

# TRENT D. BUSKIRK

# CURRICULUM VITAE

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## Education and Distinctions

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**Fellow of the American Statistical Association, 2017** with citation: “For contributions to survey statistics and methodology, including methods for analysis of nonprobability samples, nonresponse weighting adjustments, mobile data collection, and applications of data science to survey methodology; for enthusiastic contributions to continuing education forums; and for dedicated service to the profession.”

**Ph.D. in Statistics**, 1999, Department of Mathematics, Arizona State University, Tempe, AZ (GPA: 4.0/4.0), **Graduate College Fellow**, *Preparing Future Faculty Program*.

Dissertation: Using Nonparametric Methods for Density Estimation with Complex Survey Data.

Advisor: Dr. Sharon Lohr, Full Professor, Department of Mathematics, ASU.

**M.S. in Mathematics**, 1994, Department of Mathematics/Statistics, University of South Alabama, Mobile, AL (GPA: 4.0/4.0).

**B.S. in Mathematics**, 1992, Presbyterian College, Clinton, SC (GPA: 3.95/4.00).

**Post-Doctoral Course Work**, 2000, School of Public Health, The University of Michigan, Graduate Summer Session in Epidemiology and 2007, Claremont Graduate University Program in Evaluation Courses included:

- Clinical Epidemiology
- Design and Conduct of Clinical Trials
- Advanced Computing Methods for use in analyzing Survey Data such as NHANES III
- Computer Options for Variance Estimation using Survey Data
- Policy Analysis and Program Evaluation Methods in Health

## Current Position and Affiliations

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**Novak Family Distinguished Professor of Data Science and Past Chair, Department of Applied Statistics and Operations Research (with Tenure)** – College of Business, Bowling Green State University (01/2019 – Present).

**Affiliate Faculty**, Center for Family and Demographic Research, Bowling Green State University (February, 2019 – Present)

**Adjunct Research Professor** (March, 2020 – Present) Survey Research Center, Survey Methods Program, University of Michigan

**Member of Faculty of International Program in Survey and Data Sciences** (January, 2018 – Present), German Federal Ministry of Education and Research (BMBF)

**Affiliate Faculty** (January 2021 – Present) Social Data Science Center, University of Maryland

## Current Grant Funded Projects

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- **Principal Investigator (Summer, 2022 – Summer 2025)** “Why Did Judy go to Juvie? Using Explainable AI to Increase Equity and Transparency in the Juvenile Justice Systems Use of Risk Scores.” Submitted to the NSF Program on Fairness in Artificial Intelligence in Collaboration with Amazon. TOTAL FUNDED: \$629,993; NSF Award Number: 2147256. [https://nsf.gov/awardsearch/showAward?AWD\\_ID=2147256&HistoricalAwards=false](https://nsf.gov/awardsearch/showAward?AWD_ID=2147256&HistoricalAwards=false)
- **Consultant** (6/1/2021 – Present) Exploring Opinions and Perceptions of Privacy, Special Project funded by Facebook, Inc.
- **Member**, Technical Working Group (6/1/2021 – Present) Modernizing and Evaluating Imputation Strategies for Agricultural Surveys: National Agricultural Statistical Service (NASS) for the United States Department of Agriculture.
- **Consultant** (1/1/2020 – Present) Stanford Medicine's Community Alliance to Test Coronavirus at Home (CATCH) Study. Statistical Survey Design and Recruitment consultant. Project funded by the Chan-Zuckerburg Biohub.

## Prior Professional Experience

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**Professor of Management Information Systems (Data Science and Methodology) and Director of the Center for Survey Research** – University of Massachusetts-Boston, 08/2016 – 01/2019. Direct responsibility for the Center for Survey Research’s productivity, staffing, research oversight and operations and supervision of a staff of 10 academic professionals and faculty.

**Vice President of Statistics and Methodology** – Marketing Systems Group, 06/2013 – 08/2016. Lead a small team responsible for design, evaluation and weighting of statistical sampling plans and development of new technologies and offerings for sampling design and analysis. Total direct reports include 1 full time analyst as well as a total of 3 indirect reports.

**Research Director, Advanced Methods** – The Nielsen Company Center of Innovation, 01/2012 – 06/2013. Lead and provided thought leadership and advanced statistical analysis for various mobile and sampling design projects within the Measurement Science Division. Had no direct reports but various indirect reports through different projects.

**Associate Professor of Biostatistics (with Tenure)** – Saint Louis University School of Public Health, 07/2009 – 01/2012. Led teams of research analysts in the design, collection and analysis of health related data on various grant funded projects. Direct reports varied from 1 to three depending on the teams and projects.

**Assistant Professor of Biostatistics** – Saint Louis University School of Public Health, 08/2006 – 06/2009.

**Assistant Research Professor of Statistics** – Center for Research on Education in Science, Mathematics, Engineering and Technology (CRESMET), Arizona State University, 09/2005 – 07/2006.

**Assistant Professor of Statistics** – Graduate Program in Public Health and Epidemiology and Biostatistics Core, Eastern Virginia Medical School, Norfolk, VA, 11/2003 – 08/2005.

**Director of Sampling and Statistics** – Behavioral Research Department, American Cancer Society, National Home Office, Atlanta, GA (on leave from University of Nebraska), 08/2002 – 10/2003. Lead a

small team (myself and one direct report) of sampling statisticians supporting design and analysis aspects of two large national quality of life surveys.

**Assistant Professor of Statistics** – Department of Mathematics and Statistics and Survey Research and Methodology Program, University of Nebraska Lincoln, 08/1999 – 05/2002.

## Peer Reviewed Publications

(Google Scholar Citations (October, 2021): 1,835; h-index=21; i10-index=30)

1. Hinman, J., **Buskirk, T.D.**, Arensdorf, P. et al. (2022). Multi-Faceted Design Strategies for Broad Population Surveillance of SARS-CoV-2 Infection. Under Review for *JMIR Public Health and Surveillance*.
2. Dutwin, D., & **Buskirk, T. D.** (2022). A Deeper Dive into the Digital Divide: Reducing Coverage Bias in Internet Surveys. *Social Science Computer Review*, 08944393221093467.
3. **Buskirk, T. D.**, Blakely, B. P., Eck, A., McGrath, R., Singh, R., & Yu, Y. (2022). Sweet tweets! Evaluating a new approach for probability-based sampling of Twitter. *EPJ Data Science*, 11(1), 9.
4. Brenner, P. S., & **Buskirk, T. D.** (2022). Scratch the Scratch-off: Testing Prepaid and Conditional Incentives With Postcard and Letter Invitations in a Web-push Design With an Address-based Sample. *Field Methods*, 34(1), 20-35.
5. Dutwin, D., & **Buskirk, T. D.** (2021). Telephone sample surveys: dearly beloved or nearly departed? Trends in survey errors in the era of declining response rates. *Journal of Survey Statistics and Methodology*, 9(3), 353-380; available at: <https://doi.org/10.1093/jssam/smz044>
6. Matthiesen, M. I., Baker, K., Shapiro, J., Chang, Y., **Buskirk, T. D.**, & Wright, D. E. (2019, October). Resident identification of feedback and teaching on rounds. In *Baylor University Medical Center Proceedings* (Vol. 32, No. 4, pp. 525-528). Taylor & Francis.
7. Fowler Jr, F. J., Brenner, P. S., **Buskirk, T. D.**, & Roman, A. (2019). Telephone health survey estimates: Effects of nonresponse and sample limitations. *Health services research*, Vol. 54(3), pp. 700-706.
8. Hill, C. A., Biemer, P. P., **Buskirk, T. D.**, Callegaro, M., Cordova Cazar, A. L., Eck, A., ... & Sturgis, P. (2019, April). Exploring new statistical frontiers at the intersection of survey science and Big Data: Convergence at "BigSurv18." *Survey Research Methods* (Vol. 13, No. 1).
9. English, N. Kennel, T., **Buskirk, T.D.**, Harter, R. (2019) "The Construction, Maintenance and Enhancements for Address-Based Sampling Frames," *Journal of Survey Statistics and Methodology*, Volume 7, Issue 1, March 2019, Pages 66–92, <https://doi.org/10.1093/jssam/smy003>
10. Weaver NL, **Buskirk TD**, Jupka K, Williams J. Organizational factors related to the adoption of an injury prevention program by U.S. children's hospitals. *Transl Behav Med.* 2019;9(4):768-776. doi:10.1093/tbm/iby038
11. RM Harter, JP McMichael, DS Brown, A Amaya, **TD Buskirk**, D. Malarek (2017) "Telephone Appends for Address-based Samples - An Introduction" *RTI Press*: <https://www.rti.org/sites/default/files/resources/rti-publication-file-b10458e6-44b3-44b0-8d99-b9200df87f79.pdf>
12. Michael P. Battaglia, Don A. Dillman, Martin R. Frankel, Rachel Harter, **Trent D. Buskirk**, Cameron B. McPhee, Jill M. DeMatteis, Tracey Yancey; Sampling, Data Collection, and Weighting Procedures for Address-Based Sample Surveys. *J Surv Stat Methodol* 2016; 4 (4): 476-500. doi: 10.1093/jssam/smw025
13. Dutwin, D. and **Buskirk, T.D.** (2016) "Apples to Oranges or Gala versus Golden Delicious? Comparing Data Quality of Non-Probability Internet Samples to Low Response Rate Probability Samples," in press for *Public Opinion Quarterly*, 81 (S1): 213-239.
14. **Buskirk, T.D.**, Saunders, T. and Michaud, J. (2015) "Are Sliders Too Slick for Surveys: An Experiment comparing slider scales for survey data collection using Computers, Tablets and Smartphones," *Methods and Data Analysis*, Vol. 9(2), pp. 229-260. Available at:

