

CURRICULUM VITAE

Bonnie E. Shook-Sa

Collaborative Studies Coordinating Center
Department of Biostatistics
University of North Carolina at Chapel Hill
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Education

2016-2020	DrPH, Biostatistics University of North Carolina, Chapel Hill, NC
2006-2008	MAS, Applied Statistics Graduate Interdisciplinary Specialization in Survey Research Ohio State University, Columbus, OH (GPA: 3.96)
2002-2006	BS, Mathematics and BA, Political Science Marshall University, Huntington, WV (GPA: 4.0)



Professional Experience

2021 to date	Research Assistant Professor, UNC Department of Biostatistics, Chapel Hill, NC.
2020 to 2021	Clinical Assistant Professor, UNC Department of Biostatistics, Chapel Hill, NC.
May-July 2020	Postdoctoral Research Associate, UNC Department of Biostatistics, Chapel Hill, NC.
2018 to 2020	Instructor, Sample Survey Methodology, UNC Department of Biostatistics, Chapel Hill, NC.
2018 to 2020	Graduate Research Assistant, UNC Center for AIDS Research, Chapel Hill, NC.
2016 to 2018	Graduate Research Assistant, UNC Center for Regulatory Research on Tobacco Communication, Chapel Hill, NC.
Spring 2017	Bioanalytics Instructor, Clinical Research Program, UNCW College of Health and Human Services, Wilmington, NC.
2008 to 2016	Senior Research Statistician (2016), Research Statistician (2010-2016), Statistician (2008-2010), RTI International, Research Triangle Park, NC.
2007 to 2008	Graduate Teaching Assistant, Ohio State University, Columbus, OH.

Honors

Barry H. Margolin Award for Excellence in Doctoral Research in Biostatistics, 2021
Delta Omega, Public Health Honorary Society, 2020
Special Commendation, Doctoral Applications Exam, UNC Department of Biostatistics, 2018
RTI President's Award, 2014
RTI Professional Development Award, 2011
OSU University Fellowship, 2006
OSU Department of Statistics Wyeth-Ayerst Fellowship, 2006
Marshall University Outstanding Math Student Award, 2006
Marshall University Mathematics Outstanding First Year Student, 2003
Marshall University John Marshall Scholarship, 2002
Gallup Scholarship Award, 2002

