# Michael W. Robbins, Ph.D.

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## Employment History

2026 – ···· **University of Michigan** (Ann Arbor, MI), *Survey Research Center, ISR*
- Research Advisor, Panel Study of Income Dynamics

2013 – 2025 **RAND Corporation** (Pittsburgh, PA)
- Senior Statistician (2021-2025)
- Statistician (2015-2021)
- Associate Statistician (2013-2015)

2017 – 2025 **Pardee RAND Graduate School** (Santa Monica, CA)
- Professor

2011 – 2013 **University of Missouri, Columbia** (Columbia, MO), *Dept. of Statistics*
- Assistant Professor

2009 – 2011 **National Institute of Statistical Sciences** (Washington, DC)
- Postdoctoral Fellow

## Education

2009 **Ph.D., Clemson University** in Mathematical Sciences
Thesis: *Change-Point Analysis: Asymptotic Theory and Applications*
https://open.clemson.edu/all_dissertations/391

2006 **M.Sc., Clemson University** in Mathematical Sciences
Thesis: *Change-Point Tests for Precipitation Data*
https://open.clemson.edu/all_theses/42

2004 **B.S. Duke University** in Mathematics

**B.S. Duke University** in Economics

## Selected Grants and Funded Research (as PI or co-PI)

1. *A Multi-Phase Survey Strategy for Obtaining Representativeness of Big Data*, National Science Foundation (DIIS/BIGDATA), Award #1837959, **$991,127**, Jan. 2019 – Sept. 2024, (PI: Robbins), URL: https://www.nsf.gov/awardsearch/show-award?AWD_ID=1837959.

2. *Pew Retirement Savings Project*, Pew Charitable Trusts, Award #20181117, **$759,569**, Aug. 2019 – Sept. 2021, (PI: Grant; co-PI: Robbins).

3. *Data Fusion for Predicting Long-Term Program Impacts*, National Institutes of Health – National Institute on Aging, Grant #R21AG058123, **$380,529**, May 2018 – Apr. 2022, (PI: Robbins), URL: https://reporter.nih.gov/search/2s47y3wlx0CITlhvi6CdDA/project-details/9435493.

4. *An Innovative Approach for Measuring Performance of Border Security Programs*, RAND – HSOAC Director's Innovation Awards, **$50,000**, May 2018 – Sept. 2018, (PIs: Chang and Robbins).

5. *Expand ATP and ASLP Panels in Selected States*, Bill & Melinda Gates Foundation, Grant #OPP1154203, **$6,284,026**, Aug. 2016 – Apr. 2019, (PIs: Grant, McCombs, and Robbins).

6. *An R Package for SCM with Microlevel Data*, RAND Center for Causal Inference, **$12,500**, Mar. 2017 – Sept. 2017, (PI: Robbins).

7. *Weighted Methods for Imputation in Complex Survey Data*, University of Missouri Research Board (system-wide), **$10,000**, Apr. 2013 – Mar. 2014, (PI: Robbins).

8. *Improvement of the Agricultural Resource Management Survey (ARMS) Methodology Phase 3 Imputation*, U.S. Department of Agriculture, Award #58-3AEU-2-0065, **$16,440**, Jun. 2012 – Sept. 2012, (PI: Robbins).

## Research Publications

### Journal Articles

1. E. Li, J. Rollison, **M. Robbins**, D. Shinnick, and S. A. Miner, "Contraceptive knowledge and related factors among male and female U.S. veterans of reproductive age," *Contraception*, 2026, In press. DOI: 10.1016/j.contraception.2026.111511.

2. B. Ghosh-Dastidar, **M. W. Robbins**, E. M. Friedman, N. Qureshi, and R. A. Shih, "Medicaid home- and community-based services long-term care expenditures: Evaluation of the Balancing Incentive Program," *Medical Care*, 2026, In press. DOI: 10.1097/MLR.0000000000002333.

3. M. Pollard, **M. W. Robbins**, and M. G. Griswold, "A demonstration of propensity score weighting to adjust a social media nonprobability sample survey of political attitudes," *Public Opinion Quarterly*, vol. 90, pp. 536–565, 2026. DOI: 10.1093/poq/nfaf071.

4. J. Rollison, S. A. Miner, E. Li, **M. W. Robbins**, D. Shinnick, and D. Schlang, "Exploring contraceptive care and access experiences of veterans," *RAND Health Quarterly*, vol. 13, no. 2, p. 8, 2026. URL: https://pubmed.ncbi.nlm.nih.gov/41821669/.

5. M. G. Griswold, **M. W. Robbins**, and M. Pollard, "Stay tuned: Improving sentiment analysis and stance detection using large language models," *Political Analysis*, 2025. DOI: 10.1017/pan.2025.10023.