<http://www.gesis.org/fileadmin/upload/forschung/publikationen/zeitschriften/mda/Vol.9 Heft 2/MD A Vol9 2015-2 Buskirk.pdf>

15. **Buskirk, T.D.** & Kolenikov S. (2015), Finding Respondents in the Forest: A Comparison of Logistic Regression and Random Forest Models for Response Propensity Weighting and Stratification. *Survey Methods: Insights from the Field, Weighting: Practical Issues and 'How to' Approach*. Retrieved from <http://surveyinsights.org/?p=5108>
16. Link, M.W., Murphy, J., Schober, M.F., **Buskirk, T.D.**, Childs, J.H. and Tesfaye, C.L. (2014). Mobile Technologies for Conducting, Augmenting and Potentially Replacing Surveys: Executive Summary of the AAPOR Task Force on Emerging Technologies in Public Opinion Research, *Public Opinion Quarterly*, Vol. 78 (4), 779-787.
17. **Buskirk T. D.** and Andrus C. (2014) Making Mobile Surveys Smarter: Results from an Experiment Comparing Smartphone and Computer Online Surveys," *Field Methods*, vol. 26, 4: pp. 322-342.
18. Weaver, N.L., Kortlandt, V., Williams, J., Jupka, K., **Buskirk, T.D.**, Maalouf, S., Biddinger, S., Hanson, N. and Hill, K.S. (2014). "Assessing Community-Based Injury Prevention Services in U.S. Children's Hospitals." *AIMS Public Health*, Vol. 1(4), pp. 199-210. Available at: <http://www.aimspress.com/article/10.3934/PublicHealth.2014.4.199/pdf>
19. Kaphingst KA, Weaver NL, Wray RJ, Brown ML, **Buskirk T** and Kreuter MW (2014). Effects of patient health literacy, patient engagement and a system-level health literacy attribute on patient-reported outcomes: a representative statewide survey. *BMC Health Services Research*, 14: 475
20. Vijaykumar, S., Wray, R. and **Buskirk, T.D.** (2014) Influence of Contextual Factors on Participation in an Online Health Social Movement. *Cyberpsychology, behavior and social networking*, 17(7): 488-495.
21. **Buskirk, T.D.**, Callegaro, M. and Rao, K. (2010) 'N the Network'? Using Internet Resources for Predicting Cell Phone Number Status. *Social Science Computer Review: Special Issue on Mobile Surveys*, Vol. 28, No. 3, 271-286.
22. Eddens KS, Kreuter MK, Morgan JC, Beatty KE, Jasim SA, Garibay L, Tao D, **Buskirk TD**, Jupka KA. (2009) "Disparities by race/ethnicity in cancer survivor stories on the Web," *J Med Internet Res*. Vol. 11, No. 4 doi:10.2196/jmir.1163 <http://dx.doi.org/10.2196/jmir.1163>
23. Racette SB, Deusinger SS, Inman CL, Burlis TL, Highstein GR, **Buskirk TD**, Steger-May K, Peterson LR. (2009) "Worksite Opportunities for Wellness (WOW): Effects on Cardiovascular Disease Risk Factors After 1 Year," *Preventive Medicine*, Vol. 49, pp. 108-114.
24. Wray RJ, **Buskirk TD**, Jupka K, Lapka C, Jacobsen H, Pakpahan R, Gary E and Wortley P. (2009) "Influenza Vaccination Concerns Among Older Blacks: A Randomized Controlled Trial," *American Journal of Preventive Medicine*, Vol. 36(5), pp. 429-434.
25. **Buskirk, T.D.** and Stein, K. (2008) "Telephone versus mail survey gives different SF-36 Quality of Life Scores Among Cancer Survivors," *Journal of Clinical Epidemiology*, Vol. 61, pp. 1049-1055.
26. Kreuter M.W., **Buskirk T.D.**, Holmes K, Clark E.M., Robinson L., Si X., Rath S., Erwin D., Philipneri A., Cohen E., Matthews K. (2008) What makes cancer survivor stories work? An empirical study among African American women. *Journal of Cancer Survivorship*, Vol. 2, pp. 33-44.
27. Mendez, G., **Buskirk, T.D.**, Lohr, S. and Haag, S. (2008) Factors Associated with Persistence in Science and Engineering Majors: An Exploratory Study Using Random Forests. *Journal of Engineering Education*, Vol. 97, No.1, pp. 57-70.
28. Scoville, S.A. and **Buskirk, T.D.** (2007) Traditional and Virtual Microscopy Compared Experimentally in a Classroom Setting, *Clinical Anatomy*, Vol. 20, No. 5, pp. 565-570. PUBMED ID: 17109440
29. Callegaro, M., Steeh, C., **Buskirk, T.D.**, Piekarski, L., Vehovar, V., Kuusela. (2007) "Fitting disposition codes to mobile phone surveys: experiences from studies in Finland, Slovenia and the USA" *The Journal of the Royal Statistical Society- SERIES A*, Vol. 170, part 3, pp. 647-670.
30. Steeh, C.G., **Buskirk, T.D.** and Callegaro, M. (2007) "Using Text Messages in Mobile Phone Surveys," *Field Methods*, Vol. 19, No.1, pp. 59-75.
31. Smith, T., Stein, K., Mehta, C., Kaw, C., Kepner, J., **Buskirk, T.D.**, Stafford, J. and Baker, F. (2006) The Rationale, Design, and Implementation of the American Cancer Society's Studies of Cancer Survivors, *Cancer*, Vol. 109, No.1, pp.1-12.

32. Vorona, R.D., Ware, C.J., **Buskirk, T.D.** (2005) "Regression" of Adiposity With More Sleep. *Archives of Internal Medicine*, Vol. 165 Issue 11, p1314-1315
33. **Buskirk, T.D.** and Lohr, S. (2005) "Asymptotic properties of kernel density estimation with complex survey data." *Journal of Statistical Planning and Inference*, 128, pp. 165-190.
34. Defrank, J., Stein, K., Baker, F., **Buskirk, T.D.**, Kim, Y., & Sayaloune, D. (2004) "Self-reported barriers to the management of cancer-related pain." *Psycho-oncology*, 13 (1), pp. S52-S53.
35. Stein, K., Kim, Y., **Buskirk, T.D.**, DeFrank, J., Sayaloune, D., & Baker, F. (2004) "Impact of spouses' negative reaction to cancer diagnosis and treatment on long-term survivors' current psychological distress." *Psycho-oncology*, 13 (1), pp. S5-S5).
36. **Buskirk, T.D.** and Meza, J. (2003). "A Post-stratified Raking-ratio Estimator Linking National and State Survey Data for Estimating Drug Use," *Journal of Official Statistics*, Vol. 19 No. 3.
37. **Buskirk, T. D.** and Young, L. J. (2001). "Regression on the Rebound," *Statistics Teaching and Resource Library* [online]. August 29, 2001  
([http://www.starlibrary.net/activities/buskirk\\_young2001.htm](http://www.starlibrary.net/activities/buskirk_young2001.htm)).