Bibliography

Peer-Reviewed Publications

1. Knittel AK, Rudolph JE, **Shook-Sa BE**, Edmonds A, Cohen M, Taylor T, Adedimeji A, Michel K, Milam J, Cohen J, Donohue J, Foster A, Fischl M, Long D, Adimora AA. “The effects of incarceration on self-reported sexually transmitted infections in women with or at risk for HIV in the United States.” *Journal of Women’s Health*, Accepted.
 2. Cote CM, Goel V, Muhindo R, Baguma E, Ntaro M, **Shook-Sa BE**, Reyes R, Staedke SG, Mulogo EM, Boyce RM. “Malaria prevalence and long-lasting insecticidal net use in rural western Uganda: results of a cross-sectional survey conducted in an area of highly variable malaria transmission intensity.” *Malaria Journal*. Accepted.
 3. Lancaster KE, Mollan KR, Hanscom BS, **Shook-Sa BE**, Ha TV, Dumchev K, Djoerban Z, Rose SM, Latkin CA, Metzger DS, Go VF, Dvoriak S, Reifeis SA, Piwowar-Manning EM, Richardson P, Hudgens MG, Hamilton EL, Eshleman SH, Susami H, Chu VA, Djauzi S, Kiriazova T, Nhan DT, Burns DN, Miller WC, Hoffman IF, “Engaging People who Inject Drugs Living with HIV in Antiretroviral Treatment and Medication for Opioid Use Disorders: Extended Follow-up of HPTN 074.” *Open Forum Infectious Diseases*. Accepted.
 4. Ceriani C, Streeter GS, Lemu KJ, James KS, Ghofrani S, Allard B, **Shook-Sa BE**, Margolis DM, Archin NM. “Defining stable reference genes in latency reversing experiments.” *Journal of Virology*. Accepted.
 5. Agans RP, Zeng D, **Shook-Sa BE**, Boynton MH, Brewer NT, Sutfine EL, Goldstein A, Noar SM, Vallejos Q, Kim K, Queen T, Bowling JM, Ribisl KM. “Using Social Networks to Supplement RDD Telephone Surveys to Oversample Hard-to-Reach Populations: A New RDD+RDS Approach.” *Sociological Methodology*. Accepted.
 6. Krebs C, Lindquist C, Langton L, Berzofsky M, Planty M, Asefnia N, **Shook-Sa BE**, Peterson K, Stroop J. “The Value and Validity of Self-Reported Survey Data on the Rape Experiences of College Students.” *Violence Against Women*. Accepted.
 7. Knittel AK, **Shook-Sa BE**, Rudolph JE, Edmonds A, Ramirez C, Cohen M, Adedimeji A, Taylor T, Michel KG, Milam J, Cohen J, Donohue JD, Foster A, Fischl MA, Konkle-Parker D, Adimora AA. (2021) “Incidence and Prevalence of Incarceration in a Longitudinal Cohort of Women at Risk for HIV in the United States, 2007-2017.” *Journal of Women’s Health*. 30(5): 694–704.
 8. Griggs AK, Smith AC, Berzofsky ME, Lindquist CH, Krebs CP, **Shook-Sa BE**. (2021) “Examining the impact of a survey’s email timing on response latency, mobile response rates, and breakoff rates.” *Field Methods*. Ahead of print
<https://doi.org/10.1177/1525822X21999160>.
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9. Goldstein AO, Jarman KL, Kowitt SD, Queen TL, Kim KS, **Shook-Sa BE**, Sheeran P, Noar SM, Ranney LM. (2021) “Effect of Cigarette Constituent Messages with Engagement Text on Intention to Quit Smoking Among Adults Who Smoke Cigarettes: A Randomized Clinical Trial.” *JAMA Network Open*. 4(2): 1-14.
 10. Zeziulin O, Mollan KR, **Shook-Sa BE**, Hanscom B, Lancaster KE, Dumchev K, Go VF, Chu VA, Kiriazova T, Syarif Z, Dvoryak S, Reifeis SA, Hamilton E, Sarasvita R, Rose S, Richardson P, Clarke W, Latkin CA, Metzger DS, Hoffman IF, Miller WC. (2020) “Depressive symptoms and use of HIV care and medication-assisted treatment among people living with HIV who inject drugs.” *AIDS*. 35(3): 495-501.
 11. **Shook-Sa BE** and Hudgens MG. (2020) “Power and Sample Size for Observational Studies of Point Exposure Effects.” *Biometrics*. 1-11. <https://doi.org/10.1111/biom.13405>
 12. Boyce RM, **Shook-Sa BE**, Aiello AE. (2020) “A tale of two studies: Study design and our understanding of SARS-CoV-2 seroprevalence.” *Clinical Infectious Diseases*. <https://doi.org/10.1093/cid/ciaa1868>
 13. **Shook-Sa BE**, Boyce RM, Aiello AE. (2020) “Estimation without Representation: Early SARS-CoV-2 Seroprevalence Studies and the Path Forward.” *The Journal of Infectious Diseases*, 222(7): 1086-1089.
 14. Lee JG, Boynton MH, **Shook-Sa BE**, Wimark T. (2020) “Is Where Same-Sex Couples Live a Valid Measure for Where Single Lesbian, Gay, and Bisexual People Live in Population Health Research? Results from a National Probability Phone Survey, 2017, United States.” *Annals of LGBTQ Public and Population Health*, 1(2): 96-114.
 15. Falcinelli SD, **Shook-Sa BE**, Dewey MG, Sridhar S, Kirchherr J, James KS, Allard B, Ghofrani S, Stuelke E, Baker C, Roan NR, Eron JJ, Kuruc JD, Ramirez C, Gay C, Mollan KR, Margolis DM, Adimora AA, Archin NM. (2020) “Impact of Biological Sex on Immune Activation and Frequency of the Latent HIV Reservoir During Suppressive Antiretroviral Therapy.” *The Journal of Infectious Diseases*, 222(11): 1843–1852.
 16. Knittel AK, **Shook-Sa BE**, Rudolph JE, Edmonds A, Ramirez C, Cohen M, Adedimeji A, Taylor T, Michel KG, Milam J, Cohen J, Donohue J, Foster A, Fischl M, Konkle-Parker D, Adimora AA. (2020) “Incarceration and Number of Sexual Partners after Incarceration among Vulnerable US Women, 2007-2017.” *American Journal of Public Health*, 110, S100-S108.
 17. Lee JG, **Shook-Sa BE**, Gilbert J, Ranney LM, Goldstein AO, Boynton MH. (2020) “Risk, Resilience, and Smoking in a National, Probability Sample of Sexual and Gender Minority Adults, 2017, USA.” *Health Education & Behavior*, 47(2): 272-283.
 18. Boynton MH, Gilbert J, **Shook-Sa BE**, Lee JG. (2020) “Perceived Importance of Health Concerns among a Nationally Representative Sample of Lesbian, Gay, Bisexual, and Transgender Adults, 2017.” *Health Promotion Practice*, 21(5):764-768.
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19. Griggs AK, Berzofsky ME, **Shook-Sa BE**, Lindquist CH, Enders KP, Krebs CP, Planty M, Langton L. (2018) “The Impact of Greeting Personalization on Prevalence Estimates in a Survey of Sexual Assault Victimization.” *Public Opinion Quarterly*, 82(2), 366-378.
 20. **Shook-Sa BE**, Kott P, Berzofsky M, Couzens L, Moore A, Lee P, Langton L, Planty M. (2017) “Maintaining Precision in Survey Estimates while Adjusting for Conditional Bias at the Subnational Level through Calibration Weighting.” *Survey Research Methods*, 11(4), 405-414.
 21. **Shook-Sa BE**, Chen D, Zhou H. (2017) “Using Structural Equation Modeling to Assess the Links between Tobacco Smoke Exposure, Volatile Organic Compounds, and Respiratory Function for Adolescents Aged 6 to 18 in the United States.” *International Journal of Environmental Research and Public Health*, 14(10), 1112.
 22. Krebs C, Lindquist C, Planty M, Langton L, Berzofsky M, Asefnia N, Griggs A, **Shook-Sa BE**, Enders K. (2017) “Sensitivity of Sexual Victimization Estimates to Definitional and Measurement Decisions.” *Journal of Interpersonal Violence*.
<https://doi.org/10.1177/0886260517744190>
 23. Lee JGL, **Shook-Sa BE**, Bowling JM, Ribisl KM. (2017) “Comparison of Sampling Strategies for Tobacco Retailer Inspections to Maximize Coverage in Vulnerable Areas and Minimize Cost.” *Nicotine & Tobacco Research*, 20(11), 1353-1358.
 24. **Shook-Sa BE**, Warren LK, Roe D, Currivan D. (2016) “Random Digit Dialing Versus Address-Based Sampling using Telephone Data Collection.” *Survey Practice*, 9(3), 0015.
 25. **Shook-Sa BE**, Harter R, McMichael J, Ridenhour J, Dever J. (2016) “The CHUM: A Frame Supplementation Procedure for Address-Based Sampling.” *RTI Press*, MR-0034-1602.
 26. **Shook-Sa BE**. (2014) “Improving the Efficiency of Address-Based Sampling Frames with the USPS No-Stat File.” *Survey Practice*, 7(4), 1–10.
 27. **Shook-Sa BE**, Currivan DB, McMichael JP, Iannacchione VG. (2013) “Extending the Coverage of Address-Based Sampling Frames: Beyond the USPS Computerized Delivery Sequence File.” *Public Opinion Quarterly*, 77(4), 994–1005.
 28. Iannacchione VG and **Shook-Sa BE**. (2013) “Evaluating the Effect of Within-Household Subsampling on the Precision of Crime Victimization Rates.” *RTI Press*, MR-0025-1307.
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Select Presentations