6. R. Neil, B. Ghosh Dastidar, B. Kilmer, **M. W. Robbins**, and K. Warren, "The impact of drug possession decriminalization on arrests: A race-specific synthetic control analysis of Oregon's Measure 110," *Journal of Quantitative Criminology*, 2025. DOI: 10.1007/s10940-025-09632-8.

7. **M. W. Robbins** and L. Burgette, "Resampling methods with multiply imputed data," *Biometrika*, vol. 112, no. 4, asaf059, 2025. DOI: 10.1093/biomet/asaf059.

8. **M. W. Robbins**, E. Treyger, and J. Chang, "Quasi-experimental evaluations of border-enforcement measures," *Journal of Homeland Security and Emergency Management*, vol. 22, pp. 185–222, 2025. DOI: 10.1515/jhsem-2020-0083.

9. **M. W. Robbins**, "Population displacement from Puerto Rico to U.S. states following Hurricane Maria," *Mathematical Population Studies*, vol. 32, pp. 41–67, 2025. DOI: 10.1080/08898480.2024.2430784.

10. J. S. Ringel, J. Lejeune, J. Phillips, **M. Robbins**, M. A. Bradley, J. Wolf, and M. J. Timmer, "Understanding veterans in New York: A needs assessment of veterans recently separated from the military," *RAND Health Quarterly*, vol. 12, p. 12, 2025. URL: https://pmc.ncbi.nlm.nih.gov/articles/PMC11916079/.

11. E. C. Wong, M. Waymouth, R. K. McBain, T. L. Schell, G. Hindmarch, J. Vidal Verástegui, J. Welch, R. L. Beckman, **M. W. Robbins**, C. C. Engel, and K. L. Gore, "Perceptions of mental health confidentiality policies and practices in the US military," *RAND Health*

*Quarterly*, vol. 12, p. 11, 2025.
URL: https://pmc.ncbi.nlm.nih.gov/articles/PMC11916082/.

12 **M. W. Robbins**, S. Bauhoff, and L. Burgette, "Data fusion for predicting long-term program impacts," *Statistics in Medicine*, vol. 43, pp. 3702–3722, 2024. DOI: 10.1002/sim.10147.

13 D. McCaffrey, B. A. Griffin, **M. Robbins**, Y. Chakraborti, D. Coffman, and B. Vegetabile, "Estimating generalized propensity scores with survey and attrition weighted data," *Statistics in Medicine*, vol. 43, pp. 2183–2202, 2024. DOI: 10.1002/sim.10039.

14 **M. Robbins**, "Joint imputation of general data," *Journal of Survey Statistics and Methodology*, vol. 12, pp. 183–210, 2024. DOI: 10.1093/jssam/smad034.

15 T. Nuckols, M. Dworsky, C. Conlon, **M. Robbins**, D. Benner, J. Lai, S. Seabury, R. Seelam, and S. M. Asch, "The quality of occupational healthcare for carpal tunnel syndrome, healthcare expenditures, and disability outcomes: A prospective observational study," *Muscle and Nerve*, vol. 67, pp. 52–62, 2023. DOI: 10.1002/mus.27718.

16 K. D. Shetty, **M. W. Robbins**, D. Saliba, K. N. Campbell, and C. L. Damberg, "Home health agency adoption of quality improvement interventions and association with performance," *Journal of the American Geriatrics Society*, vol. 27, pp. 544–551, 2021. DOI: 10.1111/jgs.17368.

17 K. D. Shetty, **M. W. Robbins**, A. Tolpadi, K. N. Campbell, A. M. Clancy, J. A. Whitley, N. Bodkin, M. Durham, and C. L. Damberg, "Actions to improve quality: Results from a national hospital survey," *The American Journal of Managed Care*, vol. 69, pp. 3273–3284, 2021. DOI: 10.37765/ajmc.2021.88793.

18 **M. W. Robbins**, B. Ghosh-Dastidar, and R. Ramchand, "Blending of probability and convenience samples as applied to a survey of military caregivers," *Journal of Survey Statistics and Methodology*, vol. 9, pp. 1114–1145, 2021. DOI: 10.1093/jssam/smaa037.

19 S. Davenport, **M. Robbins**, M. Cerda, A. Riveral, and B. Kilmer, "Associations between a zero tolerance BAC law and traffic crashes and fatalities: Insights from a novel synthetic control method," *Addiction*, vol. 116, pp. 1054–1062, 2021. DOI: 10.1111/add.15231.

20 B. G. Vegetabile, B. A. Griffin, D. Coffman, M. Cefalu, **M. W. Robbins**, and D. McCaffrey, "Nonparametric estimation of population average dose-response curves using entropy balancing weights for continuous exposures," *Health Services and Outcomes Research Methodology*, vol. 21, pp. 69–110, 2021. DOI: 10.1007/s10742-020-00236-2.

