

SARAH M. NUSSER

Professor

Department of Statistics and Center for Survey Statistics and Methodology

Iowa State University

January 2021

POSITIONS AND AFFILIATIONS

- 2020-2022 Visiting Professor, Social and Decision Analytics Division, Biocomplexity Institute, University of Virginia
- 2003-present Professor, Department of Statistics, Iowa State University
- 1992-present Center for Survey Statistics and Methodology, Iowa State University
- 2014-2020 Vice President for Research, Iowa State University
- 2003-2020 Human Computer Interaction Graduate Program, Iowa State University
- 1994-2020 Ecology and Evolutionary Biology Graduate Program, Iowa State University
- Summer 2012 Summer at Census Research Fellow, US Census Bureau (2 weeks)
- Fall 2011 Mathematical Statistician, National Agricultural Statistics Service, USDA
- 2007-2010 Director, Center for Survey Statistics and Methodology, Iowa State University
- 1992-2004 Director, Center for Survey Statistics and Methodology, Iowa State University (formerly Professor-in-charge, Statistical Laboratory Survey Section)
- 1997-2003 Associate Professor, Department of Statistics, Iowa State University
- 2000-2001 ASA/NSF/BLS Senior Research Fellow, Bureau of Labor Statistics
- 1992-1997 Assistant Professor, Department of Statistics, Iowa State University
- 1990-1992 Statistician, The Procter & Gamble Company, Cincinnati, OH

EDUCATION

- 1990 PhD in Statistics, Iowa State University
- 1987 MS in Statistics, Iowa State University
- 1983 MS in Botany, North Carolina State University
- 1980 BS in Botany, University of Wisconsin-Madison

HONORS

- Elected Member, International Statistical Institute, 2012
- Board of Regents Award for Faculty Excellence, Iowa State University, 2010
- Distinguished Achievement Award, Section on Statistics and the Environment, American Statistical Association, 2007
- Fellow, American Statistical Association, 2003

RESEARCH ADMINISTRATION (2014-2020)

ISU OFFICE OF THE VICE PRESIDENT FOR RESEARCH

As Vice President for Research, led efforts to advance and support the research mission at Iowa State University, engaging in partnerships with colleges and other units at ISU. Developed interdisciplinary research portfolio through small and large-scale initiatives, increasing external research funding by 27% and establishing four new externally sponsored research centers. Engaged with national associations to promote open science and address research policy issues. Created campus programs for faculty research development, sponsored research support, and ethical research practice. Oversaw interdisciplinary research centers and service units for sponsored funding, research integrity, and research facilities.

EXTERNAL COMMITTEES, COUNCILS AND BOARDS

- 2020-present Member, National Advisory Panel, National Community Learning Network
- 2019-present Chair (2020-), Steering Committee, AAU-APLU Accelerating Public Access to Research Data Project
- 2019-present Member, Consensus Panel for *Transparency and Reproducibility of Federal Statistics*, National Academies of Science, Engineering and Medicine
- 2019-present Member, National Institutes of Health Advisory Committee to the Director Working Group on Enhancing Rigor, Transparency and Translatability in Animal Research
- 2016-present Chair (2021-2023) / Vice Chair (2020) / Member, Board on Research Data and Information, National Academies of Science, Engineering and Medicine
 - 2020 Member, Planning Committee for *Developing a Toolkit for Fostering Open Science Practices: A Workshop*, National Academies of Science, Engineering and Medicine
 - 2020 Member, Committee on Seventh Edition of *Principles and Practices for a Federal Statistical Agency*, National Academies of Science, Engineering and Medicine
- 2019-2020 Member, Senior Research Officer Meeting Planning Committee, Association of American Universities
- 2017-2020 Member, Chair-Elect (2019), Chair (2020) of Executive Committee, Council on Research, Association for Public and Land-Grant Universities
- 2014-2020 Member, Committee on National Statistics, National Academies of Science, Engineering and Medicine
- 2018-2019 Member, Organizing Committee for AAU-APLU NSF Workshop to Accelerate Public Access to Research Data
- 2016-2019 Co-chair, Public Access Working Group, Association of American Universities (planning and advocacy for open access publications and data sharing)

- 2018 Member, Steering Committee, Iowa Bioscience Platforms, Iowa Economic Development Authority
- 2016-2017 Member, Committee to produce the Sixth Edition of *Principles and Practices for a Federal Statistical Agency*, National Academies of Science, Engineering and Medicine
- 2015-2016 Member, Senior Research Officer Meeting Planning Committee, Association of American Universities

IOWA STATE UNIVERSITY COMMITTEES, COUNCILS AND CABINETS

- 2020 Co-chair, Research Working Group, Emergency Operations Committee
- 2019-2020 Member, Improved Service Delivery Advisory Committee
- 2017-2020 Chair, Ames Laboratory Scientific Advisory Committee
- 2015-2020 Member, United Way Iowa State University Leadership Committee
- 2014-2020 Member, Provost's Council
- 2014-2020 Member, President's Cabinet
- 2018-2019 Co-chair, Institutional Effectiveness Leadership Team
- 2018-2019 Co-chair, Ames Laboratory Chief Research Officer Search Committee
- 2017-2018 Co-chair, Iowa State University Vice President for Extension and Outreach Search Committee
- 2016 Member, Senior Vice President for University Services Search Committee

ADVISORY BOARDS

- 2019-2020 Member (ex officio), Iowa Bioscience Development Corporation Advisory Board
- 2017-2020 Member, Joint BioEnergy Institute, JBEI Board of Directors (DOE Bioenergy Research Center led by Lawrence Berkeley National Laboratory)
- 2014-2020 Member, Advisory Board, Iowa State University Research Foundation
- 2014-2020 Member, Advisory Board, Iowa State University Research Park
- 2015-2019 Member, Advisory Board, College of Public Health, University of Iowa

OPINIONS

[Federal funds are a wise investment](#), *The Cedar Rapids Gazette*, April 23, 2017

[Leverage university research to expand Iowa's bioscience economy](#), *Des Moines Business Record*, August 10, 2018

REPORTS

Redd, K. J., Steen, K., Nusser, S., Smith, T., Walters, T, Chasen, J., Luther, J., and Reecy, J. 2019. Accelerating Public Access to Research Data: Workshop Report. Washington, District of Columbia: Joint publication by the Association of Public and Land-grant Universities and Association of American Universities. DOI: 10.31219/osf.io/63mxh. Available at <https://www.aplu.org/projects-and- initiatives/research-science-and-technology/public-access/workshop-on-public-access-report-aplu- aau-2019.pdf>.

ARTICLES

Daniel S. Katz, Gabrielle Allen, Lorena A. Barba, Devin R. Berg, Holly Bik, Carl Boettiger, Christine L. Borgman, C. Titus Brown, Stuart Buck, Randy Burd, Anita de Waard, Martin Paul Eve, Brian E. Granger, Josh Greenberg, Adina Howe, Bill Howe, May Khanna, Timothy L. Killeen, Matthew Mayernik, Erin McKiernan, Chris Mentzel, Nirav Merchant, Kyle E. Niemeyer, Laura Noren, Sarah M. Nusser, Daniel A. Reed, Edward Seidel, MacKenzie Smith, Jeffrey Spies, Matt Turk, John D. Van Horn, and Jay Walsh. 2019. [The principles of tomorrow's university](#). *F1000Research*, 7:1926.

