

Andee Kaplan

CONTACT INFORMATION	Department of Statistics Colorado State University Fort Collins, CO 80523-1877	<i>E-mail:</i> andee.kaplan@colostate.edu <i>WWW:</i> https://andeekaplan.com ORCID: 0000-0002-2940-889X
PROFESSIONAL APPOINTMENTS	Colorado State University , Department of Statistics, Fort Collins, CO Assistant Professor August 2019 – Present Duke University , Department of Statistical Science, Durham, NC Postdoctoral Associate August 2017 – July 2019	
EDUCATION	Ph.D. in Statistics , Iowa State University, Ames, IA 2017 M.S. in Statistics , Iowa State University, Ames, IA 2014 M.A. in Mathematics , The University of Texas, Austin, TX 2010 B.S. in Mathematics , The University of Texas, Austin, TX 2006	
RESEARCH INTERESTS	Bayesian Statistics, Computational Statistics, Record Linkage and Entity Resolution, Markov chain Monte Carlo, Spatial Resampling, Statistical Machine Learning, Interactive Statistical Graphics, Reproducible Research	
HONORS AND AWARDS	<i>Selected for “The Best of JCGS – Invited Papers” Session at JSM</i> 2019 “Designing Modular Software: A Case Study in Introductory Statistics” with E. Hare selected for inclusion in the session. <i>ISU Department of Statistics George W. Snedecor Award</i> 2015 This award honors the founder and first director of the Statistical Laboratory, George W. Snedecor, and is awarded to the most outstanding PhD candidate in the Department of Statistics. <i>American Statistical Association Computing Section Student Paper Award</i> 2015 Awarded for paper “Introductory statistics with intRo.” <i>ISU Department of Statistics Holly and Beth Fryer Scholarship</i> 2014 Criteria for this scholarship include grades received in Statistics and related courses, performance in assistantship duties and other information that indicates a high likelihood that the student will make contributions to the Statistics profession throughout their career. <i>Women in Statistics Conference Poster Award</i> 2014 Awarded for poster “Mathematical Self-Efficacy of Incoming Students at a Large Public University.” <i>American Statistical Association Data Exposition 1st Place</i> 2013 Awarded for poster “Putting Down Roots: A Graphical Exploration of Community Attachment.” <i>ISU Department of Statistics Vera David Fellowship</i> 2013 This fellowship, is given to a female student who has just completed her first year of graduate studies. The scholarship is awarded on the basis of academic achievement during the student’s first year. <i>NSF Research Experiences for Undergraduates</i> 2006 Participant in Extensible Undergraduate Research in Communications Applications, in the areas of Communications, Networks and Systems. <i>University of Texas at Austin Honors and Dean’s List</i> 2005 & 2006	

OTHER AWARDS	<i>ISBA Bayes Comp Conference Travel Award</i>	2020
	<i>IMS New Researchers Conference Travel Award</i>	2018 & 2019
	<i>IMA Frontiers in Forecasting Travel Award</i>	2018
	<i>Conference on Data Analysis Poster Grant</i>	2016
	<i>rOpenSci Unconf Travel Funding</i>	2015
	<i>Fields Institute Workshop on Visualization for Big Data Travel Award</i>	2015
	<i>Women in Statistics Conference Travel Award</i>	2014
	<i>ASA Joint Statistical Meetings Special Student Funding Travel Award</i>	2014

REFEREED

* Denotes student author.

JOURNAL PUBLICATIONS

- [1] **Kaplan, A.** and Bien, J. “Interactive Exploration of Large Dendrograms with Prototypes”. *The American Statistician* 77.2 (2023), pp. 201–211.
- [2] **Kaplan, A.**, Betancourt, B., and Steorts, R. C. “A Practical Approach to Proper Inference with Linked Data”. *The American Statistician* 76.4 (2022), pp. 384–393.
- [3] Lu, X.*, Hooten, M., **Kaplan, A.**, Womble, J., and Bower, M. “Improving Wildlife Population Inference Using Aerial Imagery and Entity Resolution”. *Journal of Agricultural, Biological and Environmental Statistics* 27.2 (2022), pp. 364–381.
- [4] Keller, J. P., Zhou, T., **Kaplan, A.**, Anderson, G. B., and Zhou, W. “Tracking the transmission dynamics of COVID-19 with a time-varying coefficient state-space model”. *Statistics in Medicine* 41.15 (2022), pp. 2745–2767.
- [5] Marchant, N.*, **Kaplan, A.**, Elazar, D. N., Rubinstein, B. I. P., and Steorts, R. C. “d-blink: Distributed End-to-End Bayesian Entity Resolution”. *Journal of Computational and Graphical Statistics* 30.2 (2021), pp. 406–421.
- [6] **Kaplan, A.**, Kaiser, M. S., Lahiri, S. N., and Nordman, D. J. “Simulating Markov Random Fields With a Conclique-Based Gibbs Sampler”. *Journal of Computational and Graphical Statistics* 29.2 (2020), pp. 286–296.
- [7] **Kaplan, A.**, Nordman, D., and Vardeman, S. “On the S-instability and degeneracy of discrete deep learning models”. *Information and Inference: A Journal of the IMA* 9.3 (2020), pp. 627–655.
- [8] **Kaplan, A.** and Hare, E. “Putting Down Roots: A Graphical Exploration of Community Attachment”. *Computational Statistics* 34.4 (2019), pp. 1449–1464.
- [9] **Kaplan, A.**, Nordman, D., and Vardeman, S. “Properties and Bayesian fitting of restricted Boltzmann machines”. *Statistical Analysis and Data Mining: The ASA Data Science Journal* 12.1 (2019), pp. 23–38.
- [10] Hare, E. and **Kaplan, A.** “Designing Modular Software: A Case Study in Introductory Statistics”. *Journal of Computational and Graphical Statistics* 26.3 (2017), pp. 493–500.
- [11] **Kaplan, A.**, Hofmann, H., and Nordman, D. “An interactive graphical method for community detection in network data”. *Computational Statistics* 32.2 (2017), pp. 535–557. ISSN: 1613-9658.
- [12] **Kaplan, A.**, Hare, E., Hofmann, H., and Cook, D. “Can you buy a president? Politics after the Tillman Act”. *Chance* 27.1 (2014), pp. 20–30.