21 **M. W. Robbins** and S. Davenport, "microsynth: Synthetic control methods with micro- and meso-level data in R," *Journal of Statistical Software*, vol. 97, pp. 1–31, 2021. DOI: 10.18637/jss.v097.i02.

22 **M. W. Robbins** and J. Hawes-Dawson, "The effect of incentives and mode of contact on the successful recruitment of teachers into survey panels," *Survey Practice*, vol. 13, no. 1, 2020. DOI: 10.29115/SP-2020-0013.

23 K. D. Shetty, A. Tolpadi, **M. W. Robbins**, E. A. Taylor, K. Campbell, and C. L. Damberg, "Nursing home responses to performance-based accountability: Results of a national survey," *Journal of the American Geriatrics Society*, vol. 68, pp. 1979–1987, 2020. DOI: 10.1111/jgs.16466.

24 K. D. Shetty, **M. Robbins**, D. Aragaki, A. Basu, C. Conlon, M. Dworsky, D. Benner, R. Seelam, and T. K. Nuckols, "The quality of electrodiagnostic tests for carpal tunnel syndrome: Implications for surgery, outcomes, and expenditures," *Muscle & Nerve*, vol. 62, pp. 60–69, 2020. DOI: 10.1002/mus.26874.

25 D. Aragaki, A. Basu, C. Conlon, K. S. Shetty, **M. Robbins**, D. Benner, and T. K. Nuckols, "Quality of electrodiagnostic testing for carpal tunnel syndrome: Adherence to quality measures," *Muscle & Nerve*, vol. 62, pp. 50–59, 2020. DOI: 10.1002/mus.26858.

26 **M. W. Robbins**, "A fully flexible changepoint test for regression models with stationary errors," *Statistica Sinica*, vol. 30, pp. 1657–1683, 2020. DOI: 10.5705/ss.202018.0275.

27 **M. W. Robbins**, B. A. Griffin, R. A. Shih, and M. E. Slaughter, "Robust estimation of the effect of neighborhood socioeconomic status on cognitive function," *Statistics in Medicine*, vol. 39, pp. 544–561, 2020. DOI: 10.1002/sim.8423.

28 S. M. Robson, S. Pezard, M. C. Lytell, C. S. Sims, J. Boon, J. Etchegaray, **M. Robbins**, D. Schulker, J. Sollinger, J. Campbell, A. Atler, S. Seabrook, D. L. Gebhart, T. A. Baker, E. K. Volpe, and K. A. Linnekohl, "Evaluation of the strength aptitude test and other fitness tests to qualify Air Force recruits for physically demanding specialties," *RAND Health Quarterly*, vol. 8, p. 8, 2019.
URL: https://pmc.ncbi.nlm.nih.gov/articles/PMC6557039/.

29 T. J. Fisher and **M. W. Robbins**, "A cheap trick to improve the power of a conservative hypothesis test," *The American Statistician*, vol. 73, pp. 232–242, 2019.
DOI: 10.1080/00031305.2017.1395364.

30 **M. W. Robbins**, G. Grimm, B. Stecher, and V. D. Opfer, "A comparison of strategies for recruiting teachers into survey panels," *SAGE Open*, vol. 8, p. 2 158 244 018 796 412, 2018.
DOI: 10.1177/2158244018796412.

31 K. A. Hepner, C. Farris, C. M. Farmer, P. O. Iyiewuare, T. Tanielian, A. Wilks, **M. Robbins**, S. M. Paddock, and H. A. Pincus, "Delivering clinical practice guideline-concordant care for PTSD and major depression in military treatment facilities," *RAND Health Quarterly*, vol. 7, p. 2, 2018.
URL: https://pmc.ncbi.nlm.nih.gov/articles/PMC5873520/.

32 T. Nuckols, C. Conlon, **M. Robbins**, M. Dworsky, J. Lai, C. P. Roth, B. Levitan, S. Seabury, R. Seelam, and S. M. Asch, "Quality of care and patient-reported outcomes among adults with work-associated carpal tunnel syndrome: A prospective observational study," *Muscle and Nerve*, vol. 57, pp. 896–904, 2018. DOI: 10.1002/mus.26041.

33 T. J. Fisher and **M. W. Robbins**, "An improved measure for lack of fit in time series models," *Statistica Sinica*, vol. 28, pp. 1285–1305, 2018. DOI: 10.5705/ss.202016.0286.

34 J. Saunders, **M. Robbins**, and A. Ober, "Implementing the Drug Market Intervention across multiple sites," *Criminology & Public Policy*, vol. 16, pp. 787–814, 2017.
DOI: 10.1111/1745-9133.12316.

35 D. W. Roblin, H. Liu, L. F. Cromwell, **M. Robbins**, B. E. Robinson, D. Auerbach, and A. Mehrotra, "Provider type and management of common visits in primary care," *American Journal of Managed Care*, vol. 23, pp. 225–231, 2017.
URL: https://www.ajmc.com/view/provider-type-and-management-of-common-visits-in-primary-care.