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## Published Books and Book Reviews

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Hill, C. A., Biemer, P. P., **Buskirk, T. D.**, Japac, L., Kirchner, A., Kolenikov, S., & Lyberg, L. E. (Eds.). (2020). *Big Data meets survey science: A collection of innovative methods*. John Wiley & Sons.

**Buskirk, T.D.** (2009) J.M. Lepkowski, C. Tucker, J.M. Brick, E.D. de Leeuw, L. Japac, P.J. Lavrakas, M.W. Link and R.L. Sangster, (eds.). *Advances in Telephone Survey Methodology* (2008). Hoboken, NJ: John Wiley and Sons, ISBN 978-0-471-74531-0, 617pps; *Journal of Official Statistics*, Vol. 25, No. 1, pp. 155-160.

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## Book Chapters/Entries

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1. **Buskirk, T. D.** (2020). Big Data. In P. Atkinson, S. Delamont, A. Cernat, J.W. Sakshaug, & R.A. Williams (Eds.), SAGE Research Methods Foundations. doi: 10.4135/9781526421036943171.
2. Big Data Meets Survey Science: A Collection of Innovative Methods, First Edition. Edited by Craig A. Hill, Paul P. Biemer, **Trent D. Buskirk**, Lilli Japac, Antje Kirchner, Stas Kolenikov, and Lars E. Lyberg. © 2020 John Wiley & Sons, Inc. Published 2020 by John Wiley & Sons, Inc.
3. **Buskirk, T.D.** and Kirchner, A. (2020) "Why Machines Matter for Survey and Social Science Researchers: Exploring Applications of Machine Learning Methods to Design, Data Collection and Analysis," in: *Big Data Meets Survey Science: A Collection of Innovative Methods, First Edition*. Edited by Craig A. Hill, Paul P. Biemer, **Trent D. Buskirk**, Lilli Japac, Antje Kirchner, Stas Kolenikov, and Lars E. Lyberg. © 2020 John Wiley & Sons, Inc. Published 2020 by John Wiley & Sons, Inc.
4. **Buskirk, T.D.**, Willoughby, L. and Tomazic, T. (2013) "Nonparametric Statistical Methods," Chapter 6 in *The Oxford Handbook of Quantitative Methods, Vol. 2: Statistical Analysis*, Little, T.D. (ed), Oxford University Press, New York, ISBN 10: 0199934894.
5. **Buskirk, T.D.** and Callegaro, M. (2008) "Cell Phone Sampling" in *Encyclopedia of Survey Research Methods* (P.J. Lavrakas, Editor) © 2008, Sage Publications, Ltd. doi: 10.4135/9781412963947, pp. 85-89.
6. **Buskirk, T.D.** (2008) "Dual Frame Sampling" in *Encyclopedia of Survey Research Methods* (P.J. Lavrakas, Editor) © 2008, Sage Publications, Ltd. doi: 10.4135/9781412963947, pp. 213-215.
7. **Buskirk, T.D.** and Shelton, S. (2008) "Rho: Intraclass Correlation Coefficient" in *Encyclopedia of Survey Research Methods* (P.J. Lavrakas, Editor) © 2008, Sage Publications, Ltd. doi: 10.4135/9781412963947, pp. 765-767.
8. **Buskirk, T.D.** (2008) "Statistical Power" in *Encyclopedia of Survey Research Methods* (P.J. Lavrakas, Editor) © 2008, Sage Publications, Ltd. doi: 10.4135/9781412963947, pp. 845-846.

9. **Buskirk, T.D.** (2008) "Sampling Interval" in *Encyclopedia of Survey Research Methods* (P.J. Lavrakas, Editor) © 2008, Sage Publications, Ltd. doi: 10.4135/9781412963947, pp. 792-793.
10. **Buskirk, T.D.** (2008) "Standard Error of the Mean" in *Encyclopedia of Survey Research Methods* (P.J. Lavrakas, Editor) © 2008, Sage Publications, Ltd. doi: 10.4135/9781412963947, p. 840.
11. **Buskirk, T.D.** "Parameter" in *Encyclopedia of Survey Research Methods* (P.J. Lavrakas, Editor) © 2008, Sage Publications, Ltd. doi: 10.4135/9781412963947, p. 577.
12. **Buskirk, T.D.** "Point Estimate" in *Encyclopedia of Survey Research Methods* (P.J. Lavrakas, Editor) © 2008, Sage Publications, Ltd. doi: 10.4135/9781412963947, p. 586.
13. **Buskirk, T.D.** "Interval Estimate" in *Encyclopedia of Survey Research Methods* (P.J. Lavrakas, Editor) © 2008, Sage Publications, Ltd. doi: 10.4135/9781412963947, p. 362.
14. **Buskirk, T.D.** "P-Value" in *Encyclopedia of Survey Research Methods* (P.J. Lavrakas, Editor) © 2008, Sage Publications, Ltd. doi: 10.4135/9781412963947, p. 648.
15. **Buskirk, T.D.** "Significance Level" in *Encyclopedia of Survey Research Methods* (P.J. Lavrakas, Editor) © 2008, Sage Publications, Ltd. doi: 10.4135/9781412963947, p. 820.

## Peer-Edited/Invited Publications

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1. **Buskirk, T.D.** (2018) "Surveying the Forests and Sampling the Trees: An overview of Classification and Regression Trees and Random Forests with applications in Survey Research" Vol. 11, Issue 1, 2018. Available at: <https://www.surveypractice.org/article/2709-surveying-the-forests-and-sampling-the-trees-an-overview-of-classification-and-regression-trees-and-random-forests-with-applications-in-survey-research>
2. **Buskirk, T.D.**, Kirchner, A., Eck, A. and Signorino, C. (2018) "An Introduction to Machine Learning Methods for Survey Researchers." Survey Practice; Vol. 11, Issue 1 Available at: <https://www.surveypractice.org/article/2718-an-introduction-to-machine-learning-methods-for-survey-researchers>
3. **Buskirk, T.D.** and Andrus, C. (2012) Buskirk, Trent D. and Charles Andrus. 2012. "Smart Surveys for Smart Phones: Exploring Various Approaches for Conducting Online Mobile Surveys via Smartphones" Survey Practice, February: [www.surveypractice.org](http://www.surveypractice.org).
4. **Buskirk, T.D.** (2015). "Emerging Technologies: The Rise of Mobile Devices: From Smartphones to Smart Surveys." *The Survey Statistician*, No. 72, pp. 25-25. Available at: <http://isi-iass.org/home/wp-content/uploads/N72.pdf>

## Submitted Abstracts/Research Notes (bold-face indicates peer-refereed)

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- Scoville, S. A. and T. D. Buskirk, Experimental Comparison of Two Instructional Methods for Teaching Medical Histology: Traditional Microscopy and Virtual Microscopy, The FASEB Journal, March 4, 2005, Vol. 19:4, 193.3
- Gilbert, D. A., Schnarrs, R.H., Buskirk, T.D. (Sept., 2005) "Three-Dimensional Body Scanner; an Aid in Planning Body Contouring," submitted for Plastic Surgery 2005 conference sponsored by the American Society of Plastic Surgeons.
- **Stein, K.D., Buskirk, T.D., Denniston, M., Dent, M., Thompson, J., & Baker, F. (2003). "Effects of mail versus Telephone Administration of the Medical Outcome Survey-Short Form-36 (MOS-SF-36) in sample of cancer survivors." Published Abstract, Society for Behavioral Medicine, Special Session Series**

