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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	<p>U.S. Census Bureau, Center for Statistical Research and Methodology 07/2023 - Present Research Mathematical Statistician</p> <p>Duke University, Durham, NC 09/2022 - 06/2023 Postdoctoral Associate Advisor: Rebecca C. Steorts, Ph.D.</p>
EDUCATION	<p>University of Washington, Seattle, WA 08/2022 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</p> <p>Boston College, Chestnut Hill, MA 05/2017 B.S. in Mathematics, Departmental Honors B.A. in Computer Science, Departmental Honors <i>Summa Cum Laude</i></p>
PUBLICATIONS	<ol style="list-style-type: none"> Aleshin-Guendel S and Wakefield J. “Adaptive Gaussian Markov Random Fields for Child Mortality Estimation.” <i>Biostatistics</i>. 2024; kxae030. <ul style="list-style-type: none"> ▷ Available on arXiv: arXiv:2309.00724 Aleshin-Guendel S and Steorts R. “Convergence Diagnostics for Entity Resolution.” <i>Annual Review of Statistics and Its Application</i>. 2024; 11, 419-435. Aleshin-Guendel S, Sadinle M, and Wakefield J. “The Central Role of the Identifying Assumption in Population Size Estimation.” <i>Biometrics</i> (with discussion). 2024; 80(1), ujad028. <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>. Hood J, Aleshin-Guendel S, Poel A, Liu J, Collins H, Sadinle M, Avoundjian T, Sayre M, and Rea T. “Overdose and mortality risk following a non-fatal opioid overdose treated by Emergency Medical Services in King County, Washington.” <i>Drug and Alcohol Dependence</i>. 2023; 253, 111009. Aleshin-Guendel S and Sadinle M. “Multifile Partitioning for Record Linkage and Duplicate Detection.” <i>Journal of the American Statistical Association</i>. 2023; 118 (543), 1786-1795. <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.

▷ Available on arXiv: [arXiv:2205.09081](https://arxiv.org/abs/2205.09081)

7. 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.” *Nature*. 2023; 613 (7942), 130-137.
8. **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.” *Evaluation & the Health Professions*. 2021; 44 (1), 42-49.
9. **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. *Journal of the Royal Statistical Society: Series A (Statistics in Society)*. 2020; 183 (3), 724.
10. 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.” *Journal of Surgical Research*. 2020; 246, 160–169.
11. 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.” *The Prostate*. 2018; 78 (14), 1077–1083.

SUBMITTED/IN PREPARATION

1. Kunderinger B, **Aleshin-Guendel S**, and Steorts R. “Variational Beta Linkage.” Submitted.

INVITED PRESENTATIONS

1. “Multifile Record Linkage and Duplicate Detection Via a Structured Prior for Partitions”
SDSS, Virtual 2020
2. “Interval-Censored Survival Analysis to Reduce Detection Bias in a Study of Family History, Race, and Cancer Risk”
WNAR, Portland, OR 2019

CONTRIBUTED PRESENTATIONS

1. “The Central Role of the Identifying Assumption in Population Size Estimation”
JSM, Portland, OR 2024
2. “Multifile Record Linkage and Duplicate Detection Via a Structured Prior for Partitions”
JSM, Virtual 2020
3. “Revisiting Log-Linear Models for Multiple-Systems Estimation”
WNAR, Virtual 2020
4. “Multifile Record Linkage and Duplicate Detection Via a Structured Prior for Partitions”
JSM, Denver, CO 2019

HONORS AND AWARDS

University of Washington

School of Public Health Outstanding Biostatistics PhD Student Award 2022

American Statistical Association (ASA)

Social Statistics, Government Statistics, and Survey Research Methods Sections,
Student Paper Competition First Place 2020

Boston College

Phi Beta Kappa Honor Society 2017

Pi Mu Epsilon Mathematics Honor Society 2016

McGillycuddy-Logue Travel Grant 2014

SERVICE**Grant Reviewer**

National Science Foundation

2023**Manuscript Reviewer**

Journal of the Royal Statistical Society: Series A (Statistics in Society)

2023, 2024

Annals of Applied Statistics

2019, 2020, 2024

Statistical Methods & Applications

2024

Vaccine

2021

Journal of Survey Statistics and Methodology

2021, 2022**University of Washington**

Biostatistics Activities and Events Squad (BAES)

Fall 2018 - Summer 2022

Department of Biostatistics Admissions Committee

Fall 2020 - Winter 2021

Department of Biostatistics Student-Faculty Relations Committee

Fall 2018 - Summer 2020**SKILLS****Languages:** R, C++, Stan, Python, Java**Other:** L^AT_EX