36 **M. W. Robbins**, J. Saunders, and B. Kilmer, "A framework for synthetic control methods with high dimensional, micro-level data: Evaluating a neighborhood-specific crime intervention," *Journal of the American Statistical Association*, vol. 112, pp. 109–126, 2017.
DOI: 10.1080/01621459.2016.1213634.

37 T. Nuckols, C. Conlon, **M. Robbins**, M. Dworsky, J. Lai, C. P. Roth, B. Levitan, S. Seabury, R. Seelam, and S. M. Asch, "Quality of care for work-associated carpal tunnel syndrome," *Journal of Occupational and Environmental Medicine*, vol. 59, pp. 47–53, 2017.
DOI: 10.1097/JOM.0000000000000916.

38 H. Liu, **M. Robbins**, A. Mehrotra, D. Auerbach, B. E. Robinson, L. F. Cromwell, and D. W. Roblin, "The impact of using mid-level providers in face-to-face primary care on health care utilization," *Medical Care*, vol. 55, pp. 12–18, 2017. DOI: 10.1097/MLR.0000000000000590.

39 C. Conlon, S. Asch, M. Hanson, A. Avins, B. Levitan, C. Roth, **M. Robbins**, M. Dworsky, S. Seabury, J. Adams, and T. Nuckols, "Assessing the value of high quality care for work-associated carpal tunnel syndrome in a large integrated healthcare system: Study design," *The Permanente Journal*, vol. 20, pp. 15–220, 2016. DOI: 10.7812/TPP/15-220.

40 **M. W. Robbins**, C. M. Gallagher, and R. B. Lund, "A general regression changepoint test for time series data," *Journal of the American Statistical Association*, vol. 111, pp. 670–683, 2016. DOI: 10.1080/01621459.2015.1029130.

41 **M. W. Robbins** and T. J. Fisher, "Cross-correlation matrices for tests of independence and causality between two multivariate time series," *Journal of Business and Economic Statistics*, vol. 33, pp. 459–473, 2015. DOI: 10.1080/07350015.2014.962699.

42 **M. W. Robbins**, "The utility of nonparametric transformations for imputation of survey data," *Journal of Official Statistics*, vol. 30, pp. 675–700, 2014. DOI: 10.2478/jos-2014-0043.

43 **M. W. Robbins** and T. K. White, "Direct payments, cash rents, land values, and the effects of imputation in U.S. farm-level data," *Agricultural and Resource Economics Review*, vol. 43, pp. 451–470, 2014. DOI: 10.1017/S1068280500005542.

44 **M. W. Robbins** and C. M. Setodji, "Causal inference using mixture models: A word of caution," *Medical Care*, vol. 52, pp. 770–772, 2014. DOI: 10.1097/MLR.0000000000000203.

45 R. Ramchand, T. Tanielian, M. Fisher, C. A. Vaughan, T. E. Trail, C. Epley, P. Voorhies, **M. Robbins**, E. Robinson, and B. Ghosh-Dastidar, "Hidden heroes: America's military caregivers—Executive summary," *RAND Health Quarterly*, vol. 4, p. 14, 2014. URL: https://pmc.ncbi.nlm.nih.gov/articles/PMC5052006/.

46 C. Gallagher, R. B. Lund, and **M. W. Robbins**, "Changepoint detection in climatic time series with long-term trends," *Journal of Climate*, vol. 26, pp. 4994–5006, 2013. DOI: 10.1175/JCLI-D-12-00704.1.

47 **M. W. Robbins**, S. K. Ghosh, and J. D. Habiger, "Imputation in high dimensional economic data as applied to the Agricultural Resource Management Survey," *Journal of the American Statistical Association*, vol. 108, pp. 81–95, 2013. DOI: 10.1080/01621459.2012.734158.

48 C. M. Gallagher, R. B. Lund, and **M. W. Robbins**, "Changepoint detection in daily precipitation data," *Environmetrics*, vol. 23, pp. 407–419, 2012. DOI: 10.1002/env.2146.

49 **M. W. Robbins**, C. M. Gallagher, R. B. Lund, and A. Aue, "Mean shift testing in correlated data," *Journal of Time Series Analysis*, vol. 32, pp. 498–511, 2011. DOI: 10.1111/j.1467-9892.2010.00707.x.

50 **M. W. Robbins** and T. K. White, "Farm commodity payments and imputation in the Agricultural Resource Management Survey," *American Journal of Agricultural Economics*, vol. 93, pp. 606–612, 2011. DOI: 10.1093/ajae/aaq166.

51 **M. W. Robbins**, R. B. Lund, C. M. Gallagher, and Q. Lu, "Changepoints in the North Atlantic tropical cyclone record," *Journal of the American Statistical Association*, vol. 106, pp. 89–99, 2011. DOI: 10.1198/jasa.2011.ap10023.