## Publications Currently in Preparation

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- Eck, A., **Buskirk, T.D.**, Shao, H. and Stefek, P. (2021) “Eye Spy A PSU! Automating Sampling Frame Construction from Aerial Images using Machine Learning,” Under Review for *Social Science Computer Review*
- Ingrid Oakley-Girvan, Miller, Y., Hancock, J. **Buskirk, T.D.** et al. (2022) “Rapid Population Health Surveillance in the Covid-19 Era: A New Methodologic Approach,” In preparation for *Lancet: Public Health*.
- Buskirk, T.D.** et al. (2022) “Two Thumbs Up: The Costs and Yield from using Facebook to Recruit Participants for a COVID Surveillance Panel Study,” In preparation for *JMIR Public Health and Surveillance*.
- Buskirk, T. D.** and Kirchner, A. (2021) “Sizing up Big Data: Exploring the Potential and Peril of Alternate Data Sources for Survey Research,” In preparation for *Journal of Information Science*

## Other Professional Publications

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1. Buskirk, Trent D., Philip S. Brenner and Russell K. Schutt. (2017). “Beacon: The Boston Panel Study.” *Social Innovations Journal*, Boston Edition, Issue 41, available at: <http://www.socialinnovationsjournal.org/editions/issue-41/75-disruptive-innovations/2685-beacon-the-boston-panel-study>
2. Karberg, J.C., Frandsen, R.J., Durso, J.M., **Buskirk, T.D.** and Lee, A.D. (2016) “Background Checks for Firearm Transfers, 2013–14 - Statistical Tables” U.S. Department of Justice, Office of Justice Programs, Bureau of Justice Statistics publication number: NCJ 249849, available at: <http://www.bjs.gov/content/pub/pdf/bcft1314st.pdf>
3. Flores-Cervantes, I., Jans, M. and **Buskirk, T.D.** (2014). Exploring the Impact of Various Control Total Sources for Adjusting for the Cell-only Population in the California Health Interview Survey. In *JSM Proceedings*, Survey Research Methods Section, American Statistical Association, pp. 4538-4548. ([https://www.amstat.org/membersonly/proceedings/2014/data/assets/pdf/400295\\_500823.pdf](https://www.amstat.org/membersonly/proceedings/2014/data/assets/pdf/400295_500823.pdf))
4. **Buskirk, T.D.**, Malarek, D. and Bareham, J. (2014). From Flagging a Sample to Framing It: Exploring Vendor Data that can be appended to ABS samples. In *JSM Proceedings*, Survey Research Methods Section, American Statistical Association, pp. 111-124. ([https://www.amstat.org/membersonly/proceedings/2014/data/assets/pdf/310689\\_85986.pdf](https://www.amstat.org/membersonly/proceedings/2014/data/assets/pdf/310689_85986.pdf))
5. Dohrmann, S., **Buskirk, T.D.**, Hyon, A. and Montaquila, J. (2014). Address Based Sampling Frames for Beginners. In *JSM Proceedings*, Survey Research Methods Section, American Statistical Association. 1009-1018. ([https://www.amstat.org/membersonly/proceedings/2014/data/assets/pdf/311401\\_87449.pdf](https://www.amstat.org/membersonly/proceedings/2014/data/assets/pdf/311401_87449.pdf))
6. **Buskirk, T.D.** and Andrus, C. (2012) Buskirk, Trent D. and Charles Andrus. 2012. “Smart Surveys for Smart Phones: Exploring Various Approaches for Conducting Online Mobile Surveys via Smartphones” *Survey Practice*, February: [www.surveypractice.org](http://www.surveypractice.org).
7. **Buskirk, T.D.** and Best, J. (2012) “Venn Diagrams, Probability 101, and Sampling Weights Computed from Dual-Frame Telephone RDD Designs,” In *JSM Proceedings*, Survey Research Methods Section, American Statistical Association, pp. 3696-3710. [https://www.amstat.org/sections/SRMS/Proceedings/y2012/Files/304351\\_72969.pdf](https://www.amstat.org/sections/SRMS/Proceedings/y2012/Files/304351_72969.pdf)
8. **Buskirk, T.D.** (2011) Estimating Design Effects for Means, Proportions and Totals Using SAS Proc Survey Means, Paper # SA-11, Proceedings of the Midwest SAS User Group. <http://www.mwsug.org/proceedings/2011/stats/MWSUG-2011-SA11.pdf>
9. **Buskirk, T.D.** Callegaro, M & Steeh, C. (2004) “Text 2 U: Using Text Messaging for Surveying U.S. Mobile Phone Subscribers,” *Proceedings of the American Statistical Association*, Statistical Computing Section [CD-ROM], Alexandria, VA: American Statistical Association.

10. **Buskirk, T.D.**, Joseph, J. and Nylund, K. (2002) "Surveying Teens: Issues related to data collection in substance abuse surveys," *Proceedings of the Section on Survey Research Methods*, American Statistical Association, CD-ROM.
11. Lohr, S. and **Buskirk, T.D.** (1999) "Density Estimation with Complex Survey Data," 1999 Proceedings of the Survey Methods Section, Statistical Society of Canada.
12. **Buskirk, T.D.** (1999) "Employment 200 — Prerequisite: Job Search 101," *Preparing Future Faculty: The Interview*, Preparing Future Faculty Occasional Paper Series (submitted by invitation).
13. **Buskirk, T.D.** (1998) "Nonparametric Density Estimation Using Complex Survey Data," *Proceedings of the Section on Survey Research Methods*, American Statistical Association, 799-801.
14. **Buskirk, T.D.** (1997) "Taking Cooperation for a Spin," *Preparing Future Faculty: The Student Perspective*, Preparing Future Faculty Occasional Paper Series.

## Prior Grant Activity and Funding

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- CONTRACT – FUNDED (PI Kreuter, F.) 8/2021 – Present. "Privacy Influencers and Narratives" Building a representative panel of key parties for understanding the importance and influence of privacy in the digital space. Project funded through a grant from FACEBOOK. Role: Collaborator.
- GRANT – SUBMITTED (PI Buskirk, TD) 8/3/2021 "FAI: Why did Judy go to Juvie? Using Explainable AI to increase Equity and Transparency in the Juvenile Justice System's Use of Risk Scores" Submitted to NSF, Fairness in Artificial Intelligence in the Division of Information and Intelligent Systems.
- CONTRACT – FUNDED (PI Kreuter, F and Lee, A.) 9/2021 – Present. "Exploring New Methods for Imputation and Editing Rules for Agricultural Surveys in the United States." Role: Technical Advisory Team Member.
- CONTRACT – FUNDED (PIs **Buskirk, TD**) 5/30/2017 – 10/01/2017; \$30,000. "Assessing Demand for a Boston ID Card" Awarded a subcontract from the City of Boston through The Triage Group to assess demand of a municipal ID card among Boston Residents.
- GRANT – FUNDED (PIs: Schutt,R, **Buskirk, TD** and Brenner, P.) 7/1/2017 – 6/30/2018; \$30,000. "BEACON – Your City, Your Voice: Building the Boston Area Panel." Submitted and FUNDED as a proposal for the Creative Economy Initiatives Fund, University of Massachusetts System-wide Grant.
- Business Competition Application – FUNDED. 8/2012 – 6/2013. Sawtooth Technologies Business Competition for Applications of CONJOINT Analysis in Survey Research: Using CONJOINT Analysis techniques to explore survey respondents' mode choice for multimode surveys using emerging technologies. Role: Principal Investigator.
- GRANT – FUNDED – (Weaver, N.) 9/1/2010 – 8/31/2012 Center for Disease Control and Prevention Role: Co-Investigator, 15% FTE. Note: the role of co-investigator for this grant involved development of both the scientific inquiry and overall approach as well as conducting and overseeing statistical analyses.
- GRANT – FUNDED – Presidential Research Award (Buskirk, T.D.) 2/1/2010 – 1/31/2011 **Saint Louis University \$25,000**; An App a day could keep the doctor away: Tracking the use of smartphone apps for public health prevention. Role: Principal Investigator
- Contract – AWARDED – Wray, R. 7/1/08-6/30/09  
Centers for Disease Control and Prevention, Office of Smoking and Health:  
Communication polling research for emerging tobacco related topics. [\$249,345] Role: Co-Investigator (20% FTE). Note the co-investigator role for this grant involved overseeing, managing and conducting all statistical testing, planning and analysis. The role also included consultation and oversight of data collection methodologies.
- 5P50CA095815-05 – AWARDED – (Kreuter, M) 09/2006 – 9/2008  
NIH / NCI \$1,228,224.00 Centers of Excellence in Cancer Communications Research  
The ultimate goal of this CECCR is to enhance the effectiveness of cancer communication among African Americans. Role: Co-investigator- statistical consultant (20% FTE). Note: The role of co-

investigator for this grant involved overseeing a team of statistical analysts as well as providing leadership and consultation on data collection methods and experimental testing/design.

