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| RESEARCH INTERESTS | Record Linkage, Multiple-Systems Estimation, Bayesian Statistics, Spatio-Temporal Statistics, Small Area Estimation, Human Rights, Child Mortality Estimation | |
| PROFESSIONAL POSITIONS | U.S. Census Bureau , Center for Statistical Research and Methodology 07/2023 - Present Research Mathematical Statistician | |
| | Duke University , Durham, NC Postdoctoral Associate Advisor: Rebecca C. Steorts, Ph.D. | 09/2022 - 06/2023 |
| EDUCATION | University of Washington , Seattle, WA Ph.D. in Biostatistics Dissertation Title: “Statistical Methods for Human Rights and Child Mortality Estimation” Committee: Mauricio Sadinle (co-chair), Jon Wakefield (co-chair), and Abel Rodriguez | 08/2022 |
| | Boston College , Chestnut Hill, MA B.S. in Mathematics, Departmental Honors B.A. in Computer Science, Departmental Honors <i>Summa Cum Laude</i> | 05/2017 |
| PUBLICATIONS | <ol style="list-style-type: none"> Aleshin-Guendel S and Steorts R. “Convergence Diagnostics for Entity Resolution.” To appear, <i>Annual Review of Statistics and Its Application</i>. Aleshin-Guendel S, Sadinle M, and Wakefield J. “The Central Role of the Identifying Assumption in Population Size Estimation.” To appear with discussion, <i>Biometrics</i>. <ul style="list-style-type: none"> Available on arXiv: arXiv preprint arXiv:2101.09304 The material presented in Appendix A previously appeared in the following preprint: Aleshin-Guendel S. “On the Identifiability of Latent Class Models for Multiple-Systems Estimation.” <i>arXiv preprint arXiv:2008.09865</i>. Aleshin-Guendel S and Sadinle M. “Multifile Partitioning for Record Linkage and Duplicate Detection.” In press, <i>Journal of the American Statistical Association</i>. <ul style="list-style-type: none"> 2020 ASA Social Statistics, Government Statistics, and Survey Research Methods Sections Student Paper Competition First Place Available on arXiv: arXiv preprint arXiv:2110.03839 Knutson V, Aleshin-Guendel S, Karlinsky A, Msemburi W, and Wakefield J. “Estimating Global and Country-Specific Excess Mortality During the COVID-19 Pandemic.” <i>Annals of Applied Statistics</i>. 2023; 17(2), 1353-1374. <ul style="list-style-type: none"> Available on arXiv: arXiv:2205.09081 Msemburi M, Karlinsky A, Knutson V, Aleshin-Guendel S, Chatterji S, and Wakefield J. “The WHO estimates of excess mortality associated with the COVID-19 pandemic.” <i>Nature</i>. 2023; 613 (7942), 130-137. Aleshin-Guendel S, Lange J, Goodman P, Weiss N, and Etzioni R. “A Latent Disease Model to Reduce Detection Bias in Cancer Risk Prediction Studies.” <i>Evaluation & the Health Professions</i>. 2021; 44 (1), 42-49. | |

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| | <p>7. Aleshin-Guendel S, Sadinle M, and Wakefield J. Discussion of “Multiple-systems analysis for the quantification of modern slavery: classical and Bayesian approaches” by Bernard Silverman. <i>Journal of the Royal Statistical Society: Series A (Statistics in Society)</i>. 2020; 183 (3), 724.</p> <p>8. Ivancic M, Megna B, Aleshin-Guendel S, Sverchkov Y, Craven M, Reichelderfer M, Pickhardt P, Sussman M, and Kennedy G. “Noninvasive detection of colorectal carcinomas using serum protein biomarkers.” <i>Journal of Surgical Research</i>. 2020; 246, 160–169.</p> <p>9. Lim D, Gulati R, Aleshin-Guendel S, Gawne A, Wingate J, Cheng H, Etzioni R, Yu E. “Undetectable prostate-specific antigen after short- course androgen deprivation therapy for biochemically recurrent patients correlates with metastasis-free survival and prostate cancer-specific survival.” <i>The Prostate</i>. 2018; 78 (14), 1077–1083.</p> | |
| SUBMITTED/IN PREPARATION | <p>1. Aleshin-Guendel S and Wakefield J. “Adaptive Gaussian Markov Random Fields for Child Mortality Estimation.” Submitted.</p> <p>▷ Available on arXiv: arXiv:2309.00724</p> | |
| INVITED PRESENTATIONS | <p>1. “Multifile Record Linkage and Duplicate Detection Via a Structured Prior for Partitions” <i>SDSS</i>, Virtual 2020</p> <p>2. “Interval-Censored Survival Analysis to Reduce Detection Bias in a Study of Family History, Race, and Cancer Risk” <i>WNAR</i>, Portland, OR 2019</p> | |
| CONTRIBUTED PRESENTATIONS | <p>1. “Multifile Record Linkage and Duplicate Detection Via a Structured Prior for Partitions” <i>JSM</i>, Virtual 2020</p> <p>2. “Revisiting Log-Linear Models for Multiple-Systems Estimation” <i>WNAR</i>, Virtual 2020</p> <p>3. “Multifile Record Linkage and Duplicate Detection Via a Structured Prior for Partitions” <i>JSM</i>, Denver, CO 2019</p> | |
| HONORS AND AWARDS | <p>University of Washington</p> <p>School of Public Health Outstanding Biostatistics PhD Student Award 2022</p> <p>American Statistical Association (ASA)</p> <p>Social Statistics, Government Statistics, and Survey Research Methods Sections, Student Paper Competition First Place 2020</p> <p>Boston College</p> <p>Phi Beta Kappa Honor Society 2017</p> <p>Pi Mu Epsilon Mathematics Honor Society 2016</p> <p>McGillycuddy-Logue Travel Grant 2014</p> | |
| SERVICE | <p>Manuscript Reviewer</p> <p>Journal of the Royal Statistical Society: Series A (Statistics in Society) 2023</p> <p>Vaccine 2021</p> <p>Journal of Survey Statistics and Methodology 2021, 2022</p> <p>Annals of Applied Statistics 2019, 2020</p> <p>University of Washington</p> <p>Biostatistics Activities and Events Squad (BAES) Fall 2018 - Summer 2022</p> <p>Department of Biostatistics Admissions Committee Fall 2020 - Winter 2021</p> <p>Department of Biostatistics Student-Faculty Relations Committee Fall 2018 - Summer 2020</p> | |

SKILLS**Languages:** R, C++, Stan, Python, Java**Other:** L^AT_EX