S. Keller, S. Nusser, Stephanie Shipp, C. E. Woteki. 2018. [Helping communities use data to make better decisions](#). *Issues in Science and Technology*. Spring 2018.

Shipp, S., C. Woteki, S. Keller, S. M. Nusser. 2017. [How to put data to work in your neighborhood](#). *The Conversation*, December 10, 2017.

PRESENTATIONS

1. Academic perspectives on sharing research data, CHORUS Forum on Open Access Policies and Compliance in a Global Context, [online](#), 2020
2. Embracing open scholarship at research universities, Transforming Research Conference, Washington, DC, 2019
3. How can funders help researchers and universities accelerate public access to research data, Research Funders Summit, Washington, DC, October 2018
4. Motivating campus to embrace open scholarship, Merrill Research Retreat, Nebraska City, NE, July 2018
5. New VPRs orientation (panelist), Council on Research Annual Meeting, Association for Public and Land Grant Universities, State College, PA, June 2018
6. AAU-APLU Public Access Working Group update, Council on Research Summer Meeting, Association of Public and Land Grant Universities, Reno NV, July 2017
7. New VPRs orientation (panelist), Council on Research Summer Meeting, Association of Public and Land Grant Universities, Reno NV, July 2017
8. Open data: perspectives from academia, Board on Research Data and Information, National Academies, Washington, DC, October 2016
9. Assessing federal agency public access data policies and what they will mean for research universities, Chief Academic Officers Meeting, Association for American Universities, Laguna Beach, CA, September 2016
10. Public access implementation from an institutional perspective, National Council of University Research Administrators Annual Meeting, discussion panel with J. Sebeok (AAU) and J. Chasen (U Kansas), Washington, DC, August 2016
11. New VPRs orientation (panelist), Council on Research Annual Meeting, Association for Public and Land Grant Universities, Morgantown, WV, August 2016

12. Open science and the need for education about data, Department Chairs Workshop, American Statistical Association, Alexandria, VA, July 2016
13. Assessing Federal Agency Public Access Data Policies and What They Will Mean for Research Universities, Senior Research Officers Meeting, Association for American Universities, co-led with P. Schiffer (U Illinois, Urbana-Champaign), Laguna Beach, CA, March 2016
14. The National Resources Inventory: the potential of small survey programs to break new ground. Committee on National Statistics, National Academies, Washington, DC February 2016
15. The Midwest Big Data Hub, Iowa Innovation Council, Des Moines, IA, January 2016
16. A newcomer's view of research administration in uncertain times, Merrill Research Retreat, Nebraska City, NE, July 2014

FUNDING

1. EAGER: Improving the Quality and Reducing the Burden of Producing and Reusing Publicly Accessible Research Data. NSF (2039677). PI: S Nusser, Co-PI: G. Kormaz (U Virginia). 8/24/2020-8/31/22, \$300,000.
2. Conference and National Summits to Develop a Guide to Accelerating Public Access to Research Data at Academic Institutions. (NSF 1939279). PI: T Smith (AAU), Co-PI: K Redd (APLU), S Nusser (replaced G Madden, Penn State U, 2020), R Samors. 9/15/2019 – 3/1/2022, \$191,486.
3. BD Hubs: Collaborative Proposal: Midwest: Midwest Big Data Hub: Building Communities to Harness the Data Revolution. NSF (1916391). PI: J. Reecy, Co-PIs: J. Colletti, S. Nusser, C. Lawrence-Dill, 06/01/2019-5/31/2023, \$98,792. (co-PI relinquished in 2020)
4. BD Hubs: Midwest: SEEDCorn: Sustainable Enabling Environment for Data Collaboration Seed Corn. NSF (1550320) – subcontract from U Illinois Urbana-Champaign prime. PI: S. M. Nusser, 10/1/15 – 8/31/19, \$220,328.
5. I3: Strengthening the professorate at Iowa State University: a campus network to enable strong science and diverse communities. NSF (0963584). PI: S.M. Nusser, Co-PIs: D.T. Rover, M.C. Shelley, B.S. Bowen, 4/2/10 – 12/31/17, \$1,248,727.

RESEARCH, TEACHING, PROFESSIONAL PRACTICE (through 2013)

CENTER ADMINISTRATION

Director (1992-2004, 2007-2010), ISU Center for Survey Statistics and Methodology (previously Statistical Laboratory Survey Section). Directed the ISU-USDA Natural Resources Conservation Service cooperative agreement activities for the National Resources Inventory (1992-2014), a long-standing cooperative agreement at approximately \$3 million per year, and numerous other sponsored research and survey projects. Oversaw center staffing, activities of 5 faculty, 10-12 graduate students, and 25 methodology and survey systems staff.

FUNDING

1. Statistical and survey methodological support for the Conservation Effects Assessment Project, USDA Natural Resources Conservation Service. PI: S. M. Nusser, Co-PIs: J-K. Kim, C. L. Yu, Z. Zhu, E. Berg. 9/18/13 – 9/17/15, \$300,000. [PI transferred to E. Berg in 2014]

2. Statistical and survey methods support for the BLM-Managed Lands Survey program, DOI Bureau of Land Management. PI: S. M. Nusser, Co-PIs: J-K. Kim, C. L. Yu, Z. Zhu, E. Berg. 9/15/13 – 9/30/18, \$350,000. [PI transferred to C. L. Yu in 2014]
3. New approaches for area frame development, area sample design, and geospatial data collection, USDA National Agricultural Statistics Service. PI: S. M. Nusser, Co-PIs: J-K. Kim, C. L. Yu, Z. Zhu. 3/1/2011-9/30/2015, \$962,800. [PI transferred to J-K. Kim in 2014]
4. Statistical and survey methods support for the National Resources Inventory, USDA Natural Resources Conservation Service. PI: S. M. Nusser, Co-PIs: J-K. Kim, C. L. Yu, Z. Zhu, E. Berg. [PI transferred to Z. Zhu in 2014]

7/1/13 – 6/30/14	2,550,000		
7/1/12 – 6/30/13	3,100,000	2/15/02 - 12/31/02	1,500,000
7/1/11 – 6/30/12	2,550,000	10/1/00 - 2/28/02	1,700,000
5/1/10 – 7/31/11	2,550,000	10/1/99 - 9/30/00	1,100,000
3/1/09 – 4/30/10	2,550,000	10/1/98 - 9/30/99	1,090,000
2/1/08 – 3/31/09	2,450,000	10/1/97 - 9/30/98	978,000
1/1/07 – 3/31/08	2,450,000	10/1/96 - 9/30/97	700,000
1/1/06 – 1/31/07	2,236,500	10/1/95 - 9/30/96	800,000
9/1/04 – 12/31/05	2,688,887	10/1/94 - 9/30/95	650,000
9/24/03 – 1/23/05	2,180,000	10/1/93 - 9/30/94	651,000
1/1/03 – 9/23/03	1,700,000	10/1/92 - 9/30/93	686,000