- HHSN – AWARDED – (Leet, T) 9/28/2007 – 9/27/2012  
NIH / NICHD \$1,200,777 National Children’s Study, St. Louis Site  
The major aims are to study the health and development of children by seeking information to prevent and treat some of the nation’s most pressing health problems, including autism, birth defects, diabetes, heart disease and obesity. Role: Sample Survey Statistical Consultant
- R01 (CD 000643) – AWARDED – Racette, SB (PI) 09/30/2007 – 09/29/2008, CDC, Worksite Opportunities for Wellness: The major aims of this study are to evaluate the public health impact, cost-benefit, cost-effectiveness and adaptability of our worksite health promotion program “Worksite Opportunities for Wellness” (WOW). Role: Principal Investigator for the Sub-Award. Oversaw a small team of statistical analysts and provided consultation and conduct of advanced statistical modeling, testing and evaluation. Also provided consultation on data collection and experimental design.
- Buskirk, T. D. (September 2004) “Developing a Stratified Cluster Double Sampling Design for Improving Health Registry Based Surveys,” Submitted to PRIDE (Primary Care Infrastructure, Development and Education) Grant Committee, Eastern Virginia Medical School, Norfolk, VA. **FUNDED.** Role: Principal Investigator.
- Buskirk, T.D. with Bilder, C. (December 2001) Big 12 Faculty Fellowship applicant for: “Using PDA’s for Personal Data Analysis in Introductory Statistics Courses.” (Not Funded.) Role: Principal Investigator.
- Buskirk, T.D. (March, 2000) “Implementing Density Estimation within the Complex Survey Context,” **Awarded** a Gallup Professorship, UNL Gallup Research Center, Lincoln, NE for the 2000-2001 Academic Year. Role: Principal Investigator.
- Buskirk, T.D. (Investigator) (October, 1999) “Implementation of a Nonparametric Density Estimator for Complex Survey Data.” Submitted as a Type II proposal to Nebraska EPSCOR, Lincoln, NE. (Not Funded) Role: Principal Investigator
- Buskirk, T.D., Maiti, T. (October, 1999) “Creating ‘Statistical Computing 101.’” Submitted as a Teaching Enhancement Proposal to UNL Teaching Council, Lincoln, NE. (**Awarded** \$3,500.00 for this proposal by the UNL Teaching Council.) Role: Principal Investigator.

## Short-Courses, Workshops and Webinars

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- Buskirk, T.D. (2017) “A Syntax-free Introduction to R” Workshop presented for The Analysis Institute; <http://theanalysisinstitute.com/online-workshops/>
- Buskirk, T.D. and Brenner, P. (2017) “How To Do Text Message Surveys,” Webinar presented to the American Association of Public Opinion Research; <http://www.aapor.org/Education-Resources/Online-Education/Webinar-Details.aspx?webinar=WEB0217>
- Buskirk, T.D. and Eck, A. (2017) “Into the Stream: An Introduction to Big Data Access for Survey Researchers and Social Scientists,” 72<sup>nd</sup> Annual American Association of Public Opinion Research Conference.
- Buskirk, T.D. (2016) “Introduction to Web Scraping and the Use of Big Data for Survey Researchers and Social Scientists,” National Center for Education Statistics.
- Buskirk, T.D., Yancey, T. and Harter, R. (2016). “ABS Sampling Task Force Report Overview,” Webinar prepared for AAPOR; <http://www.aapor.org/Education-Resources/Reports/Address-based-Sampling.aspx>
- Buskirk, T.D. (2016) “R for SPSS Users: A User Friendly Introduction Using Rcommander” Webinar presented for the AAPOR Webinar Series; <http://www.aapor.org/Education-Resources/Online-Education/Webinar-Details.aspx?webinar=WEB0416>

- Buskirk, T.D. (2016) “Introduction to Big Data and Machine Learning for Survey Researchers and Social Scientists.” Short Course presented at 2016 Data Matters Summer Program, University of North Carolina, Chapel Hill.
- Buskirk, T.D. and Kolenikov, S. (2016) “Principles and Methods for Weighting Survey Data: An Easy Intro to the “Hardest” Part.” Short Course Presented at the 71<sup>st</sup> Annual Meeting of the American Association of Public Opinion Research, Austin, TX.
- Buskirk, T.D. and Kreuter, F. (2016) “A Small Course on Big Data for Survey Researchers.” Short Course Presented for the 2016 Statistics Symposium, Statistics Canada, Ottawa.
- Buskirk, T.D. and Kreuter, F. (2015) "A Small Course on Big Data for Survey Researchers." Short Course Presented at the 2015 International Total Survey Error Conference, Baltimore, MD.
- Buskirk, T.D. (2015) "Emerging Technologies in Surveys" Short course presented at the 30<sup>th</sup> Anniversary Conference of the Journal of Official Statistics, Stockholm, Sweden.
- Buskirk, T.D. and Kreuter, F. (2015) "A Small Course on Big Data for Survey Researchers." Short Course Presented at the 70<sup>th</sup> Annual Conference of the American Association of Public Opinion Research.
- Buskirk, T.D. (2015) “R for SPSS Users: A User Friendly Introduction using RCommander and LessR,” Workshop presented for The Analysis Institute; <http://theanalysisinstitute.com/online-workshops/>
- Buskirk, T.D. (2015) “A Gentle Introduction to Propensity Score Adjustments and Analysis” Webinar presented for the “Statistically Speaking” Series, The Analysis Institute; <http://theanalysisinstitute.com/data-analysis-brown-bag/>.
- Buskirk, T.D. (2015). "Smarter Smartphone Surveys" mini workshop presented at the Meet the Masters Event, New York Association of Public Opinion Research.
- Buskirk, T.D. (2014) “Online Workshop: Introduction to Analysis of Complex Survey Data Using SPSS” prepared for The Analysis Institute; <http://theanalysisinstitute.com/complex-surveys/>
- Buskirk, T.D. (2014) “Going Mobile with Survey Research: Design, Data Collection, Sampling and Recruitment Considerations for Smartphone and Tablet Based Surveys,” Short course presented at the 69<sup>th</sup> Annual Conference of the American Association of Public Opinion Research
- Buskirk, T.D. (2013) “Smarter Smartphone Surveys 201: Data Collection Methods and Survey Design Considerations,” Webinar presented to the American Association of Public Opinion Research, [http://www.aapor.org/source/education/webinar\\_details.cfm?mtg=WEB0913#.UwutDIV5GWE](http://www.aapor.org/source/education/webinar_details.cfm?mtg=WEB0913#.UwutDIV5GWE)
- Buskirk, T.D. and Kolenikov, S. (2013) “Sample Weighting 202: Beyond the Basics,” Short Course presented at training session for the Pacific Association of Public Opinion, Los Angeles, CA.
- Kolenikov, S. and Buskirk, T.D. (2013) “Sample Weighting 201: Basics, BOOSTERs and Beyond,” Short Course presented at the 68<sup>th</sup> Annual Meeting of the American Association of Public Opinion Research, Boston, MA.
- Buskirk, T.D. (2012) “Translating New Technology into New Survey Modes: Insights on Emerging Best Practices for Data Collection using Modern Technologies,” Workshop Presented at Quarterly NYAPOR meeting, New York, NY.
- Link, MW and Buskirk, TD. (2012) “The Role of New Technologies in Powering, Augmenting, or Replacing Traditional Surveys,” Short Course Presented at the 67<sup>th</sup> Annual Meeting of the American Association of Public Opinion Research, Orlando, FL.
- Buskirk, T.D. (Nov, 2011) “Making Surveys As Smart As Your Smartphone,” Short Course offered at the 36<sup>th</sup> Annual Midwest Association of Public Opinion Research (MAPOR) Conference, Chicago, IL.