1. “Causal Methods for the Design and Analysis of Observational Studies for Point Exposure Effects.” Presented at the UNC Causal Inference Research Group Seminar Series. Webinar. October, 2020.
 2. “Statistical Considerations in the Design and Analysis of SARS-CoV-2 Prevalence Studies.” Presented at the UNC Gillings School of Global Public Health, Building COVID-19 Research Collaborations. Webinar. July, 2020.
 3. “Developing the Optimal Sample Design at the Agency and Officer Levels for the Survey of Law Enforcement Personnel in Schools.” Presented at the Fifth International Conference on Establishment Surveys (ICES-V). Geneva, Switzerland. June, 2016.
 4. “Methods for reducing TSE in subnational estimates: An assessment of coverage error through the comparison of nationally calibrated weights to subnational area-specific calibrated weights.” Presented at International Total Survey Error Conference, Baltimore, MD. September, 2015.
 5. “Transitioning to a random digit dialing health survey to address-based sampling.” Presented at Joint Statistical Meetings. Boston, MA. August, 2014.
 6. “Comparing Generalized Variance Functions to Direct Variance Estimation for the National Crime Victimization Survey.” Presented at the Federal Committee on Statistical Methodology Conference. Washington, DC. November, 2013.
 7. “Improving the Efficiency of Address-Based Frames with the USPS No-Stat File.” Presented at the American Association for Public Opinion Research Annual Conference. Boston, MA. May, 2013.
 8. “Beyond the USPS CDS file: Extending the coverage of ABS frames.” Invited Speaker at the Joint Statistical Meetings. San Diego, CA. August, 2012.
 9. “Evaluating a sample frame of private security firms.” Presented at the Fourth International Conference on Establishment Surveys. Montreal, Canada. June, 2012.
 10. “Supplementing address-based sampling frames with physical addresses of housing units with unlocatable mailing addresses.” Presented at the American Association for Public Opinion Research Annual Conference. Phoenix, AZ. May, 2011.
 11. “The implications of geocoding error on address-based sampling.” Presented at the Joint Statistical Meetings. Vancouver, BC. August, 2010.
 12. “Blue and red neighborhoods in the 2008 election: An analysis of intra-cluster correlation in the American National Election Survey.” Presented at the American Association for Public Opinion Research Annual Conference. Hollywood, FL. May, 2009.
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Select Technical Reports

