

James Wagner

CONTACT INFORMATION 1980 Harley Ct (734) 647-5600
Ann Arbor, MI 48103 USA jameswag@umich.edu

RESEARCH INTERESTS Responsive design, Adaptive survey design, Nonresponse bias, Measuring survey data quality

EDUCATION **University of Michigan**, Ann Arbor, Michigan USA
Ph.D., Program in Survey Methodology, August 2008

University of Michigan, Ann Arbor, Michigan USA
M.A., Political Science, May, 2000

Macalester College, St. Paul, Minnesota USA
B.A., Political Science/Russian Area Studies, May, 1987

HONORS AND AWARDS University of Michigan Rackham Regents' Fellowship, 1987-1991
Macalester College: graduated Magna Cum Laude, Phi Beta Kappa, 1987

JOURNAL PUBLICATIONS **Wagner, J.**, J. Arrieta, H. Guyer, and M. Ofstedal. Forthcoming. Does Sequence Matter in Multi-Mode Surveys: Results from an Experiment. *Field Methods*.

Wagner, J. 2013. Adaptive Contact Strategies in Telephone and Face-to-Face Surveys. *Survey Research Methods* 7(1):45-55.

Wagner, J., N. Kirgis, B. West, J. Lepkowski, W. Axinn, S Kruger-Ndiaye. 2012. Use of Paradata in a Responsive Design Framework to Manage a Field Data Collection. *Journal of Official Statistics* 28(4):477-499.

Wagner, J. 2012. A Comparison of Alternative Indicators for the Risk of Nonresponse Bias. *Public Opinion Quarterly* 76(3):555-575.

Wagner, J. 2010. The Fraction of Missing Information as a Monitoring Tool for Survey Data Quality. *Public Opinion Quarterly* 74(2):223-243.

Wagner, J. and T.E. Raghunathan. 2010. A New Stopping Rule for Surveys. *Statistics in Medicine* 29(9):1014-1024.

Kreuter, F., K. Olson, **J. Wagner**, T. Yan, T.M. Ezzati-Rice, C. Casas-Cordero, M. Lemay, A. Peytchev, R.M. Groves, and T.E. Raghunathan. 2010. Using Proxy Measures and Other Correlates of Survey Outcomes to Adjust for Nonresponse: Examples from Multiple Surveys. *Journal of the Royal Statistical Society: Series A* 172(2):389-407.

Heeringa, S. G., **J. Wagner**, M. Torres, N. Duan, T. Adams, and P. Berglund. 2004. Sample Designs and Sampling Methods for the Collaborative Psychiatric Epidemiology Studies (CPES). *International Journal of Methods in Psychiatric Research* 13 (4):221-40.

CHAPTERS IN
EDITED VOLUMES
AND BOOK REVIEWS

Wagner, J. and Sunghee Lee. Forthcoming. Sampling Rare Populations. In *Health Survey Research Methods Handbook*, ed. Timothy Johnson.

Wagner, J. 2013. Using Paradata-Driven Models to Improve Contact Rates in Telephone and Face-to-Face Surveys. In *Improving Surveys With Paradata: Analytic Use Of Process Information*, ed. Frauke Kreuter.

Lee, S., **J. Wagner**, S. Heering, and R. Valliant. Forthcoming. Recent Developments of Sampling Hard-to-Reach Populations: An Assessment. In *Survey Methods for Hard-to-Reach Populations*, eds. Roger Tourangeau, Brad Edwards, and Nancy Bates.

Pennell B.E., Y. Deshmukh , J. Kelley, P. Maher, **J. Wagner**, and D. Tomlin. Forthcoming. Disaster Research: Surveying Displaced Populations. In *Survey Methods for Hard-to-Reach Populations*, eds. Roger Tourangeau, Brad Edwards, and Nancy Bates.

Wagner, J. Review of *Handbook of Nonresponse in Household Surveys* by Jelke Bethlehem, Fannie Cobben and Barry Schouten. (2011). *Journal of Official Statistics*.