## Conference Presentations

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- Brenner, P., Buskirk, T.D. and Schutt, R. (2018) Shining a “Beacon” on Economic Inequality and Mobility in Boston. Presented at the 2018 Annual BARI Conference, Boston, MA.

- Buskirk, T.D., Cripps, L. Rubenstein, J. and Cosenza, C. (2018) I'll Take "Respondent Answers" for \$1000, Alex: Fielding Respondent Answers as Survey Questions using Pair-wise Wiki Surveys Administered to Probability and Non-Probability Samples; Paper presented at the 73<sup>rd</sup> annual conference of the American Association of Public Opinion Research, Denver, CO.
- Buskirk, T.D. and Eck, A. (2018) Snakes in the GaRden: An Introduction to Computing for Budding Survey Data Scientists; PORTAL Presentation given at the 73<sup>rd</sup> annual conference of the American Association of Public Opinion Research, Denver, CO.
- Keusch, F. and Buskirk, T.D. (2018) Getting Persnickety about Pair-Wise Wikis: Investigating the Relationship between Initial Settings for Pair-Wise Wiki Surveys and Respondent Engagement using a Randomized Experiment. Presentation given at the 73<sup>rd</sup> annual conference of the American Association of Public Opinion Research, Denver, CO.
- Buskirk, T.D. and Dutwin, D. (2016) Matchmaker, Data Scientist or Both? Using Unsupervised Learning Methods for Matching Nonprobability Samples to Probability Samples. Paper presented at the 2016 Joint Statistical Meetings, Chicago, IL.
- Dutwin, D. and Buskirk, T.D. (2016) Apples to Oranges or Gala vs. Golden Delicious? Comparing Data Quality of Nonprobability Internet Samples to Low Response Rate Probability Samples. Presented at the 71<sup>st</sup> Annual conference of the American Association of Public Opinion Research.
- Buskirk, T.D. and Dutwin, D. (2016) Telephone Sample Surveys: Dearly Beloved or Nearly Departed? Trends in Errors from Dual Frame and Cell Phone RDD Surveys in the Age of Declining Response Rates. Paper presented at the 71<sup>st</sup> Annual conference of the American Association of Public Opinion Research, Austin, TX.
- Buskirk, T.D. and Dutwin, D. (2015) Probability Samples—Meet Your Match! Comparing Methods for Sample Matching. Paper presented at the 40<sup>th</sup> Annual Conference of the Midwest Association of Public Opinion Research, Chicago, IL.
- Buskirk, T.D. and Dutwin, D. (2015) Probability Samples – Meet Your Match! A Comparison of Two Distance Measures for Linking Non-probability and Probability Based Samples. Paper Presented at the 2015 International Total Survey Error Conference, Baltimore, MD.
- Buskirk, T.D. and Kolenikov, S. (2015). A Forest Full of Respondents: Comparing Logistic Regression and Random Forest Models for Response Propensity Weighting Adjustments. Paper Presented at the 2015 International Total Survey Error Conference, Baltimore, MD.
- Dutwin, D. and Buskirk, T.D. (2015) Selected or Self-Selected? Part 1: A Comparison of Methods for Reducing the Impact of Self-Selection Biases from Non-Probability Surveys. Paper presented at the American Association for Public Opinion Research annual meeting, Hollywood, FL, May 2015.
- Buskirk, T.D. and Dutwin, D. (2015) Selected or Self-Selected? Part 2: Exploring Non-Probability and Probability Samples from Response Propensities to Participant Profiles to Outcome Distributions. Paper presented at the American Association for Public Opinion Research annual meeting, Hollywood, FL, May 2015.
- Olson, K. and Buskirk, T.D. (2015) Can I Get Your Phone Number? Examining the Relationship Between Household, Geographic and Census-Related Variables and Phone Append Propensity for ABS Samples. Paper presented at the American Association for Public Opinion Research annual meeting, Hollywood, FL, May 2015.
- Buskirk, T.D. and Olson, K. (2015). "Got a Phone Number? Examining the Reliability and Accuracy of Phone Number Append Propensity Models for ABS Samples," Paper presented at the 2015 Joint Statistical Meetings, Seattle WA.
- Buskirk, T.D., Malarek, D. and Bareham, J. (2014). "From Flagging a Sample to Framing It: Exploring Vendor Data that can be appended to ABS samples." Presented at the 2014 Joint Statistical Meetings, Boston, MA.
- Buskirk, T.D., Bareham, J.S., Bordy, N. and Dalbey, D. (2014) "Exploring Demographic, Geospatial and Household Correlates of U.S. County-Level Household CPO Rates," Presented at the 2014 MAPOR Annual Conference, Chicago, IL.
- Buskirk, T.D., West, B. T. and Burks, A-T (2013) "Respondents: Who Art Thou? Comparing Internal, Temporal, and External Validity of Survey Response Propensity Models Based

- on Random Forests and Logistic Regression Models,” Presented at the 2013 Joint Statistical Meetings of the American Statistical Association, Montreal, Canada.
- Buskirk, T.D., Burks, A-T., West, B. (2013) “Growing Survey Response Rates on Trees: Evaluation of Response Propensity Models Based on Logistic Regression Models and Random Forests Using Block-Group Information Appended to an ABS Sampling Frame,” Paper presented at the 68<sup>th</sup> Annual AAPOR Conference, Boston, MA.
  - Burks, A-T., Walton, L., Buskirk, T.D. and Link, M.W. (2013) Cashing in on ABS GOLD? Exploring the Utility of ABS Frame Appended Auxiliary Data for Potential Nonresponse Bias Assessment and Adjustment,” Paper presented at the 68<sup>th</sup> Annual AAPOR Conference, Boston, MA.
  - Buskirk, T.D. and Walton, L. (2013) “To Complete by Smartphone or by Tablet or by Computer or by Paper & Pencil – That is the Question: Exploring Factors Associated with Respondent Mode Choice for Multi-Mode Surveys,” Paper presented at the 68<sup>th</sup> Annual AAPOR Conference, Boston, MA.
  - Walton, L., Buskirk, T.D. and Wells, T. (2013) “Smarter Online Panels for Smartphone Users: Exploring Factors Associated with Mobile Panel Participation,” Paper presented at the 68<sup>th</sup> Annual AAPOR Conference, Boston, MA.
  - Buskirk, T. D., Burks, AT, West, BT (2013) “Can Survey Response Propensities Grow on Trees? Comparing the Validity of Random Forests and Logistic Regression Models Using Population Variables Appended to an ABS Sampling Frame,” Poster presented at the 2013 Conference on Statistical Practice, New Orleans.
  - Buskirk, T.D. and Andrus, C. (2012) “How Often Do You Use Angry Birds? You Know, that App with the Upset Looking Bird on It? An Experiment Exploring How Survey Respondents Recognize Smartphone Apps,” Paper presented at the Midwest Association of Public Opinion Research Conference, Chicago, IL.
  - Buskirk, T.D. and Burks, AT (2012) “Exploring Response Propensity Models Based On Random Forests Using Ancillary Data Appended to an ABS Sampling Frame,” Paper presented at the 2012 Midwest Association of Public Opinion Research Conference, Chicago, IL.
  - Buskirk, T. D. and Best, J. (2012) “Venn Diagrams, Probability 101, and Sampling Weights Computed from Dual-Frame Telephone RDD Designs,” Presented at the Joint Statistical Meetings, San Diego, CA.
  - Buskirk, T. D. and Andrus, C. (2012) “How Often Do You Use the App with a Bird on It? Exploring Differences in Survey Completion Times, Primacy Effects and App Icon Recognition between Smartphone and Computer Survey Modes,” RC 33 Eighth International Conference on Research Methodology, Sydney, AUS.
  - Link, M.W., Buskirk, T.D. and Lai, J. (2012) “User Engagement with Mobile Data Collection Apps: A New Set of Concerns,” presented at the Audience Measurement 7.0 Conference of the Advertising Research Foundation, New York, NY.
  - Buskirk, T. D. and Andrus, C. (2012) “Online Surveys Aren't Just for Computers Anymore! Exploring Potential Mode Effects between Smartphone vs. Computer-Based Online Surveys,” Paper presented at the 67<sup>th</sup> Annual American Association of Public Opinion Research Conference, Orlando, FL.
  - Buskirk, T. D. (2011) “Estimating Design Effects for Means, Proportions and Totals Using SAS Proc Surveymeans,” MWSUG, 2011, Kansas City, KS.
  - Buskirk, T.D. (2011) “Are Your Surveys As Smart As Your Smartphone?” Annual Research Meeting, Academy Health, Seattle, WA.
  - Buskirk, T.D., Gaynor, M., Andrus, C. and Gorrell, C. (2011) “An App a Day Could Keep The Doctor Away: Comparing Mode Effects for a iPhone Survey related to Health App Use.” American Association of Public Opinion Research, Phoenix, AZ.
  - Gaynor, M. and Buskirk, T.D., Gorell, C. and Andrus, C. (2011) “An App a Day Could Keep the Doctor Away: Measuring Trends in Availability and Use of Health Related Smart Phone Applications,” American Medical Informatics Association, Washington, D.C.
  - Buskirk, T.D. (May 2010) “A Comparison of Non-recruited, non-responding and responding 18-24 year old web-based panel members’ exposure to and uses of new and emerging smokeless tobacco products,” AAPOR, Chicago.