PREPRINTS

- [13] Koslovsky, M., **Kaplan, A.**, and Hooten, M. “A Unified Bayesian Framework for Modeling Measurement Error in Multinomial Data” (2023+).
- [14] Taylor, I.*, **Kaplan, A.**, and Betancourt, B. “Generative Filtering for Recursive Bayesian Inference with Streaming Data” (2023+).
- [15] Biswas, E.*, **Kaplan, A.**, and Nordman, D. “A formal goodness-of-fit test for spatial binary Markov random field models” (2023+).
- [16] Taylor, I.*, **Kaplan, A.**, and Betancourt, B. “Fast Bayesian Record Linkage for Streaming Data Contexts” (2023+).

REFEREED
CONFERENCE
PRECEEDINGS

- [17] Mouzon, I., Genschel, U., Nguyen, X. H., **Kaplan, A.**, Carriquiry, A., and Mann, C. “A Cluster Analysis of STEM Gender Differences”. *Proceedings of the 18th Annual Conference on Research in Undergraduate Mathematics Education*. The SIGMAA on Research in Undergraduate Mathematics Education. 2015, pp. 793–800.

UNREFEREED
CONFERENCE
PRECEEDINGS

- [18] Hofmann, H., Cook, D., **Kaplan, A.**, Hare, E., Leos-Barajas, V., Sievert, C., and Tyner, S. “On the move at DinoFun world”. *Visual Analytics Science and Technology (VAST), 2015 IEEE Conference on*. IEEE. 2015, pp. 159–160.
- [19] Hofmann, H., Cook, D., **Kaplan, A.**, Hare, E., Leos-Barajas, V., Sievert, C., and Tyner, S. “Visualizing communication patterns at DinoFun World”. *Visual Analytics Science and Technology (VAST), 2015 IEEE Conference on*. IEEE. 2015, pp. 161–162.
- [20] Genschel, U., **Kaplan, A.**, Carriquiry, A., Johnston, E., Kliemann, W., Koehler, K., Mouzon, I., and Nguyen, H. “Statistical and Mathematical Self-Efficacy of Incoming Students at a Large Public University”. *Sustainability in Statistics Education, Proceedings of the Ninth International Conference on Teaching Statistics (ICOTS9), Flagstaff, Arizona, USA*. 2014.

GRANTS &
CONTRACTS

As PI: *Scalable Entity Resolution for Massive and Streaming Data Contexts* (NSF) PI: Kaplan (\$323,050). Pending.

As PI: *CAREER: Flexible Record Linkage through Realistic Modeling of Dependent, Missing, and Updating Data* (NSF) PI: Kaplan (\$584,002). Pending.

As PI: *EnviBayes Workshop on Complex Environmental Data* (NSF) PI: Kaplan (\$20,000). September 2023 - August 2024.

As PI: *Faculty and Staff Success Initiative Grant* (CSU CNS) PI: Kaplan (\$5,000). Summer 2023.

As PI: *Online Bayesian Learning for Streaming Entity Resolution* (DoD via North Carolina State University Laboratory for Analytic Sciences). PI: Kaplan and Brenda Betancourt (CSU: \$56,411). January 2022 - August 2022.

As PI: *Streaming Record Linkage for Online Data Deduplication* (DoD via North Carolina State University Laboratory for Analytic Sciences). PI: Kaplan and Brenda Betancourt (\$130,352; CSU: \$90,624). January 2021 - December 2021.

As PI: *Streaming Record Linkage for Online Data Deduplication* (DoD via North Carolina State University Laboratory for Analytic Sciences). PI: Kaplan and Brenda Betancourt (\$132,398; CSU: \$92,033). January 2020 - December 2020.

As PI: *An Extensible Model for Deduplication of the GDELT Events Database* (DoD via North Carolina State University Laboratory for Analytic Sciences). PI: Kaplan (\$23,996). August 2019 - December 2019.

