CONTACT

Email: serge.aleshin.guendel@census.gov
Web: aleshing.github.io

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   **09/2022 - 06/2023**
Postdoctoral Associate
Advisor: Beka Steorts, Ph.D.

EDUCATION

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

Boston College, Chestnut Hill, MA   **05/2017**
B.S. in Mathematics, Departmental Honors
B.A. in Computer Science, Departmental Honors
Summa Cum Laude

PUBLICATIONS

1. Knutson V, **Aleshin-Guendel S**, Karlinsky A, Msemburi W, and Wakefield J. "Estimating Global and Country-Specific Excess Mortality During the COVID-19 Pandemic." To Appear, *Annals of Applied Statistics*.

   ▷ Available on arXiv: *arXiv:2205.09081*

2. **Aleshin-Guendel S**, Sadinle M, and Wakefield J. "The Central Role of the Identifying Assumption in Population Size Estimation." To appear with discussion, *Biometrics*.

   ▷ 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." *arXiv preprint arXiv:2008.09865*.

3. 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.

4. **Aleshin-Guendel S** and Sadinle M. "Multifile Partitioning for Record Linkage and Duplicate Detection." *Journal of the American Statistical Association*. 2022, 1–10.

   ▷ 2020 ASA Social Statistics, Government Statistics, and Survey Research Methods Sections Student Paper Competition First Place
   ▷ Available on arXiv: *arXiv preprint arXiv:2110.03839*

5. **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.

6. **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.

7. 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.

8. 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. **Aleshin-Guendel S** and Wakefield J. "Adaptive Gaussian Markov Random Fields for Child Mortality Estimation." In preparation.

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. "Multifile Record Linkage and Duplicate Detection Via a Structured Prior for Partitions"
JSM, Virtual **2020**

2. "Revisiting Log-Linear Models for Multiple-Systems Estimation"
WNAR, Virtual **2020**

3. "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

Manuscript Reviewer

Journal of the Royal Statjstical Society: Series A (Statistics in Society) **2023**
Vaccine **2021**
Journal of Survey Statistics and Methodology **2021, 2022**
Annals of Applied Statistics **2019, 2020**

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: LaTeX