CONFERENCE
PROCEEDINGS AND
TECHNICAL
REPORTS

Lepkowski, J. M., W. D. Mosher, R. M. Groves, B. T. West, **J. Wagner** and H. Gu. (2013). Responsive Design, Weighting, and Variance Estimation in the 2006-2010 National Survey of Family Growth, National Center for Health Statistics. 2(158).

Nishimura, R., **J. Wagner**, and M. Elliott (2012). Alternative Indicators for the Risk of Nonresponse Bias: A Simulation Study. *2012 Proceedings of the American Statistical Association*, Survey Research Methods Section, Joint Statistical Meetings, San Diego.

Wagner, J. and K. Olson (2011). Where Do Interviewers Go When They Do What They Do? An Analysis of Interviewer Travel in Two Field Surveys. *2011 Proceedings of the American Statistical Association*, Survey Research Methods Section, Joint Statistical Meetings, Miami.

Wagner, J., T.E. Raghunathan. (2007). Bayesian Approaches to Sequential Selection of Survey Design Protocols. *2007 Proceedings of the American Statistical Association*, Survey Research Methods Section, pp. 3333-3340.

PAPERS IN
PREPARATION

Nishimura, R., **J. Wagner**, and M. Elliott . Under Review. Alternative Indicators for the Risk of Nonresponse Bias: A Simulation Study.

Wagner, J., R. Valliant, F. Hubbard, and C. Jiang. Under Review. Level-of-Effort Paradata and Nonresponse Adjustment Models for a National Face-to-Face Survey.

Wagner, J. and F. Hubbard. Under Review. Producing Consistent Estimate of Propensity Models During Data Collection.

Schouten B. , F. Cobben , P. Lundquist and **J. Wagner**. Under Review. Does balancing survey response reduce nonresponse bias?

Wagner J. and K. Olson. In Preparation. Where Do Interviewers Go When They Do What They Do? An Analysis of Interviewer Travel in Two Field Surveys.

Olson, K. and **J. Wagner**. Under Review. A Feasibility Test of using Smartphones to Collect GPS Information in Face-to-Face Surveys.

Wagner, J., J. M. Lepkowski, B. T. West, N. Kirgis, and W.G. Axinn. In Preparation. Examining

the Impact of Nonresponse on Estimates from the 2006-2010 Continuous NSFG.

FUNDING

Principal Investigator **2011-2013**
“Comparing Measures of Survey Data Quality.” National Institutes of Health, 1-R03-HD-070012-01.
\$155,500 total cost.

Chief Mathematical Statistician **2011-2019**
National Survey of Family Growth. Contract with the National Center for Health Statistics.
\$40,480,128 total cost.

Consultant **2013-**
US Census Bureau. Inter-Agency Personnel Agreement. \$30,127 annual cost.

Methodologist **2012-**
Army STARRS. 0.20 FTE.

TEACHING
EXPERIENCE

UM Program in Survey Methodology/SRC Summer Institute, Ann Arbor, Michigan USA

Dissertation Committees
Melania Calinescu (2013), Vrije Universiteit, Amsterdam, Netherlands.
Taylor Lewis, University of Maryland, College Park, MD.

Instructor **Winter 2014**
Co-taught with Jim Lepkowski seminar on Nonresponse Indicators and Responsive/Adaptive Designs.

Instructor **Summer 2013**
Taught seminar in Methods of Survey Sampling.

Instructor **Summers 2010-2012**
Co-taught with Jim Lepkowski seminar in Methods of Survey Sampling.

Instructor **Winters 2011-2014**
Taught Statistics II, extensions of the linear model.

Instructor **Fall 2010**
Taught 3 lectures on sampling to Fundamentals of Survey Methodology course.

Instructor **Summers 2004-2006, 2009-2012**
Taught sessions in the Sampling Workshop on telephone sampling, sample design, and response rates.

University of Michigan Political Science Dept, Ann Arbor, Michigan USA

Graduate Student Instructor **September, 1988 - May 1992**
Graduate student instructor for undergraduate courses in Political Theory. Led discussion sections, graded papers, and delivered lectures.

PRESENTATIONS

Wagner, J., K. Olson, and M. Edgar. 2013. Using GPS and Other Data to Assess Errors in Level-of-Effort Data in Field Surveys. Joint Statistical Meetings.