5. Developing integrated grazingland surveys, USDA Natural Resources Conservation Service. PI: S. M. Nusser, Co-PI: Cindy Yu. 7/1/12 – 6/30/13, \$150,000.
6. A measurement error approach to estimating usual daily physical activity distributions, National Institutes of Health. PI: G. Welk. Co-PIs: S. Nusser, A. Carriquiry. 9/15/2008-5/31/2014, \$2,468,635.
7. Effects of community assets on rural business development, USDA Economic Research Service. PI: C. Yu, Co-PIs: S. Nusser, S. Huck. 9/29/2010-9/30/2013. \$680,873.
8. Stress, financial management, and childhood obesity, US Department of Agriculture (subcontract from U Illinois at Urbana-Champaign). PI: S. Nusser, Co-PIs: S. Garasky, M. Larsen. 1/1/2009 – 1/14/2013, \$349,370.
9. New approaches for area frame development, area sample design, and geospatial data collection, USDA National Agricultural Statistics Service. PI: S. M. Nusser, Co-PIs: J-K. Kim, C. L. Yu, Z. Zhu. 9/1/2010-9/1/2012, \$50,000.
10. Accommodating individual differences in software designed for location-based survey tasks, National Science Foundation. PI: S. Nusser, Co-PI: L. Miller. 10/1/2008-7/31/2012, \$230,189 (plus \$8,000 Research Experience for Undergraduates Award).
11. Accommodating individual differences in map-based field survey software on handheld computers, U.S. Census Bureau. PI: S. M. Nusser, Co-PI: L. L. Miller, M. L. Rusch. 9/1/07 – 12/31/08, \$24,991.
12. A non-parametric approach to population size estimation for multiple system capture-recapture surveys, National Science Foundation. PI: S. X. Chen, Co-PIs: J. D. Opsomer, S. M. Nusser. 9/1/05 – 8/31/08, \$299,495.

13. The impact of biorenewable technologies on communities across Iowa, Iowa State University College of Human Sciences. PI: C. Gunderson, Co-PIs: C. Fletcher, M. D. Larsen, S.M. Nusser. 2/01/07 – 1/31/08, \$15,000; 7/01/07-6/30/08, \$22,000.
14. Individual variability and spousal synchronicity in cognition, affect, and health: conducting multiple daily assessments, Iowa State University College of Human Sciences. PI: J. Margrett, Co-PIs: G. Welk, S.M. Nusser. 12/15/06 – 7/15/07, \$9,978.
15. The development of a cognitive model to simulate lister behavior and decision-making for map-based tasks specific to address canvassing, U.S. Census Bureau. PI: S. M. Nusser, Co-PI: L. L. Miller, M. L. Rusch. 8/1/05 – 12/15/06, \$24,990.
16. Geospatial knowledge in complex mobile field settings, National Science Foundation. PI: S. M. Nusser, Co-PIs: L. M. Miller, J. H. Oliver, M. F. Goodchild, K. Clarke, M. Turk, M. Höllerer. 10/1/03-9/30/06, \$225,000.
17. Strategies for improving abilities to use digital maps, Bureau of Labor Statistics. PI: S. M. Nusser. 9/02-8/04, \$25,000.
18. Enabling the creation and use of GeoGrids for next generation geospatial information, National Science Foundation (subcontract from U. Maine). PI: S. M. Nusser; Co-PIs: H. S. Stern, L. M. Miller. 9/15/01-9/14/05, \$450,000.
19. Collecting and using geospatial data in the field: an extensible framework and testbed, National Science Foundation. PI: S. M. Nusser; Co-PIs: L. M. Miller, M. F. Goodchild, K. Clarke. 7/01/00-12/31/04, \$1,670,900.
20. Mobile computing, BAE Systems. PI: S. M. Nusser; Co-PIs: L. M. Miller, M. F. Goodchild, K. Clarke. 7/01/00-12/31/04, \$65,000.
21. Soils databases and statistical methods for soil surveys, USDA Natural Resources Conservation Service. PI: S. M. Nusser, Co-PIs: W. A. Fuller.

10/1/00 - 9/30/03	593,000		
10/1/99 - 9/30/00	338,000	10/1/95 - 9/30/96	644,570
10/1/98 - 9/30/99	600,000	10/1/94 - 9/30/95	620,960
10/1/97 - 9/30/98	664,000	10/1/93 - 9/30/94	423,640
10/1/96 - 9/30/97	540,000	10/1/92 - 9/30/93	564,375
22. Integrating and characterizing digital location data for computer-assisted survey information collection, Census Bureau. PI: S. M. Nusser. 8/15/00-3/31/02, \$26,350.
23. Using digital geospatial data in computer-assisted survey information collection, National Science Foundation, American Statistical Association, Bureau of Labor Statistics Senior Research Fellowship. PI: S. M. Nusser. 8/15/00-3/31/02, \$43,376.
24. Improving measurement of food security and hunger, USDA Economic Research Service. PI: H. H. Jensen; Co-PI: S. M. Nusser, J. D. Opsomer. 9/1/98-9/30/02, \$200,000.
25. At the interface of times series, measurement errors, and survey sampling: a conference in celebration of Wayne A. Fuller's 70th birthday, National Science Foundation. S. M. Nusser, Y. Amemiya, A. L. Carriquiry. 3/01/01-12/31/01, \$19,400.
26. Survey design considerations for evaluating welfare programs, USDA Economic Research Service and Dept. of Health & Human Services. Co-PIs: S. M. Nusser, C. N. Fletcher, H. H. Jensen. 9/99-9/01, \$170,000.

27. Development of sampling methodologies to support the USDA nutrient database for standard reference, USDA Agricultural Research Service. PI: S. M. Nusser; Co-PI: A. L. Carriquiry. 6/15/98-6/14/01, \$31,650.
28. What is happening to food stamp exiters: An examination of their employment and other experiences using administrative and survey data. Co-PIs: H. H. Jensen, S. Garasky, S. M. Nusser. 10/1/98-9/30/00, \$400,000.
29. A framework for the dissemination, use and storage of geospatial images for field data collection, National Science Foundation. PI: S. M. Nusser; Co-PIs: P. M. Siegel, G. F. Covert, M. Egenhofer. 8/1/99-7/31/00, \$40,000.
30. Feasibility study for state-level welfare surveys, Census Bureau. PI: S. M. Nusser; Co-PI: C. N. Fletcher. 5/15/98-5/14/99, \$85,000.
31. Methods development for natural resource surveys, Natural Resources Inventory and Analysis Institute, USDA Natural Resources Conservation Service. PI: S. M. Nusser; Co-PIs: W. A. Fuller, F. J. Breidt, J. D. Opsomer. 10/1/95 – 9/30/99, \$721,780.
32. Watershed assessment studies, Watershed Sciences and Soil Quality Institutes, USDA Natural Resources Conservation Service. Co-PIs: S. M. Nusser and J. D. Opsomer. 4/1/97-9/30/98, \$93,000.
33. Estimating usual intake and biochemical measurement distributions for NHANES III, National Center for Health Statistics. PI: A. L. Carriquiry, Co-PI: S. M. Nusser. 10/1/96 – 9/30/98, \$73,320.
34. Statistical methods for dietary assessment, USDA Agricultural Research Service. PI: S. R. Johnson, Co-PIs: W. A. Fuller, H. H. Jensen, A. L. Carriquiry, S. M. Nusser. 10/1/92 – 9/30/96, \$786,931.
35. Statistical review of Minnesota's Fish Contaminant Monitoring Program, State of Minnesota. PI: M. S. Kaiser, Co-PIs: S. M. Nusser, F. J. Breidt. 7/1/94-12/31/95, \$79,350.