1. **Shook-Sa BE**, Couzens GL, Berzofsky M. (2016) “National Crime Victimization Survey (NCVS) Direct Variance User’s Guide.” Prepared for the Bureau of Justice Statistics.
2. Krebs K, Lindquist L, Berzofsky M, **Shook-Sa BE**, Peterson K. (2016) “The Campus Climate Survey Validation Study (CCSVS) Final Technical Report.” Prepared for the Bureau of Justice Statistics.
3. **Shook-Sa BE**, Lee P, Berzofsky M. (2015) “Assessing the Coverage and Reliability of Subnational Geographic Identifiers in the NCVS Public-Use File.” Prepared for the Bureau of Justice Statistics.
4. Kinsey SH, Iannacchione VG, **Shook-Sa BE**, Peytcheva EA, Triplett SM. (2013) “Examination of data collection methods for the National Crime Victimization Study: Final report.” Prepared for the Bureau of Justice Statistics.
5. Iannacchione VG, McMichael JP, **Shook-Sa BE**, Morton KB. (2012) “A proposed hybrid sampling frame for the National Survey on Drug Use and Health.” Prepared for the Substance Abuse and Mental Health Services Administration.
6. Strom K, Berzofsky M, **Shook-Sa B**, Barrick K, Daye C, Horstmann N, Kinsey S. (2010) “The Private Security Industry: A Review of the Definitions, Available Data Sources, and Paths Moving Forward.” Prepared for the Bureau of Justice Statistics.

Teaching Record

Courses Taught

BIOS 664, Sample Survey Methodology, UNC Chapel Hill, Spring 2018 – Spring 2021

CLR 440, Bioanalytics, UNC Wilmington College of Health and Human Services,
Clinical Research Program, Spring 2017

Guest Lectures

EPID 755, Infectious Disease Epidemiology, UNC Chapel Hill, Spring 2021, “Statistical Considerations in the Design and Analysis of SARS-CoV-2 Seroprevalence Studies”

Doctoral Research Committee Membership

Victor Ritter, PhD (2021), “Time-to-event methods for complex survey data with a focus on non- and semi-parametric inference for national health surveys”

Direction of Undergraduate Thesis in Biostatistics

Nishma Vias, BSPH (2021), “Adaptation of the Rao-Wu Rescaling Bootstrap for Seroprevalence Estimation in Complex Survey Studies”

Reader of Undergraduate Thesis in Biostatistics

Abby Masten (2021), “Comparing Self-Reported Mental Health Among Sexual Minorities and Gender Minorities”

Professional Service

Expert Consultant, American Association for Public Opinion Research Address-Based Sampling Task Force (2016).

Peer Reviewer, Annals of Internal Medicine

Peer Reviewer, American Journal of Epidemiology

Peer Reviewer, PLOS ONE

Peer Reviewer, Public Opinion Quarterly

Peer Reviewer, Journal of Official Statistics

Peer Reviewer, Field Methods

Department, School, and University Service

Committee Service

Masters Examinations: 2020-present

Last updated: September 27, 2021