## Books and Chapters

1. T. J. Fisher, R. B. Lund, and **M. W. Robbins**, "A statistical analysis of North Atlantic tropical cyclone changes," in *Quantitative Approaches to Evaluating Climate Change Impacts*, ChapmanHall/CRC, 2020, pp. 25–42. DOI: 10.1201/9781351190831-2.

## Public RAND Reports

1. J. Rollison, S. A. Miner, E. Li, **M. Robbins**, D. Shinnick, and D. Schlang, "Exploring contraceptive care and access experiences of veterans," RAND Corporation, RR-A3828-1, Oct. 2025. URL: https://www.rand.org/pubs/research_reports/RRA3828-1.html.
2. J. C. Chang, **M. W. Robbins**, V. Barrer, and N. Maslov, "Benchmarking the Transportation Security Administration's covert Index testing program," RAND Corporation, RR-A2269-1, Apr. 2025.
URL: https://www.rand.org/pubs/research_reports/RRA2269-1.html.
3. E. C. Wong, M. Waymouth, R. K. McBain, T. L. Schell, G. Hindmarch, J. Vidal Verástegui, J. Welch, R. L. Beckman, **M. W. Robbins**, C. C. Engel, and K. L. Gore, "Perceptions of mental health confidentiality policies and practices in the U.S. military," RAND Corporation, RR-A2681-1, Dec. 2024.
URL: https://www.rand.org/pubs/research_reports/RRA2681-1.html.
4. J. S. Ringel, J. Lejeune, J. Phillips, **M. Robbins**, M. A. Bradley, J. Wolf, and M. J. Timmer, "Understanding veterans in New York: A needs assessment of veterans recently separated from the military," RAND Corporation, RR-A3304-1, Oct. 2024.
URL: https://www.rand.org/pubs/research_reports/RRA3304-1.html.
5. **M. W. Robbins**, R. Ramchand, G. Swabe, and K. Hyde, "America's post-9/11 military and veteran caregivers," RAND Corporation, RR-A3212-4, Sep. 2024.
URL: https://www.rand.org/pubs/research_reports/RRA3212-4.html.
6. H. H. Willis, D. G. Groves, J. S. Ringel, Z. Mao, S. Efron, M. Abbott, Z. H. Tariq, and **M. W. Robbins**, "Interactive Pardee RAND food-energy-water security index," RAND Corporation, TL-A2942-1, Jan. 2024.
URL: https://www.rand.org/pubs/tools/TLA2942-1.html.
7. Z. H. Tariq, H. H. Willis, and **M. W. Robbins**, "Pardee RAND food-energy-water index: Updates as of 2023," RAND Corporation, TL-165-RC, Oct. 2023.
URL: https://www.rand.org/content/dam/rand/pubs/tools/TLA2900/TLA2942-1/RAND_TLA2942-2.pdf.
8. B. Boudreaux, D. Yeung, R. Steratore, T. Goode, N. Kalra, S. Newberry, **M. Robbins**, N. Henriquez Sanchez, K. Scholl, V. Smith, and K. Warren, "Public perceptions of artificial intelligence for homeland security," RAND Corporation, RR-A691-1, Mar. 2024.
URL: https://www.rand.org/pubs/research_reports/RRA691-1.html.
9. S. O. Meadows, C. C. Engel, R. L. Collins, R. L. Beckman, J. Breslau, E. L. Bloom, M. S. Dunbar, M. L. Gilbert, D. M. Grant, J. Hawes-Dawson, S. Brooks Holliday, S. MacCarthy, E. R. Pedersen, **M. W. Robbins**, A. J. Rose, J. Ryan, T. L. Schell, and M. Simmons, "2018 Department of Defense Health Related Behaviors Survey (HRBS): Results for the reserve component," RAND Corporation, RR-4228-OSD, Apr. 2021.
URL: https://www.rand.org/pubs/research_reports/RR4228.html.
10. S. O. Meadows, C. C. Engel, R. L. Collins, R. L. Beckman, J. Breslau, E. L. Bloom, M. S. Dunbar, M. L. Gilbert, D. M. Grant, J. Hawes-Dawson, S. Brooks Holliday, S. MacCarthy, E. R. Pedersen, **M. W. Robbins**, A. J. Rose, J. Ryan, T. L. Schell, and M. Simmons, "2018 Department of Defense Health Related Behaviors Survey (HRBS):

Results for the active component," RAND Corporation, RR-4573-OSD, Apr. 2021. URL: https://www.rand.org/pubs/research_reports/RR4222.html.