- Buskirk, T.D., Rao, K, Kiminska, O. (May, 2008) "My Cell Phone's Ringing, "Caller Unknown," Now What? Usage Behavior Patterns Among Recent Landline Cord Cutters Who Have Become Cell Phone Only Users," AAPOR, New Orleans.
- Buskirk, T.D., Rao, K., Callegaro, M. et al. (May 2008) "Using Text Messaging Interfaces as Screeners for Working Cell Phone Status," AAPOR, New Orleans.
- Racette, S., Deusinger, S., Inman, C., Burlis, T., Highstein, G., White, N. and Buskirk, T. (October, 2007) "Worksite Opportunities for Wellness (WOW): Effects on Cardiovascular Disease Risk Factors During a 2-Year Period," NAASO, The Obesity Society's Annual Meeting.
- Buskirk, T.D. and Callegaro, M. (May, 2004) "Do Not Call: Alternate strategies for contacting cellular phone subscribers for Sample Surveys," presented at AAPOR, Phoenix, AZ (invited).
- Buskirk, T.D. and Steeh, C.G. (presenter) (March 2004) "Efficacy of Text Messaging as a method of contact/pre-contact in Cell Phone Surveys," Presented at the 2004 German Online Research Conference, University of Duisburg-Essen (Germany) (Invited talk).
- Callegaro, M., Buskirk, T. D., Piekarski, L., Vehovar, V., Kuusela, V., & Steeh, C. (2004, 16-20 August). *Calculating response rates for mobile phone surveys. A proposal of a modified AAPOR standard and its application to three case studies.* Paper presented at the RC 33 Sixth International Conference on Social Science Methodology. Recent Developments and Applications in Social Research Methodology, Amsterdam.
- Buskirk, T.D. (May, 2003) Cellphones and Telephone Surveys Roundtable Speaker, AAPOR, Nashville.
- Buskirk, T.D. and Callegaro, M. (May, 2003) "Developing a Strategy for Sampling U.S. Mobile Phone Subscribers based on European Models," Interactive Poster Session, AAPOR Annual Meeting, Nashville.
- Buskirk, T.D. (February, 2003) "Sampling U.S. Mobile Phone Numbers," First National Cell Phone Summit (Sponsored by Nielsen Media Research), New York (Invited Talk).
- Stein, K.D., Buskirk, T. [PRESENTER], Denniston, M., Dent, M., Thompson, J., & Baker, F. (2002). "Effects of mail versus Telephone Administration of the Medical Outcome Survey-Short Form-36 (MOS-SF-36) in sample of cancer survivors." Poster to be presented at the 24th Annual Meeting of the Society for Behavioral Medicine, Salt Lake City, UT. [Citation Award]
- Buskirk, T. and Callegaro, M. (December, 2002) "Surveying U.S. mobile phone subscribers: When, Where or If Ever?," Pacific Chapter of AAPOR's Annual Conference, Pacific Grove, CA (invited)
- Nylund, K, Joseph, J and Buskirk, T. (May, 2002) "Surveying Teens: Issues related to data collection in substance abuse surveys," AAPOR conference, St. Petersburg, FL (Contributed poster session).
- Buskirk, T.D. (October, 2000) "Survivor Analysis: An Introduction to T.V. Ratings and Random Sampling" Invited Plenary Talk, Third Annual Regional Workshop in the Mathematical Sciences, UNL, Lincoln, NE (invited).
- Buskirk, T.D. (August, 1998) "Nonparametric Density Estimation Using Complex Survey Data," Joint Statistical Meetings, Dallas, TX (Contributed Poster Session).

## Invited Talks

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- Buskirk, T.D. (2015) "Mobile Survey Design: Emerging Best Practices," Presented by Invitation at the NYAAPOR Meet the Masters Event, New York, NY.
- Buskirk, T. D. (2012) "Introduction to R and R-commander: A Bridge for SPSS Users Who Want to Use R," Workshop given as part of the Nielsen Intro to R Series, Oldsmar, FL.
- Buskirk, T.D. (July, 2008) "Evaluating Program Effectiveness," Making An Impact: Evidence-Based Community Health Conference, St. Louis, MO [INVITED].
- Buskirk, T.D. (May, 2008) "Cell Phone Task Report Discussion," Invited Discussant for Cell Phone Task Force Report presented at American Association of Public Opinion Research National Conference, New Orleans.

- Buskirk, T.D. (May, 2005) "More Than Words Can Say: Expressing your Medical Research with Statistical Snapshots," Eastern Virginia Medical School Publication Series.
- Buskirk, T.D. (February, 2005) "Blocks are Not Just For Tots: Quasiexperimental Designs for Clinical Research," Eastern Virginia Medical School Residency Didactic.
- Buskirk, T.D. (February, 2003) "Sampling U.S. Mobile Phone Subscribers," Nielsen Media Research's Summit on Cell Phone Sampling, New York City. (Invited Participant).
- Buskirk, T.D. (September, 2002) "The Second and Third Dimensions of Drug Abuse," Invited Speaker for the Biostatistics Seminar, Dept. Of Biostatistics, Rollins School of Public Health, Emory University, Atlanta, GA.
- Buskirk, T.D. (February, 2002) "Estimating Lifetime Drug Use Rates Using State Survey Data," Statistics Seminar, University of Nebraska-Lincoln.
- Buskirk, T.D. (January, 2002) "The Second and Third Dimensions of Drug Abuse," Duke University, Raleigh-Durham, N.C. [invited]
- Buskirk, T.D. (January, 2002) "Viewing 'Survivor': An introduction to random sampling techniques and T.V. ratings," Duke University, Raleigh-Durham, N.C. [invited]
- Buskirk, T.D. (January, 2002) "The Second and Third Dimensions of Drug Abuse," Bureau of Labor Statistics, Washington, D.C. [invited]
- Buskirk, T.D. (October, 2001) "The Second and Third Dimensions of Drug Abuse," Statistics Colloquium, University of Nebraska-Lincoln.
- Buskirk, T.D. (March, 2001) "Survivor Analysis: Intro to T.V. ratings," Cal Poly, San Luis Obispo, CA (invited)
- Buskirk, T.D. (December, 2000) "Employment 201: What To Do With the Third Degree," Preparing Future Mathematics Faculty Seminar, Arizona State University, Tempe, AZ (invited)
- Buskirk, T.D. (April, 2000) "Let the Data Do Some Teaching," University of Nebraska, Lincoln, Departmental Statistics Seminar.
- Buskirk, T.D. (March, 2000) "So You're Thinking About Statistics?," University Of Nebraska Lincoln, Graduate Recruitment Weekend.
- Buskirk, T.D. (November, 1999) "Using Nonparametric Methods for Density Estimation with Complex Survey Data," University Of Nebraska, Lincoln, Departmental Statistics Seminar.
- Lohr, S. (Presenter), Buskirk, T.D. (June, 1999) "Density Estimation from Survey Data," Statistical Society of Canada Annual Meeting, Regina, SK. (Invited)
- Buskirk, T.D. (February, 1999) "Nonparametric Density Estimation Using Survey Data," Iowa State University, Ames, IA. (Invited)
- Carlson, M.P. (Presenter), Buskirk, T.D. (October, 1997) "Views About Mathematics Survey: Design and Results," Nineteenth Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Normal, IL (Refereed Session)