REFEREED PUBLICATIONS

1. Beyler, N., W. Fuller, S. Nusser, and G. Welk. 2015. Predicting objective physical activity from self-report surveys: a model validation study using estimated generalized least-squares regression, *Journal of Applied Statistics*, 42(3), 555-565.
2. Welk, G.J., Y. Kim, B. Stanfill, D.A. Osthus, M. Calabro, S. Nusser, and A. Carriquiry. 2014. Validity of 24 hour physical activity recall: Physical Activity Measurement Survey. *Medicine and Science in Sports and Exercise* 46(10) doi:10.1249/MSS.0000000000000314.
3. Batinov, G., K. Whitney, L. Miller, S. Nusser, B. Stanfill, and K. T. Ashenfelter. 2013. Evaluating the impact of spatial ability in virtual and real world environments. *Sixth International Conference on Advances in Computer-Human Interactions (ACHI 2013)*. Nice, France. February 24 – February 24-28, 2013. p. 274-279.
4. S.M. Nusser. 2013. National Resources Inventory (NRI), US. *Encyclopedia of Environmetrics*, A.-H. El-Shaarawi and W. Piegorisch (eds), John Wiley & Sons Ltd: Chichester, UK. DOI: 10.1002/9780470057339.van004.pub2. Published online 1/15/2013.
5. S.M. Nusser and S. Zimmer. 2013. Sampling agricultural resources. *Encyclopedia of Environmetrics*, A.-H. El-Shaarawi and W. Piegorisch (eds), John Wiley & Sons Ltd: Chichester, UK. DOI: 10.1002/9780470057339.vnn032. Published online 1/15/2013.
6. Karl, J. W., M. C. Duniway, S. M. Nusser, J. D. Opsomer, R. S. Unnasch. 2012. Using very-large scale aerial (VLSA) imagery for rangeland monitoring and assessment: some statistical considerations. *Rangeland Ecology and Management*. 65(4):330-339.

7. Rusch, M. L., S. M. Nusser, L. L. Miller, G. I. Batinov, K. C. Whitney. 2012. Spatial ability and map-based software applications. *The 5th International Conference on Advances in Computer-Human Interactions*. Valencia, Spain. pp. 35-40.
8. Nusser, S. M., Beyler, N. K., Fuller, W. A., Carrquiry, A. L., Welk, G. W., King, B. M. N. 2012. Modeling errors in physical activity recall data. *Journal of Physical Activity and Health*, 9(Supp 1):S56-S67.
9. Whitney, K. C., G. I. Batinov, L.L. Miller, S. M. Nusser, K. T. Ashenfelter. 2011. Exploring a map survey sensitivity to cognitive ability. *Proceedings of the 4th International Conference on Advances in Computer-Human Interactions*. Gosier, Guadeloupe, France. p. 63-68.
10. Batinov, G.I, Whitney, K.C., Nusser, S.M., Miller, L.L., Ashenfelter, K.T. 2011. Decision models for an address verification field task. *Proceedings of the 26th ISCA Conference on Computers and Their Applications*. New Orleans, LA. p. 9-14.
11. Tucker J. M., G. J. Welk, S. Nusser, D. A. Dzewaltowski, and N. Beyler. 2011. Estimating minutes of physical activity from PDPAR: validation of a prediction equation. *Journal of Physical Activity and Health*, 8:71-78.
12. Whitney, K.C., Batinov, G.I., Nusser, S.M., Miller, L.L., Ashenfelter, K.T. 2010. Understanding the user's approach toward location-based field tasks. *Proceedings of the 23rd ISCA Conference on Computer Applications in Industry and Engineering*. Las Vegas, NV. p. 156-161.
13. Nusser, S. M. and C. House. 2009. Sampling, data collection and inference in agricultural surveys. In *Handbook of Statistics: Modern Sample Surveys, Volume 1: Design, Methods and Applications*, D. Pfefferman (editor). Elsevier. pp. 471-486.
14. Ihmels, M.A., Welk, G.J., Eisenmann, J.C., and Nusser, S. M. 2009. Prediction of BMI change in young children with the Family Nutrition and Physical Activity (FNPA) screening tool. *Annals of Behavioral Medicine*, 38(1):60-68.
15. Nusser, S. M. and M.D. Larsen. 2009. Sample surveys. In *e-Source: Behavioral and Social Science Research Interactive Textbook*, McKinlay J.B. and L.D. Marceau (editors). Office of Behavioral and Social Science Research, National Institutes of Health. <http://www.esourceresearch.org>
16. Calabro M.A., G.J. Welk, N. Beyler, A.L. Carriquiry, S.M. Nusser, and C.E. Matthews. 2009. Validation of a computerized 24 hour physical activity recall (24hPAR) instrument with pattern recognition activity monitors. *Journal of Physical Activity and Health*, 6(2):211-20.
17. Ihmels, M.A., Welk, G.J., Eisenmann, J.C., and Nusser, S. M. 2009. Development and preliminary validation of a Family Nutrition and Physical Activity (FNPA) screening tool. *International Journal of Behavioral Nutrition and Physical Activity*, 6:14. Available at: <http://www.ijbnpa.org/content/6/1/14>.
18. Nusser, S. M., W. R. Clark, D. L. Otis, and L. Huang. 2008. Sampling considerations for surveillance in wildlife populations. *Journal of Wildlife Management* 72(1):52-60.
19. Nusser, S. M. 2007. Using geospatial information resources in sample surveys. *Journal of Official Statistics*, 23:285-289. (Discussion for Morris Hansen Lecture)
20. Singer, J. W., S. M. Nusser, and C. J. Alf. 2007. Are cover crops being used in the Central Western US Corn Belt? *Journal of the Soil and Water Conservation Society*. 62(5):353-358.
21. Miller, L., H. Ming, H.-J. Tsai, B. Wemhoff, and S. Nusser. 2007. Supporting geographic data in the mobile computing environment. *Proceedings of the 20th ISCA Conference on Parallel and Distributed Computing Systems*. Las Vegas, NV. p. 56-61.