11 V. L. Towe, E. L. Petrun Sayers, E. W. Chan, A. Y. Kim, A. Tom, W.-Y. Chan, J. P. Marquis, **M. Robbins**, L. Saum-Manning, M. Weden, and L. Payne, "Community planning and capacity building in Puerto Rico after Hurricane Maria: Pre-disaster conditions, hurricane damage, and courses of action," RAND Corporation, RR-2598-DHS, Sep. 2020. URL: https://www.rand.org/pubs/research_reports/RR2598.html.

12 E. Treyger, **M. W. Robbins**, J. Chang, and S. Tanverakul, "Modeling the impact of border-enforcement measures," RAND Corporation, RR-4348-DHS, May 2020. URL: https://www.rand.org/pubs/research_reports/RR4348.html.

13 **M. Robbins** and D. Grant, "RAND American Educator Panels (AEP) technical description," RAND Corporation, RR-3104, Mar. 2020. URL: https://www.rand.org/pubs/research_reports/RR3104.html.

14 J. Chang, **M. W. Robbins**, C. Kolb, and B. Koski, "Developing a robust sampling plan for covert testing of TSA passenger screening," RAND Corporation, PR-4782-DHS, Jan. 2020.

15 A. Mulcahy, K. Becker, J. Cantor, S. Ashwood, J. Ringel, L. Sontag-Padilla, C. Buttorff, **M. Robbins**, S. Lovejoy, T. Goughnour, S. Heins, B. Weidmer, M. Martineau, M. Oelrich, J. Gildner, G. Karimi, and T. Goode, "Medicare's ground ambulance data collection system: Sampling and instrument considerations and recommendations," Centers for Medicare & Medicaid Services, CMS Alliance to Modernize Healthcare, Jul. 2019. URL: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AmbulanceFeeSchedule/Downloads/Ground-Ambulance-Data-Collection-System-Sampling-Instrument-Considerations-Recommendations.pdf.

16 S. M. Robson, S. Pezard, M. C. Lytell, C. S. Sims, J. Boon, J. Etchegaray, **M. Robbins**, D. Schulker, J. Sollinger, J. Campbell, A. Atler, and S. Seabrook, "Evaluation of the Strength Aptitude Test and other fitness tests to qualify air force recruits for physically demanding specialties," RAND Corporation, Tech. Rep. RR-1789-AF, Aug. 2018. URL: https://www.rand.org/pubs/research_reports/RR1789.html.

17 K. A. Hepner, C. Farris, C. M. Farmer, P. O. Iyiewuare, T. Tanielian, A. Wilks, **M. Robbins**, S. M. Paddock, and H. A. Pincus, "Military mental health: Provider perspectives on treating PTSD and depression," RAND Corporation, Tech. Rep. IG-131, Apr. 2017. URL: https://www.rand.org/pubs/infographics/IG131.html.

18 K. A. Hepner, C. Farris, C. M. Farmer, P. O. Iyiewuare, T. Tanielian, A. Wilks, **M. Robbins**, S. M. Paddock, and H. A. Pincus, "Delivering clinical practice guideline–Concordant care for PTSD and major depression in military treatment facilities," RAND Corporation, Tech. Rep. RR-1692-OSD, Jan. 2017. URL: https://www.rand.org/pubs/research_reports/RR1692.html.

19 J. H. Kaufman, L. S. Hamilton, B. M. Stecher, S. Naftel, **M. Robbins**, L. E. Thompson, C. Garber, S. Faxon-Mills, and V. D. Opfer, "What supports do teachers need to help students meet common core state standards for english language arts and literacy? findings from the American Teacher and School Leader Panels," RAND Corporation, Tech. Rep. RR-1374-BMGF, Dec. 2016. URL: https://www.rand.org/pubs/research_reports/RR1374-1.html.

20 L. S. Hamilton, J. H. Kaufman, B. M. Stecher, S. Naftel, **M. Robbins**, L. E. Thompson, C. Garber, S. Faxon-Mills, and V. D. Opfer, "What supports do teachers need to help students meet common core state standards for mathematics? a RAND brief with findings from the American Teacher and School Leader Panels," RAND Corporation, Tech. Rep.

RR-1404-BMGF, Oct. 2016.
URL: https://www.rand.org/pubs/research_reports/RR1404-1.html.

21 J. H. Kaufman, L. S. Hamilton, B. M. Stecher, S. Naftel, **M. Robbins**, C. Garber, C. Ogletree, S. Faxon-Mills, and V. D. Opfer, "What are teachers' and school leaders' major concerns about new k–12 state tests? findings from the American Teacher and American School Leader Panels," RAND Corporation, Tech. Rep. RR-1294-BMGF, Oct. 2016.
URL: https://www.rand.org/pubs/research_reports/RR1294-1.html.

22 A. A. Robbert, T. Terry, P. Emslie, and **M. Robbins**, "Promotion benchmarks for senior officers with joint and acquisition service," RAND Corporation, Tech. Rep. RR-1447-OSD, Sep. 2016. URL: https://www.rand.org/pubs/research_reports/RR1447.html.