## Academic Courses Taught

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- Introduction to Sample Survey Design and Analysis (BGSU)
- Communications for Data Science (BGSU)
- Advanced Data Mining: Interpretable Machine Learning (BGSU)
- Introduction to Statistical Sampling (UNL)
- Introduction to Sample Surveys (UNL)
- Introduction to Statistics for Engineers (with Calculus) (UNL)
- Introduction to Statistics (UNL)
- Introduction to Biostatistics (SLU)
- General Linear Modeling (SLU)
- Biostatistics Theory (SLU)
- Introduction to Surveys and Sampling in Public Health (SLU)

- Statistical Computing and Programming in SAS (SLU)
- Advanced Research Methods: Design and Analysis for Public Health Research (SLU)
- A Syntax Free Introduction to R (Analysis Factor – Online)
- An Introduction to the Analysis of Complex Samples using SPSS (Analysis Factor – Online)

## Student Mentoring

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- S. Vijaykumar, Ph.D. Public Health Studies, Saint Louis University (2010) – Committee Member. Dissertation: **Influence of Contextual Factors on Participation in an Online Health Social Movement**
- Youzhi Yu, Ph.D. Student in Data Science, Bowling Green State University (2020-2023).

### Past Research Assistants:

- John Jardine, MSAS, Bowling Green State University
- Parker Kemp, MSAS, Bowling Green State University
- Tracey Reed, Ph.D. Student, Sociology University of Massachusetts Boston (2017-2018) Project: Building the Beacon Probability Panel of Boston Residents.
- Emmanuel Saake, Ph.D. Student, Computer Science, UMass Boston (2017-2018). Project: SurveyFy – Building Survey Questionnaire Recommendation Systems
- Charles Andrus, Saint Louis University
- Younathan Abdia, Saint Louis University
- Jake Henrichs, Saint Louis University
- Victoria Kortland, Saint Louis University
- Xuemei Si, Saint Louis University

## Professional Memberships

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- Member of the American Statistical Association (including the Survey Research Methods, Statistics in Epidemiology and Statistics in Education and Statistics in Marketing Sections)
- American Association of Public Opinion Research
- Advertising Research Foundation

## Professional Service, Activities and Committees

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- **Associate Editor**, Methods (1/2020 – Present) Journal of Survey Statistics and Methodology
- **Conference Chair** (6/2017 – 5/2018), American Association of Public Opinion Research (AAPOR)
- **Past President**, Midwest Association of Public Opinion Research (MAPOR), November 2016 – November 2017.
- **Editorial Board Member** of the BIGSURV18 International Conference on Big Data, Data and Survey Science (April, 2017 – January, 2019).
- **Associate Conference Chair** (5/2016 – 5/2017), American Association of Public Opinion Research (AAPOR), May, 2016 – May, 2017.
- **President**, Midwest Association of Public Opinion Research (MAPOR), November 2015 – November 2016.
- **Vice President/President Elect**, Midwest Association of Public Opinion Research (MAPOR) Term: November 2014 – November 2015.

- **Publications Officer**, Survey Research Methods Section, American Statistical Association, January, 2015 – January, 2017.
- Member of AAPOR Standards Committee (2014-2016).
- AAPOR ABS and Future of Telephone Surveys Task Forces Member (2014-2015).
- **Editorial Board Member** – AIMS Public Health (2013 – present).
- **AAPOR Chapter Lead for the New and Emerging Technologies in Survey Research Task Force** – by invitation (2014-2015).
- **AAPOR Ad-Hoc Committee on Bayesian Credible Intervals** – by invitation of the AAPOR Standards Committee. Appointment Term: August-October 2012.
- **Survey Review Committee Chair** – American Statistical Association (National) – by invitation of the President Elect. Appointment Term: 4/11 – 12/14.
- Faculty Assembly President, Saint Louis University, School of Public Health (2009-2010 and 2010-2011).
- **American Association of Public Opinion Research National Cell Phone Task Force Member (2009-2010)**
- Undergraduate Curriculum Task Force – Department of Community Health, SLU-SPH Fall, 2008
- **Survey Review Committee (Vice-Chair)** – American Statistical Association (National) – by invitation of the President Elect. Appointment Term: 1/09 – 3/11.
- Research Peer Review Committee Member – including reviews for the Beaumont Faculty Development Fund and Summer Research Awards; Saint Louis University, 10/2007-10/2010.
- Board of Graduate Studies member, Saint Louis University 10/2007-10/2009.
- Editorial Board Member for *Survey Practice*, an official online journal of the American Association of Public Opinion Research (<http://surveypractice.org/>) 08/2008 – 08/2010.
- **Associate Editor, Advisory Board Member for Encyclopedia of Survey Research Methods to be published by Sage Publications, 2008.**
- **Discussant for the AAPOR Task Force on Cell Phone Use in Survey Research, 63<sup>rd</sup> Annual AAPOR National Conference, New Orleans (05/2008).**
- **Reorganizing Student Admissions Committee, SLU School of Public Health (01/2007-09/2007).**
- **R36 – CDC Grants for Public Health Research Dissertation Review Panel Member (11/ 2007 and 07/2008).**
- **Discussant for Survey Sampling Session at AAPOR, Miami Beach. (05/2005)**
- Treasurer for the Arizona State Chapter of the American Statistical Association, 1997-1999

**Professional Reviewer:** Social Science Computer Review, Social Science Research, Survey Research Methods, Social Science Research, Metrika, Public Opinion Quarterly, the Journal of the American Association of Public Opinion Research, Prentice Hall Publishing Company *Communications in Statistics, Theory and Methods*, Journal and Addison Wesley Publishing Company and Sage Publications Incorporated and American Journal of Public Health.

## Awards and Honors

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- **Fellow of the American Statistical Association, 2017** with citation: “For contributions to survey statistics and methodology, including methods for analysis of nonprobability samples, nonresponse weighting adjustments, mobile data collection, and applications of data science to survey methodology; for enthusiastic contributions to continuing education forums; and for dedicated service to the profession.”
- Named One of the “20 Researchers You Need to Know in 2013” by Survey Magazine; <http://survey magazine.org/survey-magazine/survey-july-2013/trent-buskirk-20-researchers-need-know-2013/>.
- PLATINUM Simply Excellent Award for Data Mining Leadership, The Nielsen Company, 2013.
- BRONZE Simply Excellent Award for Technical Reporting, The Nielsen Company, 2013.

- Outstanding Research in Other Category for Assistant Professors, 2007, Saint Louis University, School of Public Health.
- Citation Award for Outstanding Poster Submission, Society of Behavioral Medicine, 2003
- Gallup Professorship, Gallup Research Center, Lincoln, NE, 2000-2001
- Black Masque Chapter of Mortar Board, UNL, Professor of the Month, February, 2000
- Graduate College Fellow, *Preparing Future Faculty Program*, Arizona State University (1996/97 – 1997/98). Preparing Future Faculty is a national program designed to enhance the preparedness of doctoral students to better meet the challenges of a career combining teaching, research and service.
- Graduate Academic Scholarship, Arizona State University (1995/96 & 1997/98).
- Jean Kirkley Award (Outstanding Senior in Mathematics), Presbyterian College (1992).

## Technical Skills

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General Statistics knowledge including specific research interests in:

- Big Data Analysis and Synthesis
- Data Mining
- Machine Learning Methods
- Smartphone survey analytics
- Smartphone survey design and development
- Survey sampling methodology with applications in crime, epidemiology and health. Nonparametric statistical methodology implemented in a survey sampling context.
- Computing Platforms: Unix, Linux, Windows
- Programming Languages: R, Fortran, Pascal, S.
- Statistical Computing: Extensive experience in SAS, Splus (programming and application), R, SPSS, Sudaan and WestVar PC and N-query-and G\*Power power calculation software
- Text formatting in LaTeX, Microsoft Office Suite and Photoshop Editor. Also familiar with web-page design using Netscape Composer.
- SNAP Survey Design Software
- Exposure to JQuery Mobile, Sencha Touch and other Mobile Frameworks