22. Nusser, S. M. 2006. Review of *Survey Methodology*, by R. M. Groves, F. J. Fowler, Jr., M. P. Couper, J. M. Lepkowski, E. Singer, and R. Tourangeau, Wiley. *Journal of the American Statistical Association*. 101:1310-1311.
23. Beidler, K. M., J. K. Iles, S. M. Nusser, and A. M. VanDerZanden. 2006. Assessing the preparedness of postsecondary graduates entering the landscape contracting industry. *HortTechnology* 16:312-317.
24. Tsai, H. J., L. L. Miller, H. Ming, and S. Nusser. 2006. Combining Spatial Data from Multiple Data Sources, *Proceedings of the ISCA 19th International Conference on Computer Applications in Industry and Engineering (CAINE-2006)*, Las Vegas, NV. pp. 89-94.
25. Nusser, S. M., S. S. Intille, and R. Maitra. 2006. Emerging technologies and next-generation intensive longitudinal data collection. In T. A. Walls and J. S. Schafer (editors), *Models for Intensive Longitudinal Data*. New York: Oxford University Press. pp. 254-278.
26. Nusser, S. M., W. R. Clark, J. Wang, and T. R. Bogenschutz. 2004. Pheasant populations associated with land use in Iowa during the Conservation Reserve Program. *Journal of Agricultural, Biological and Environmental Statistics*. 9(3):1-17.
27. Phillips, M. L., W. R. Clark, S. M. Nusser, M. A. Sovada, and R. J. Greenwood. 2004. Analysis of predator movement in prairie landscapes with contrasting grassland composition. *Journal of Mammalogy*. 82(2):187-195.
28. Nusser, S. M. and E. E. Klaas. 2003. Survey methods for assessing land cover map accuracy. *Environmental and Ecological Statistics*. 10(3):309-331.
29. Nusser, S. M., L. L. Miller, K. Clarke, and M. F. Goodchild. 2003. Geospatial IT for mobile field data collection. *Communications of the ACM (Association for Computing Machinery)*. 46:64-65.
30. Carriquiry, A. L. and S. M. Nusser. 2002. Comment on Patterson, B. H., C. M. Dayton, B. I. Graubard, Latent class analysis of complex sample survey data: application to dietary data. *Journal of the American Statistical Association*. 97:729-731.
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58. Carriquiry, A. L., H. H. Jensen, and S. M. Nusser. 1990. Modeling chronic versus acute human risk from contaminants in food. CARD Working Paper 90-WP 69. 29 pp.

PRESENTATIONS

Conferences: Invited

1. "Geospatial data collection in the US National Resources Inventory," International Conference on Agricultural Statistics, Rio de Janeiro, Brazil, October 2013
2. "Using geospatial information in area sampling and estimation for agricultural and environmental surveys", World Statistics Conference, Hong Kong, August 2013
3. "Sample design for Alaska in the National Resources Inventory (NRI)", The International Environmetrics Society Conference, Anchorage, AK, June 2013
4. "Survey errors in land-based surveys", International Total Survey Error Workshop, Ames, IA, June 2013
5. "Estimating usual physical activity distributions for populations," Latin American Society of Nutrition (SLAN) Congress, Havana, Cuba, November 2012
6. "A measurement error approach for estimating usual activity distributions," The 8th International Conference on Diet and Activity Methods, Rome, May 2012
7. "Modeling measurement errors In physical activity data," Joint Statistical Meetings, Miami, FL, August 2011
8. "Modeling errors in physical activity data," Measurement of Active and Sedentary Behaviors: Closing the Gaps in Self-Report Methods, National Institutes of Health, July 2010
9. "Statistical perspective: modeling errors in physical activity data," Symposium on Methodological and Statistical Challenges in Obesity and Health Research, Iowa State University, May 2010
10. "Pro-bono statistics: discussion," Joint Statistical Meetings, Washington, DC, August 2009
11. "Beyond design – reaching out with NHANES data: discussion," Joint Statistical Meetings, Denver, August 2008
12. "Sample designs for the National Resources Inventory," Workshop on sampling for Federal terrestrial surveys, hosted by Agricultural Research Service, Salt Lake City, April 2008
13. "Biometric developments in health surveys: discussion," 56th Session of the International Statistical Institute, Lisbon, August 2007
14. "Geographic feature data collection for longitudinal surveys," FedCASIC, Washington, DC, March 2007
15. Discussion of "Statistical perspectives on spatial social science" (presented by M. F. Goodchild), Morris Hansen Memorial Lecture, Washington Statistical Society, Washington, DC, November 2006
16. "Sampling considerations for monitoring CWD [chronic wasting disease] in deer populations," The Wildlife Society Annual Conference, Madison, WI, September 2005
17. "Computer-assisted methods for collecting geographic data using photographic backdrops," Joint Statistical Meetings, Minneapolis, August 2005
18. "Using data from the National Resources Inventory," REAP Alliance Meeting, Ankeny, IA, October 2004

19. "CASIC developments at Iowa State University," FedCASIC, Washington, DC, March 2004
20. "Topics in geographic metadata," GovStat Metadata Symposium, Chapel Hill, NC, September 2003
21. "Computer-assisted survey data collection using geospatial data," Interdisciplinary Research Institute for Survey Science Workshop, Ames, IA, May 2003
22. "Combining data from state and national monitoring surveys to assess large-scale impacts of agricultural policy," International Biometric Society ENAR Meeting, Tampa, FL, March 2003
23. "Mobile computing for sample surveys," 35th Symposium on the Interface, Salt Lake City, UT, March 2003
24. "Metadata and computer-assisted data collection," Open Forum 2003 on Metadata Repositories, Sante Fe, NM, January 2003
25. "Using GIS data in analysis weights for environmental surveys," Spatial Statistics: Integrating Statistics, GIS, and Statistical Graphics, Seattle, WA, October 2002
26. "Using geospatial information in planning and navigation," Joint Statistical Meetings, New York, August 2002
27. "Latent class analysis of dietary intake data (discussion)" Joint Statistical Meetings, New York, August 2002
28. "A user-centered framework for next-generation field data collection," 2002 National Conference on Digital Government Research, Los Angeles, CA, May 2002
29. "Digital geospatial data and survey data collection," Workshop on Survey Automation, National Academies Committee on National Statistics, April 2002
30. "Metadata and the data collection cycle," FedCASIC, Washington, DC, February 2002
31. "Using geospatial information to locate sample units in the field," Federal Committee on Statistical Methods Research Conference, Washington, D.C., November 2001
32. "Using geospatial data in mobile field environments," Federal Committee on Statistical Methods Research Conference, Washington, D.C., November 2001 (demonstration)
33. "Using and Collecting Geospatial Data in Mobile Field Environments," Third International Conference on Geospatial Information in Agriculture and Forestry, Denver, Colorado, November 2001 (demonstration, given by Dean Thompson)
34. "Future views of field data collection in statistical surveys," dg.o 2001 National Conference on Digital Government Research, Los Angeles, CA, May 2001
35. "A framework and testbed for survey data collection in a mobile field environment," dg.o 2001 Workshop, Los Angeles, CA, May 2001 (poster)
36. "Collecting and using geospatial data in the field," NSF Workshop on Challenges in Statistical Digital Government, Washington, DC, April 2001 (demonstration)
37. "Using geospatial data in mobile survey environments," FedCASIC, Washington, DC, February 2001
38. "Geospatial data in a mobile field data collection setting: the role of metadata," United Nations / European Economic Community Statistical Metadata Workshop, Washington, DC, November 2000
39. "Food stamps leavers studies: a methodological perspective," Association for Public Policy Analysis and Management Fall Research Conference, Seattle, WA, November 2000