Ziniel, S., **J. Wagner**, R. Hehn, R. Groves, and I. Holm. An Evaluation of Alternative Indicators for the Risk of Nonresponse Bias for a Mail Survey with a Nonresponse Follow-Up. Paper presented at the Annual Conference of the American Association for Public Opinion Research.

Schouten, B., F. Cobben, P. Lundquist, and **J. Wagner**. Does Balancing Survey Response Reduce Nonresponse Bias? Paper presented at the Annual Conference of the American Association for Public Opinion Research.

Olson, K. and **J. Wagner**. 2013. A field experiment using GPS devices to monitor interviewer travel behavior. Paper presented at the Annual Conference of the American Association for Public Opinion Research.

Hubbard, F., **J. Wagner**, H. Gu, W. Chang. 2013. Predicting Areas Where Amended USPS-Based Address Lists May Be Used in Place of Enhanced Listing: Results from a Nationally Representative Sample. Paper presented at the Annual Conference of the American Association for Public Opinion Research.

Wagner, J. and F. Hubbard. 2013. Using Propensity Models During Data Collection for Responsive Designs: Issues with Estimation. Paper presented at the Annual Conference of the American Association for Public Opinion Research.

Suzer-Gurtekin, T., S. Lee, and **J. Wagner**. 2013. Empirical Assessment of Respondent Driven Sampling. Paper presented at the Annual Conference of the American Association for Public Opinion Research.

Jiang, C., J. Lepkowski, R. Valliant, and **J. Wagner**. 2013. Line Sampling Macro for Multistage Sampling. Paper presented at the SAS Global Forum.

Lee, S., **J. Wagner**, R. Valliant, and S. Heeringa. 2012. Recent Developments of Sampling Hard-to-Reach Populations: An Assessment. Survey Methods for Hard-to-Reach Populations Conference.

Pennell, B.E., Y. Deshmukh, J. Kelley, P. Maher, **J. Wagner**, D. Tomlin. 2012. Disaster Research: Surveying Displaced Populations. Survey Methods for Hard-to-Reach Populations Conference.

Wagner, J. 2012. Invited panelist for Multi-Level Data Methods to Detect and Adjust for Nonresponse Bias in Sample Surveys. Joint Statistical Meetings.

Wagner, J. 2012. Examining the Impact of Nonresponse on Estimates from the 2006-2010 Continuous NSFG. Paper presented at the Annual Conference of the American Association for Public Opinion Research.

Lee, S., J. Wagner, T. Suzer-Gurtekin, **J. Wagner**, and R. Valliant. 2012. Exploring Error Properties of Respondent-Driven Sampling. Paper Presented at the Joint Statistical Meetings.

Wagner, J., J. Arrieta, H. Guyer, and M.B. Ofstedal. 2011. Does Sequence Matter in Multi-Mode Surveys? Results from an Experiment. Paper presented at the Annual Conference of the Midwest Association for Public Opinion Research.

Couper, M. and **J. Wagner**. 2011. Using Paradata and Responsive Design to Manage Survey Nonresponse. Invited paper presented to the World Statistics Congress of the International Statistical Institute Conference.

Wagner, J. and K. Olson. 2011. Where do interviewers go when they do what they do? An analysis of interviewer travel and scheduling in two field surveys. Paper presented Joint Statistical Meetings.

Wagner, J. 2011. Alternative Measures for the Risk of Nonresponse Bias. Invited paper presented to the Committee on National Statistics workshop on the Future of Social Science Data Collection.

Wagner, J. 2010. The Fraction of Missing Information as a Tool for Monitoring the Quality of Survey Data. Invited paper presented at the Census Bureau's Workshop on Advances in Responsive and Adaptive Survey Designs.

Lyberg, L., F. Kreuter, and **J. Wagner**. 2010. Optimal Adaptive Survey Design. Paper presented at the International Total Survey Error Workshop.

Wagner, J. 2010. Adaptive Contact Strategies in Telephone and Face-to-Face Surveys. Paper presented at the Joint Statistical Meetings.

Wagner, J. 2010. Using Imputation Methods to Estimate e. Paper presented at the Annual Conference of the American Association for Public Opinion Research.