23 T. Tanielian, C. Farris, C. Epley, C. M. Farmer, E. Robinson, C. Engel, **M. Robbins**, and L. H. Jaycox, "Ready to serve: Community-based provider capacity to deliver culturally competent, quality mental health care to veterans and their families," RAND Corporation, Tech. Rep. RR-806-UNHF, Nov. 2014.
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24 R. Ramchand, T. Tanielian, M. Fisher, C. Vaughan, T. Trail, C. Epley, P. Voorhies, **M. Robbins**, E. Robinson, and B. Ghosh-Dastidar, "Key facts and statistics from the RAND military caregivers study," RAND Corporation, Tech. Rep. PT-124-TEDF, Apr. 2014. URL: https://www.rand.org/pubs/presentations/PT124.html.

25 R. Ramchand, T. Tanielian, M. Fisher, C. Vaughan, T. Trail, C. Epley, P. Voorhies, **M. Robbins**, E. Robinson, and B. Ghosh-Dastidar, "Hidden heroes: America's military caregivers," RAND Corporation, Tech. Rep. RR-499-TEDF, Mar. 2014.
URL: https://www.rand.org/pubs/research_reports/RR499.html.

26 R. Ramchand, T. Tanielian, M. Fisher, C. Vaughan, T. Trail, C. Epley, P. Voorhies, **M. Robbins**, E. Robinson, and B. Ghosh-Dastidar, "Military caregivers: Who are they? and who is supporting them?" RAND Corporation, Tech. Rep. RB-9764-TEDF, Mar. 2014.
URL: https://www.rand.org/pubs/research_briefs/RB9764.html.

## In Proceedings

1 **M. W. Robbins**, "Model building and computational efficiency in the Agricultural Resource Management Survey," in *JSM Proceedings*, Section on Survey Research Methods, Alexandria VA: American Statistical Association, 2011, pp. 2780–2789.

2 D. Miller, **M. W. Robbins**, and J. D. Habiger, "Examining the challenges of missing data analysis in phase three of the Agricultural Resource Management Survey," in *JSM Proceedings*, Section on Survey Research Methods, Alexandria VA: American Statistical Association, 2010, pp. 816–829.

3 **M. W. Robbins**, S. K. Ghosh, and J. D. Habiger, "Innovative imputation techniques designed for the Agricultural Resource Management Survey," in *JSM Proceedings*, Section on Survey Research Methods, Alexandria VA: American Statistical Association, 2010, pp. 634–641.

4 J. D. Habiger, **M. W. Robbins**, and S. K. Ghosh, "An assessment of imputation methods for the USDA's Agricultural Resource Management Survey," in *JSM Proceedings*, Section on Survey Research Methods, Alexandria VA: American Statistical Association, 2010, pp. 754–758.

## Software

1. **M. Robbins**, P. Nascimento de Lima, and M. Griswold, *gerbil: Generalized efficient regression-based imputation with latent processes*, R package version 0.1.9, 2023. DOI: 10.32614/CRAN.package.gerbil.
2. **M. Robbins** and S. Davenport, *microsynth: Synthetic control methods with micro- and meso-level data*, R package version 2.0.51, 2025. DOI: 10.32614/CRAN.package.microsynth.

## Presentations

### Invited

1. "An introduction to the gerbil package in R for joint imputation of general data," in *University of California Santa Cruz*, Santa Cruz, CA, May 2021.
2. "A flexible and efficient algorithm for joint imputation of general data," in *Mississippi State University*, Starkville, MS, Oct. 2020.
3. "Synthetic control methods with micro-level data: Methods and software," in *University of Pittsburgh*, Pittsburgh, PA, Jan. 2019.
4. "Blending of probability and convenience samples as applied to a survey of military caregivers," in *NISS/WSS Workshop on Inference from Nonprobability Samples*, Washington, DC, Sep. 2017.
5. "A general regression changepoint test for time series data," in *13th International Meeting on Statistical Climatology*, Canmore, Alberta, Canada, Jun. 2016.
6. "A general regression changepoint test for time series data," in *Miami University*, Oxford, OH, May 2014.
7. "Changepoints in the North Atlantic tropical cyclone record," in *IMS–APRM*, Tokyo, Japan, Jul. 2012.
8. "ARMS III imputation: Procedures and findings," in *International Conference on Establishment Surveys*, Montreal, QC, Canada, Jun. 2012.