40. "Collecting and using geospatial data in the field," dg.o 2000 Workshop, Burbank, CA, May 2000 (demonstration)
41. "Collecting location data for surveys," FedCASIC, Washington, DC, February 2000.
42. "Incorporating geospatial information: lessons from natural resource surveys," Social Science Data and Data Infrastructure Conference, New York, NY, November 1999
43. "Impact of missing values from converted refusals on nonsampling error: discussion," International Conference on Survey Nonresponse, Portland, OR, October 1999
44. "Mobile computing for statistical survey data collection," Handheld and Ubiquitous Computing 1999, Karlsruhe, Germany, September 1999
45. "Advances in CASIC for spatial data collection," Joint Statistical Meetings, Baltimore, MD, August 1999 (poster)
46. "Recent developments in the NRI survey program," Frontiers of Environmental and Ecological Statistics for the 21st Century, Bowling Green, OH, April 1999
47. "Digital images in field data collection," Federal Web Consortium, Rockville, MD, April 1999
48. "Design and estimation for the National Resources Inventory," Environmental Monitoring Surveys Over Time, Seattle, WA, April 1998
49. "The history of survey sampling at Iowa State University: 1947-1997," Statistics for Correlated Data: a Conference marking the 50th anniversary of the Department of Statistics at Iowa State University, Ames, IA, October 1997
50. "Usual intake distributions in risk assessment for food residues," Joint Statistical Meetings, Anaheim, August 1997
51. "Combining information for environmental impact assessment (discussion)," Joint Statistical Meetings, Anaheim, August 1997
52. "The USDA's CSFII: issues and applications (discussion)," Joint Statistical Meetings, Anaheim, August 1997
53. "Design and estimation for investigating natural resource dynamics," Ecological Resource Monitoring: Change and Trend Detection Workshop, Patuxent Wildlife Refuge, MD, May 1996
54. "Measures of central tendency for food composition databases," Workshop on the Statistical Representation of Food Composition Data, Agricultural Research Service, USDA, April 1996
55. "Sampling issues in regional monitoring programs," Joint Statistical Meetings, Orlando, FL, August 1995 (discussion)
56. "Estimating usual dietary intake distributions: adjusting for measurement error and normality in 24-hour food intake data," International Conference on Survey Measurement and Process Quality, Bristol, England, April 1995
57. "Estimating usual food intake distributions from 24-hr dietary intake data," Joint Statistical Meetings, Toronto, August 1994
58. "Estimating usual intake distributions from food record and recall data," American Public Health Association Meetings, San Francisco, CA, October 1993

59. "Failure time analyses for repeated measure event time data," Procter & Gamble Math/Stat Symposium, Cincinnati, OH, May 1991

Conferences: Contributed

1. "Modeling physical activity distributions for populations," Joint Statistical Meetings, San Diego, CA, August 2012 (topic contributed)
2. "Geographic data collection for longitudinal surveys," Joint Statistical Meetings, Salt Lake City, August 2007.
3. "Sample designs for monitoring survey data collection," 55th Session of the International Statistical Institute, Sydney, Australia, April 2005.
4. "Computer-assisted data collection for geographic features," Joint Statistical Meetings, Toronto, August 2004.
5. "User responses to digital map tools on handheld computers," Joint Statistical Meetings, San Francisco, August 2003.
6. "Mobile CASIC and the survey process," Third International Association for Survey Computing Conference, Edinburgh, Scotland, September 1999
7. "New technologies for mobile survey data collection," Joint Statistical Meetings, Dallas, TX, August 1998.
8. "Web-based survey tools," American Association of Public Opinion Research, St. Louis, MO, May 1998
9. "Networked hand-held CASIC," Statistics Canada Symposium '97: New Directions in Surveys and Censuses, Ottawa, Canada, November 1997
10. "A CASIC system using hand-held computers and centralized data servers," International Statistical Institute, Istanbul, Turkey, August 1997
11. "Conducting surveys with personal digital assistants," International Conference on Computer-Assisted Survey Information Collection, San Antonio, TX, December 1996
12. "Using personal digital assistants to collect survey data," Joint Statistical Meetings, Chicago, IL, August 1996
13. "Analyzing ecological trends with multiple natural resource data bases," ENAR Biometrics Meetings, Richmond, VA, March 1996
14. "Protection status of critical habitat for nesting black terns," 57th Midwest Fish and Wildlife Conference, presented by M. E. Estey with co-authors Naugle, R. R. Johnson, K. F. Higgins, S. M. Nusser, December 1995 (poster)
15. "Estimating usual food intake distributions," International Dietary Assessment Methodology Conference, Boston, MA, January 1995
16. "Estimating usual intake distributions for foods," Joint Statistical Meetings, San Francisco, CA, August 1993
17. "Estimating usual intake distributions for foods," ENAR Biometrics Meetings, Philadelphia, PA, March 1993
18. "A semiparametric transformation to normality: application to dietary data," Joint Statistical Meetings, Atlanta, GA, August 1991

19. "Failure time analyses for correlated data," NATO Advanced Studies Workshop on Survival Analysis and Related Topics, Columbus, OH, June 1991 (poster)
20. "Failure time analyses for repeated measure event time data," ENAR Biometrics Meetings, Houston, TX, March 1991
21. "Failure time analyses for correlated data," Joint Statistical Meetings, Anaheim, CA, August 1990
22. "Estimating the distribution of usual nutrient intakes: a model-based approach," American Institute of Nutrition, Charleston, SC, December 1989 (poster)
23. "Estimating the distribution of usual nutrient intakes: a model-based approach," ENAR Biometrics Meetings, Lexington, KY, March 1989

Government Agencies and Industry

1. "Modeling measurement errors in physical activity data," New Zealand Ministry of Health, March 2012
2. "An overview of the National Resources Inventory," Statistics New Zealand, March 2012
3. "Modeling measurement errors in physical activity data," Westat, Rockville, MD, December 2011
4. "Modernizing the June Area Survey," National Agricultural Statistics Service, Fairfax, VA, October 2011
5. "Sample design alternatives for the June Area Survey," National Agricultural Statistics Service, Fairfax, VA, May 2011
6. "Applications of measurement error models to dietary intake and physical activity data," Centers for Disease Control, Atlanta, GA, August 2011
7. "Using digital tools for collecting data in the June Area Survey," National Agricultural Statistics Service, Fairfax, VA, June 2004
8. "Methodological research on mobile computing tools for field data collection," American Statistical Association Census Bureau Advisory Committee Meeting, Crystal City, VA, October 2003
9. "Computer-assisted survey data collection using geospatial data," National Agricultural Statistics Service, Fairfax, VA, May 2003
10. "Using digital geospatial information to locate sample units in the field," Bureau of Labor Statistics, Washington, DC, February 2002
11. "Using and collecting geospatial data in mobile field environments," Digital Government Consortium, Washington, DC, November 2001
12. "Project Battuta: using geospatial data in mobile field environments," Digital Government Consortium, Washington, DC, November 2000
13. "Geostatistical Control Data for the 1997 NRI," USDA NRCS, Beltsville, December 1998
14. "Computer-assisted survey information collection," USDA NRCS National Cartography and Geospatial Data Center, April 1998
15. "Statistical aspects of the National Resources Inventory," USDA NRCS National Cartography and Geospatial Data Center, May 1997
16. "Statistical aspects of conducting surveys," Workshop on watershed assessment, NRCS Watershed Sciences Institute, Charlotte, NC, April 1997