Wagner, J. 2010. A Comparison of Alternative Measures of Survey Data Quality. Paper presented at the Annual Conference of the American Association for Public Opinion Research.

Wagner, J. 2009. Paradata and Alternative Measures of Survey Data Quality. Paper presented at NCRM Network for Methodological Innovations 2009: The Use of Paradata in UK Social Surveys, London, UK.

Kreuter, F. and **J. Wagner**. 2009. Using Paradata and Responsive Design to Control the Risk of Nonresponse Bias. Paper presented at NCRM Network for Methodological Innovations 2009: The Use of Paradata in UK Social Surveys, London, UK.

Wagner, J. 2009. Adaptive Contact Strategies in a Telephone Survey. Paper presented at the Federal Committee on Statistical Methodology Research Conference.

Wagner, J. 2009. The Fraction of Missing Information as a Tool for Monitoring the Quality of Survey Data. Paper presented at the Joint Statistical Meetings.

Wagner, J. 2008. The Fraction of Missing Information as a Tool for Monitoring the Quality of Survey Data. Paper presented at the Joint Statistical Meetings.

Groves, R.M., J.M. Brick, T.W. Smith, and **J. Wagner**. 2008. Alternative Practical Measures of Representativeness of Survey Respondent Pools. Paper presented at the Annual Conference of the American Association for Public Opinion Research.

Groves, R.M., N. Kirgis, E. Peytcheva, **J. Wagner**, W.G. Axinn, and W.D. Mosher. 2008. Responsive Design for Household Surveys: Illustration of Management Interventions Based on Survey Paradata.

Groves, R.M., E. Peytcheva, and **J. Wagner**. 2007. Use of Interviewer Judgments About Attributes of Selected Respondents in Postsurvey Adjustment for Unit Nonresponse: An Illustration with the National Survey of Family Growth. Paper presented at the Joint Statistical Meetings.

Guyer, H., **J. Wagner**, and G. Cheung. 2007. Impact of the Use of Respondent Profiles on Response Rates and Efficiency. Paper Presented at the Annual Conference of the American Association for Public Opinion Research.

Wagner, J. and H. Guyer. 2005. Statistical Propensity Models to Predict Likelihood of Survey Response Compared to Interviewer Judgments of Likelihood of Response. Presented at the Annual Conference of the Midwest Association for Public Opinion Research.

PROFESSIONAL
SERVICE

Midwest AAPOR Executive Council, 2012-.

Co-Organizer, Program in Survey Methodology Brown Bag Lecture Series, 2012-2013.

Chair, Michigan Program in Survey Methodology Masters Degree Admissions Committee, 2013.

Michigan Program in Survey Methodology Masters Degree Admissions Committee, 2012.

Survey Research Operations Situational Review Committee, August 2011.

Ad hoc reviewer for *Public Opinion Quarterly*, *Journal of Official Statistics*, *Survey Methodology*, *Field Methods*, *Journal of Survey Statistics and Methods*, *Vaccines*, *American Journal of Epidemiology*.

PROFESSIONAL
EXPERIENCE

UM Survey Research Center, Survey Research Operations, Ann Arbor, Michigan USA

Assistant Research Scientist

July, 2009 - present

Design and conduct original methodological research. Also responsible for developing sample designs and the design and implementation of responsive design plans on large surveys.

Survey Director

February, 2002 - July, 2009

Director of the Production Sampling Group. Responsible for design and implementation of survey samples; monitoring survey data collections; and implementing responsive design plans.

Market Strategies Inc., Livonia, Michigan USA

Senior Sampler

May, 1999 - February, 2002

Sample design and implementation for residential and commercial marketing research projects.

Information Transfer Systems, Ann Arbor, Michigan USA

Project Manager, Senior Project Manager

September, 1992 - May, 1999

Responsible for all aspects of telephone surveys, including questionnaire design, CAI programming, training, sampling, cost monitoring, and data analysis.

COMPUTER SKILLS

- Statistical Packages: R, WinBUGS, SAS, SUDAAN, EPI-Info.
- Applications: ArcView GIS, Microsoft Office, Unix shell scripting
- Operating Systems: Unix, Windows.