

---

<b>CONTACT</b>	<b>Email:</b> serge.aleshin-guendel@duke.edu <b>Web:</b> aleshing.github.io	
<b>RESEARCH INTERESTS</b>	Bayesian Statistics, Record Linkage, Multiple-Systems Estimation, Spatio-Temporal Statistics, Human Rights, Child Mortality Estimation	
<b>PROFESSIONAL POSITIONS</b>	<b>Duke University</b> , Durham, NC Postdoctoral Associate Advisor: Beka Steorts, Ph.D.	<b>09/2022 - Present</b>
<b>EDUCATION</b>	<b>University of Washington</b> , 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	<b>08/2022</b>
	<b>Boston College</b> , Chestnut Hill, MA B.S. in Mathematics, Departmental Honors B.A. in Computer Science, Departmental Honors <i>Summa Cum Laude</i>	<b>05/2017</b>

**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](https://arxiv.org/abs/2205.09081)
2. **Aleshin-Guendel S**, Sadinle M, and Wakefield J. “The Central Role of the Identifying Assumption in Population Size Estimation.” To appear, *Biometrics*.  
 > Available on arXiv: [arXiv preprint arXiv:2101.09304](https://arxiv.org/abs/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](https://arxiv.org/abs/2008.09865).
3. **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](https://arxiv.org/abs/2110.03839)
4. **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.
5. **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.
6. 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.

7. 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. 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.” Submitted.
2. **Aleshin-Guendel S** and Wakefield J. “Adaptive Gaussian Markov Random Fields for Child Mortality Estimation.” In preparation.
3. **Aleshin-Guendel S**. “Latent Class Modeling in Space and Time.” 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**

Vaccine **2021**

Journal of Survey Statistics and Methodology **2021**

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**

<b>RESEARCH EXPERIENCE</b>	<b>Research Assistant</b>	
	University of Washington, Department of Biostatistics	
	Supervisor: Mauricio Sadinle	Fall 2019 - Summer 2022
	Supervisor: Susanne May	Winter 2020 - Summer 2020
		Summer 2019
	Fred Hutchinson Cancer Research Center	
	Supervisor: Ruth Etzioni	Fall 2017 - Summer 2018
	<b>Computational Biology and Biostatistics Summer Research Program</b>	
	University of Wisconsin-Madison, Department of Biostatistics & Medical Informatics	
	Supervisors: Mark Craven and Yuriy Sverchkov	Summer 2016
	<b>Columbia Summer Institute for Training in Biostatistics</b>	
	Columbia University, Department of Biostatistics	
	Supervisor: Christine Mauro	Summer 2015
<b>TEACHING EXPERIENCE</b>	<b>Teaching Assistant</b>	
	University of Washington	
	BIOST537 - Survival Data Analysis In Epidemiology	Winter 2021, Winter 2022
	BIOST570 - Advanced Regression Methods for Independent Data	Fall 2020
	BIOST509 - Introduction to R for Data Analysis in the Health Sciences	Fall 2018, Fall 2019
	BIOST310 - Biostatistics for the Health Sciences	Spring 2019
	STAT554 - Statistical Methods for Spatial Data	Winter 2019
	Boston College	
	CSCI2244 - Randomness & Computation	Spring 2016, Spring 2017
	CSCI3345 - Machine Learning	Fall 2016
	CSCI2243 - Logic & Computation	Fall 2015
	CSCI1101 - Computer Science I	Fall 2014 - Spring 2015
	<b>Grader</b>	
	Boston College	
	MATH4427 - Mathematical Statistics	Fall 2015, Spring 2017
	MATH3320 - Introduction to Analysis	Fall 2016
	MATH1180 - Principles of Statistics for the Health Sciences	Spring 2016
	MATH1004 - Finite Probability & Applications	Fall 2014 - Spring 2015
<b>ACTIVITIES</b>	<b>University of Washington</b>	
	Space-Time Reading Group	Fall 2017 - Spring 2019
<b>SKILLS</b>	<b>Languages:</b> R, C++, Stan, Python, Java	
	<b>Other:</b> L <sup>A</sup> T <sub>E</sub> X	