17. "Statistical approaches to soil survey updates," USDA National Soil Survey Center, Lincoln, NE, February 1996
18. "Estimating usual dietary intake distributions: adjusting for measurement error and normality in 24-hour food intake data," Proctor and Gamble, Cincinnati, OH, June 1995
19. "Estimating usual dietary intake distributions: adjusting for measurement error and normality in 24-hour food intake data," Agricultural Research Service, USDA, June 1995
20. "Estimating usual dietary intake distributions: adjusting for measurement error and normality in 24-hour food intake data," National Cancer Institute, May 1995
21. "Estimating usual intake distributions from food record and recall data," Human Nutrition Information Service, USDA, November 1993
22. "Estimating the distribution of usual nutrient intakes: a model-based approach," Human Nutrition Information Service, USDA, January 1990
23. "Estimating the distribution of usual nutrient intakes: a model-based approach," National Cancer Institute, January 1990
24. "Estimating the distribution of usual nutrient intakes," Human Nutrition Information Service, USDA, April 1988

Educational Institutions

1. "Adjusting for measurement error in physical activity data", JPSM Distinguished Lecture, Joint Program in Survey Methodology, University of Maryland, College Park, MD, April 2014.
2. "Modeling measurement errors in physical activity data," Massey University, New Zealand, March 2012
3. "Addressing measurement error in physical activity data," seminar series sponsored by Nutrition Wellness Research Center, Institute for Social and Behavioral Research, and Center for Survey Statistics and Methodology, Iowa State University, September 2009
4. "Evaluating sample designs for monitoring chronic wasting disease," Department of Natural Resource Ecology and Management, Iowa State University, April 2005
5. "Mobile computing and field data collection for statistical surveys," Department of Geography, University of Iowa, April 2003
6. "Survey methods for assessing land cover map accuracy," Institute for Social Research, University of Michigan, December 2002
7. "Geospatial data and survey data collection," Department of Statistics, Iowa State University, March 2002
8. "Using and collecting geospatial data in mobile field environments," Department of Geography, University of Iowa, April 2001
9. "Statistical Laboratory Survey Section: history and current activities," Department of Statistics (Iowa-Stat), Iowa State University, October 1998
10. "Statistical methods for soil survey updates," Department of Statistics, Texas A & M University, September 1997
11. "Statistical methods for soil survey updates," Department of Statistics, North Carolina State University, April 1997

12. "Estimating usual intake distributions for nutrients and foods," Department of Statistics, Harvard University, January 1995 (with A. L. Carriquiry)
13. "Conducting high quality survey research," Mayo Clinic, Rochester, MN, October 1994
14. "Estimating usual intake distributions from food record and recall data," Division of Biostatistics, University of Iowa, January 1994
15. "Estimating usual intake distributions from food record and recall data," Department of Food Science and Human Nutrition, Iowa State University, October 1993
16. "The Statistical Laboratory's Survey Section: perspectives on the past, present and future," Department of Statistics, Iowa State University, October 1993
17. "Failure time analyses for repeated measure event time data," Department of Statistics, Pennsylvania State University, November 1992
18. "A semiparametric transformation to normality: application to dietary data," Department of Statistics, Iowa State University, October 1991
19. "Failure time analyses for correlated data," Department of Statistics, Iowa State University, May 1990
20. "Estimating the distribution of usual nutrient intakes: a model-based approach," Center for Agricultural and Rural Development, Iowa State University, February 1989
21. "Estimating the distribution of usual nutrient intakes: a model-based approach," Department of Statistics, Iowa State University, October 1988

AFFILIATION WITH CENTER FOR SURVEY STATISTICS AND METHODOLOGY (CSSM)

Directed CSSM (and predecessor Statistical Laboratory Survey Section) 1992-2004 and 2007-2010.

Directed the ISU-USDA Natural Resources Conservation Service cooperative agreement activities for the National Resources Inventory (1992-2014), totaling approximately \$3 million per year. Also directed more recent ISU-Bureau of Land Management and ISU-USDA National Agricultural Statistics Service cooperative agreement activities through 2014. Projects involved 5 survey statistics faculty, 5-9 graduate students, 25 methodology and survey systems staff.

Consulted with on- and off-campus researchers on sample design, questionnaire development, coding, data quality, weighting, and statistical analysis. Clients include ISU faculty and graduate students, ISU administration officials and program directors, and researchers in state, federal and nonprofit agencies.

TEACHING

Courses Taught

Statistics 415 (1 cr)	Selection Bias and Measurement Error, Fall 2012
Statistics 401 (4 cr)	Statistical Methods for Research Workers in the Biological Sciences Spring 2013, Spring 2011, Spring 2010, Fall 2008, Fall 2007, Fall 2006, Fall 1996

Statistics 421 (3 cr)	Survey Sampling Techniques Spring 2005, Spring 2004, Spring 2003, Spring 2002, Spring 2000, Spring 1998, Spring 1995, Spring 1994
Ecology & Evolutionary Biology 698	Statistical Applications in Ecology and Evolutionary Biology Fall 1998 (4 weeks on survey sample design and estimation)

GRADUATE EDUCATION

Major Professor: MS

1. Cherié Alf (Summer 2008)
2. Nick Beyler (Summer 2007)
3. Joey Pan (Summer 2005)
4. Ling Huang (Summer 2005)
5. Courtney Kies (Spring 2003)
6. Lixin Qu (Spring 2003)
7. Jason Legg (Fall 2002)
8. Cristiano Ferraz (Fall 2001)
9. Carston Botts (Summer 2001)
10. Dorin Drignei (Spring 2000)
11. Kara Perritt (Fall 1997)
12. Heidi Shierholz (Spring 1996)
13. Pamela Abbitt Arroway (Fall 1995)
14. Zugeng Zheng (Summer 1995)
15. Kelli Leonard (Spring 1994)
16. Stephanie Schaller (Fall 1993)

Major Professor: PhD

1. Stephanie Zimmer (2018, co-directed with J. Kim)
2. Minsun Kim Riddles (2013, co-directed with J. Kim)
3. Nick Beyler (2010, co-directed with W. A. Fuller)
4. Emily Berg (2010, primarily directed by W. A. Fuller)
5. Michelle Rusch (2008, Human Computer Interaction, co-directed with L. L. Miller)
6. Jason Legg (2006, co-directed with W. A. Fuller)
7. Cristiano Ferraz (2004, co-directed with J. D. Opsomer)
8. Pamela Abbitt Arroway (1999, co-directed with F. J. Breidt)

MEMBERSHIPS (STATISTICS)

American Statistical Association
International Association of Survey Statisticians
International Statistical Institute