### Contributed

1. "Resampling methods for multiply imputed data," in *Joint Statistical Meetings*, Nashville, TN, Aug. 2025.
2. "The utility of big data for evaluating public opinion," in *Joint Statistical Meetings*, Portland, OR, Aug. 2024.
3. "A weighting approach for generalizing big data," in *Joint Statistical Meetings*, Washington, DC, Aug. 2022.
4. "A robust sampling design for red teaming," in *88th MORSS Symposium*, New London, CT, Jun. 2020.
5. "Robust estimation of the causal effect of neighborhood socioeconomic status on cognitive function," in *Joint Statistical Meetings*, Denver, CO, Aug. 2019.
6. "Calibrating to estimated totals: Lessons from the american teacher panel," in *Joint Statistical Meetings*, Vancouver, BC, Aug. 2018.
7. "Microsynth: Synthetic control methods with micro- and meso-level data in R," in *Atlantic Causal Inference Conference 2018*, Pittsburgh, PA, May 2018.

8. "Novel methods for blending of probability and convenience samples," in *AAPOR Annual Conference*, Denver, CO, May 2018.
9. "Strategies for recruitment of teachers into RAND's American Teacher Panel," in *AAPOR Annual Conference*, Denver, CO, May 2018.
10. "Robust estimation of the causal effect of neighborhood socioeconomic status on cognitive function," in *12th International Conference on Health Policy Statistics*, Charleston, SC, Jan. 2018.
11. "Blending of probability and convenience samples as applied to a survey of military caregivers," in *Joint Statistical Meetings*, Baltimore, MD, Aug. 2017.
12. "Data fusion for predicting long-term program impacts," in *Joint Statistical Meetings*, Chicago, IL, Aug. 2016.
13. "A framework for synthetic control methods with high dimensional, micro-level data: Evaluating a neighborhood-specific crime intervention," in *Joint Statistical Meetings*, Seattle, WA, Aug. 2015.
14. "Cross-correlation matrices for tests of independence and causality between two multivariate time series," in *Joint Statistical Meetings*, Boston, MA, Aug. 2014.
15. "Changepoint detection in climatic time series with long-term trends," in *Joint Statistical Meetings*, Montreal, QC, Canada, Aug. 2013.
16. "Changepoint detection in precipitation data," in *Joint Statistical Meetings*, San Diego, CA, Aug. 2012.
17. "Model building and computational efficiency in the agricultural resource management survey," in *Joint Statistical Meetings*, Miami, FL, Aug. 2011.
18. "What happens when the analyst's model differs from the imputer's model? some examples from the agricultural resource management survey," in *AAEA & NAREA Joint Meetings*, Pittsburgh, PA, Jul. 2011.
19. "Innovative imputation techniques designed for the agricultural resource management survey," in *Joint Statistical Meetings*, Vancouver, BC, Aug. 2010.

## Refereeing

Journals — *Annals of Applied Statistics*, *American Journal of Agricultural Economics*, *Canadian Journal of Statistics*, *Environmetrics*, *Handbook on Discrete-Valued Time Series*, *International Statistical Review*, *Journal of Applied Econometrics*, *Journal of Applied Meteorology and Climatology*, *Journal of Applied Statistics*, *Journal of Climate*, *Journal of Computational and Graphical Statistics*, *Journal of Economic Literature*, *Journal of Medical Internet Research*, *Journal of Nonparametric Statistics*, *Journal of Official Statistics*, *Journal of Probability and Statistics*, *Journal of the Royal Statistical Society*, *Journal of Statistical Software*, *Journal of Survey Statistics and Methodology*, *Journal of the American Statistical Association*, *Review of Economics and Statistics*, *Statistica Sinica*, *Statistical Journal of the IAOS*, *Statistical Modelling*, *Statistical Methodology*, *Statistics and Probability Letters*, *Statistics in Medicine*, *The American Statistician*, *The European Political Science Review*

Grants — *National Collaborative on Gun Violence Research*, *National Science Foundation*

## Teaching

### University of Missouri, Columbia

Stat 4750/7750 — *Introduction to Probability Theory* - Spring 2013, Fall 2011
Stat 4710/7710 — *Introduction to Mathematical Statistics* - Spring 2013
Stat 4870/7870 — *Time Series Analysis* - Fall 2012
Stat 4760/7760 — *Statistical Inference* - Spring 2012

### Clemson University

MthSc 302 — *Engineering Statistics* - Spring 2009
MthSc 207 — *Business Calculus II* - Fall 2008
MthSc 309 — *Business Statistics* - Fall 2007, Spring 2008
MthSc 102 — *Business Calculus I* - Spring 2006. Fall 2006

## Mentoring

### Pardee RAND Graduate School

Samantha Perez Davila — PhD, expected, May 2026
Max Griswold — PhD, 2024
Steve Davenport — PhD, 2020

## Service

### University of Missouri, Columbia

2013 — Ph.D. Qualifying Exam Committee
2012-13 — Colloquium Series Chairman
2011-12 — Recording Secretary

## Skills

Coding — R, Python, SAS, SQL, Matlab, C++, Stata, Office, LaTeX, HTML, Microsoft Office, etc.

## Miscellaneous

### Awards and Achievements

2024 — **RAND Spotlight Award for Innovation**, RAND Corporation.