualitative data to identify disparities in healthcare utilization, patient experiences, and outcomes, generating evidence to guide improvements in healthcare delivery and inform policy decisions.</p>

## Consulting

2025	<b>Kelsey Museum of Archaeology</b>
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Designed and executed a visitor experience survey to assess perceptions and satisfaction. Provided insights that informed leadership decisions on exhibit planning and enhanced strategies for visitor learning and engagement.

- 2020      **Starboard Corp. (Supply Chain SaaS in Michigan)**  
Conducted employee and client survey research to evaluate workplace experience and software usability, identifying behavioral patterns and pain points that guided leadership decisions on product development and organizational adoption.
- 2020      **Python–NumPy Steering Council**  
Designed and launched the first survey of NumPy contributors and users, generating insights on behavior, engagement, and experience that guided decisions on support resources in the open-source ecosystem.

## Awards & Honors

- 2025      Winner, MAPOR Allan L. McCutcheon Award for Best Methodology Paper
- 2025      Winner, AAPOR Seymour Sudman Student Paper Award
- 2025      Best Presentation Award, Michigan Student Symposium for Interdisciplinary Statistical Sciences
- 2025      Rackham Travel Award, ESRA Annual Conference
- 2024      Daniel Katz Dissertation Fellowship
- 2024      **Note: This \$25,000 research grant was part of the ISR Next Generation Awards.**
- 2024      Rackham Travel Award, JSM Annual Conference
- 2024      MPSDS Travel Award, AAPOR Annual Conference
- 2024      Rackham Travel Award, AAPOR Annual Conference
- 2023      MAPOR Student Support Award
- 2023      Rackham Travel Award, ESRA Annual Conference
- 2020      Best Methods Award, Poster Competition, BigSurv20 Conference
- 2020      Best Poster Award, Michigan Student Symposium for Interdisciplinary Statistical Sciences
- 2019      MPSM Travel Award, APA Annual Conference
- 2016      Honorable Mention, Nanjing University Student of the Year

## Teaching Experience

### Graduate Student Instructor

- 2022      SURVMETH 621 Data Collection I
- 2022      SURVMETH 632 Cognition, Communication, and Survey Measurement
- 2023      SURVMETH 622 Data Collection II
- 2023      SURVMETH 625 Applied Sampling

### Short Courses and Tutorials

- 2022      Guest Lecturer, Tutorial on Qualtrics Programming (MPSDS)

## Professional Memberships

2025-Present	National Council on Measurement in Education
2023-Present	American Statistical Association
2022-Present	European Survey Research Association
2020-Present	Midwest Association for Public Opinion Research
2019-Present	American Association for Public Opinion Research

## Committees

2025	Project Lead, STATCOM (Statistics in the Community) at the University of Michigan
2022-2023	Organizing Committee, Responsible for the 17th Annual Michigan Student Symposium in Interdisciplinary Statistical Sciences (MSSISS, March 2023)

## Service

2026	Peer reviewer for <i>Scientific Reports</i>
2025	Reviewer for abstract submissions, AAPOR Annual Conference
2025	Peer reviewer for <i>BMC Nephrology</i>
2025	Peer reviewer for <i>Discover Applied Sciences</i>
2024	Moderator, AAPOR Annual Conference, Innovations in Statistical Methods for Quality Improvement
2024	Reviewer for abstract submissions, AAPOR Annual Conference
2023	Moderator, AAPOR Annual Conference, New Applications of Multiple Imputation and Model-Based Methods to Survey Research
2022	Moderator, AAPOR Annual Conference, Using Social Media and Big Data to Predict COVID Beliefs

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