EXTERNAL PROFESSIONAL SERVICE

- 2013-2015 Member, Scientific Advisory Committee, Global Strategy to Improve Agricultural and Rural Statistics, UN Food and Agriculture Organization
- 2014 Member, Steering Committee on Data and Research to Improve the U.S. Food Availability System and Estimates of Food Loss: A Workshop, National Research Council
- 2013 Chair, External Review Panel for the Joint Program for Survey Methodology, University of Maryland, College Park
- 2012 Member, National Academies *Expert Panel Review of Proposed Dual-System Estimation Approach for the Census of Agriculture*, commissioned by the Committee on National Statistics
- 2011-2012 Member, National Academies *Panel on Redesigning the BLS Consumer Expenditure Surveys*, commissioned by the Committee on National Statistics
- 2009-2012 Member, Technical Working Group for the *National Household Food Purchase and Acquisition Survey*, Mathematica Policy Research
- 2009-2012 Member, National Academies *Panel on Estimating Children Eligible for School Nutrition Programs from the American Community Survey*, commissioned by the Committee on National Statistics
- 2009-2011 Chair-elect, Chair, Past-chair, Council of Sections Governing Board, American Statistical Association
- 2006-2011 Member and Chair (2009), Census Bureau Scientific Advisory Committee (formerly Advisory Committee of Professional Associations, American Statistical Association representative)
- 2010 Member, NIH Review Panel for Improving Diet and Physical Activity Assessment
- 2008-2009 Treasurer (2008) and Secretary (2009), Section on Statistics and the Environment, American Statistical Association
- 2005-2009 Member, Council of the International Association of Survey Statisticians
- 2007 Member, NIH Biostatistical Methods and Research Design (BRMD) Study Section Review Panel
- 2005-2007 Member, National Academies *Panel on Social Security Representative Payees*
- 2005-2007 Chair, 2007 Cochran-Hansen Prize Committee (for young statisticians in developing and transitioning countries), International Association of Survey Statisticians
- 1999-2002, 2004-2005, 2007 Organizer, *Workshop on technologies for survey data collection* (mobile computing, GIS, sensors) for annual FedCASIC Conference

- 2004-2006 Chair-elect, Chair, Past-chair, Survey Research Methods Section, American Statistical Association
- 2006 Member, NIH Improving Diet and Physical Activity Assessment (HOP D-50) Review Panel
- 2005 Member, External review committee for University of Nebraska – Lincoln Statistics Department
- 2002-2005 ASA representative (2002-2004) and IBS representative (2005) for Management Committee for the *Journal of Agricultural, Biological and Environmental Statistics*
- 2001-2005 Advisory Group for the Behavioral Risk Factor Surveillance System, Survey Research Methods Section, American Statistical Association
- 2004 Committee of Visitors (COV) to review NSF Division of Social and Economic Sciences programs in Methodology, Measurement, and Statistics; Science and Technology Studies; and Societal Dimensions of Engineering, Science, and Technology
- 2001-2002 Treasurer, Survey Research Methods Section, American Statistical Association
- 2001 Participant, *Workshop on the Intersection of Geospatial Information and Information Technology*, National Academies Computer Science and Telecommunications Board
- 2001 Guest Panelist, *Future Census Methods Research Panel*, National Academies Committee on National Statistics
- 2001 Scientific Committee, *Specialist Meeting on Location-based Services*, National Center for Geographic Information and Analysis
- 2000-2001 Panelist for NSF Survey Methodology proposal review (2 years)
- 2000-2001 Scientific Committee, 7th International Blaise Users Conference
- 1997-present National Selection Board for Undergraduate Internships in Federal Statistical Agencies
- 1996-2001 Survey Review Committee, American Statistical Association
- 1997-1999 Associate Editor for *Biometrics*
- 1997-1998 Organizing Committee, Conference on *Environmental Monitoring Surveys Over Time*, co-sponsored by Environmental Protection Agency, National Research Center for Statistics and the Environment, US Forest Service, Natural Resources Conservation Service.
- 1997-1998 Ad-hoc Committee on New Member Initiatives (Chair), Survey Research Methods Section, American Statistical Association
- 1995-1996 Publications Officer, Biometrics Section, American Statistical Association

1993-1994 Participant, Quantitative Literacy Program for Secondary Educators in Iowa,
American Statistical Association

IOWA STATE UNVIERSITY PROFESSIONAL SERVICE

University Programs and Committees

- 2009-2010 Member, Organizing committee for Nutrition and Wellness Research Center's 2010
symposium on *Methodological and Statistical Challenges in Obesity and Health
Research* (co-sponsored by ISBR and Center for Survey Statistics and Methodology and
by the Institute for Social and Behavioral Research)
- 1999-2010 GIS Facility Steering Committee
 - 2009 2050 Challenge Task Force for Research (input to ISU's 2010-2015 Strategic Plan)
 - 2005 Speaker, Frontiers of the Discipline (Physical and Mathematical Sciences), for
incoming College of Liberal Arts and Sciences undergraduates
 - 2004 Carver Trust Grants Review Committee
- 2003-2004 President's Task Force on Centers and Institutes
 - 1999 Presenter, Road Less Traveled Conference for High School Girls, Program for Women
in Science and Engineering
- 1997-1998 Search Committee for Director of Academic Information Technology
 - 1994 University Strategic Planning Committee for Information Technology
- 1992, 1993 Mentor, Program for Women in Science and Engineering Undergraduate Summer
Internships

Departmental Committees

- 2012-2014 Department of Statistics Chair Search Committee
- 2012-2014 Promotion and Tenure Committee
- 2012-2013 Curriculum Committee
 - 2012 Director of Statistical Consulting and of Survey & Behavioral Research Services Search
Committee
- 2007-2011 Advisor, ISU STATCOM (statistics graduate student service organization)
- 2010-2011 Memorial Lectures Committee (Chair)
- 2009-2011 Honors and Awards Committee
- 2009-2011 Advisory Committee to the Chair
- 2005-2009 Statistical Laboratory 75th Anniversary Committee (chair, 2008-2009)

- 2007-2008 Advisory Committee to the Chair
- 2003-2008 Promotion and Tenure Committee
- 2005-2007 Honors and Awards Committee
 - 2005 External Review Team Selection Committee
- 2002-2003 Survey Faculty Search Committee (Chair)
- 2002-2003 Graduate Admissions Committee
- 2001-2002 DEO Search Committee
- 2001-2002 Seminar Committee (Fall Chair)
- 2000-2001 Organizing Committee for Wayne Fuller 70th Birthday Conference (Chair)
- 2000-2001 Statistical Laboratory Strategic Planning Committee
- 1994-2001 Survey Faculty Search Committee (Chair: 1994-1995, 1996-1997, 1998-1999, 2000-2001)
- 1997-2000 Assistantship Evaluation Committee (Chair, 1998-2000)
- 1997-1998 Survey Section Self-Study Committee (Chair)
- 1996-1997 Statistical Laboratory, Statistical Computing Section Committee
- 1995-1996 Safety Committee
 - 1994 DEO Evaluation Committee
 - 1994 Statistical Laboratory Survey Section Strategic Planning Subcommittee (Chair)
- 1993-1994 Seminar Committee (Spring Chair)
- 1992-1993 Assistantship Evaluation Committee