As Co-PI: *Posterior Prototyping: Bridging the Gap between Record Linkage and Regression* (DoD via North Carolina State University Laboratory for Analytic Sciences). PI: Brenda Betancourt and Rebecca C. Steorts (\$96,897). January 2019 - December 2019.

SOFTWARE

- [1] Taylor, I.*, **Kaplan, A.**, and Betancourt, B. *bstrl: Bayesian Streaming Record Linkage*. R package version 0.1.0. 2022.
- [2] **Kaplan, A.** and Bien, J. *protoshiny: Interactive dendrograms for Visualizing Hierarchical Clusters with Prototypes*. R package version 0.1.0. 2022.

- [3] **Kaplan, A.**, Betancourt, B., and Steorts, R. C. *representr: Create Representative Records After Entity Resolution*. R package version 0.1.4. 2022.
- [4] Marchant, N., Steorts, R. C., and **Kaplan, A.** *dblink: Distributed End-to-End Bayesian Entity Resolution*. Scala package version 0.2.0. 2020.
- [5] **Kaplan, A.** and Nordman, D. *conclique: Gibbs Sampling for Spatial Data and Concliques*. R package version 0.1.0. 2017.
- [6] Hare, E. and **Kaplan, A.** *intRo: Download and Run the intRo Statistical Software*. R package version 0.1. 2017.
- [7] **Kaplan, A.** *forestr: Random Forests with a User Created Splitting Criterion*. R package version 0.0.0.9000. 2015.

INVITED TALKS

- [1] “Improved Recursive Bayesian Inference with Streaming Data”. *75th Anniversary Research Conference*. Invited Talk. Iowa State University Department of Statistics. Ames, IA, USA, Oct. 2023.
- [2] “Improving Bayesian inference with streaming data”. *EnviBayes Workshop on Complex Environmental Data*. Invited Talk. ISBA. Fort Collins, CO, USA, Sept. 2023.
- [3] “Understanding Tree Demography Using Overlapping Lidar Scans and Spatial Entity Resolution”. *WNAR/IMS Annual Meeting*. Invited Paper. WNAR. Anchorage, AK, June 2023.
- [4] “Fast Bayesian Record Linkage for Streaming Data Contexts”. *14th International Conference of the ERCIM WG on Computational and Methodological Statistics*. Organized Invited Session. European Research Consortium for Informatics and Mathematics. London, UK (Remote via Zoom), Dec. 2022.
- [5] “Fast Bayesian Record Linkage for Streaming Data”. *Record Linkage Interest Group of the ASA Seminar*. Georgetown University, Massive Data Institute. Washington, D.C., USA (Remote via Zoom), July 2022.
- [6] “Exploring Interactive Dendrograms with Prototypes”. *Invited Talk*. Iowa State University, Graphics Group. Ames, IA, USA (Remote via Zoom), Nov. 2020.
- [7] “Bayesian Canonicalization of Voter Registration Files”. *Symposium on Data Science and Statistics*. Invited Session. ASA. Pittsburgh, PA, USA (Remote via Zoom), June 2020.
- [8] “Life after record linkage: Tackling the downstream task with error propagation”. *Bayes Comp*. Invited Session. ISBA. Gainesville, FL, USA, Jan. 2020.
- [9] “Posterior Prototyping for Bayesian Entity Resolution”. *12th International Conference of the ERCIM WG on Computational and Methodological Statistics*. Organized Invited Session. European Research Consortium for Informatics and Mathematics. London, UK, Dec. 2019.
- [10] “Designing Modular Software: a Case Study in Introductory Statistics”. *Joint Statistical Meetings*. Invited Session. ASA. Denver, CO, USA, July 2019.
- [11] “A Fast Sampler for Data Simulation from Markov Random Fields”. *Invited Session*. The 28th Annual Conference of the International Envirometrics Society. Guanajuato, Gto., Mexico, July 2018.
- [12] “Model matters with restricted Boltzmann Machines”. *Keynote*. The 1st Midwest Statistical Machine Learning Colloquium. Ames, IA, USA, May 2018.
- [13] “Goodness-of-Fit Tests for Spatial Markov Random Fields”. *8th International Conference of the ERCIM WG on Computational and Methodological Statistics*. Organized Invited Session. European Research Consortium for Informatics and Mathematics. London, UK, Dec. 2015.
- [14] “Putting Down Roots: A Graphical Exploration of Community Attachment”. *Census Data Visualization Seminar*. U.S. Census Bureau. Washington, D.C., USA, Sept. 2013.

- [1] University of California Santa Cruz, Department of Statistics. Santa Cruz, CA (Remote via Zoom), Mar. 2023.
- [2] Dalhousie University, Department of Statistics. Halifax, NS, Canada (Remote via Zoom), Mar. 2023.
- [3] Colorado School of Public Health, Department of Biostatistics and Informatics. Denver, CO, Oct. 2022.
- [4] Colorado School of Mines, Department of Applied Mathematics and Statistics. Golden, CO, Apr. 2022.
- [5] McGill University, Department of Biostatistics. Montreal, QC, Canada (Remote via Zoom), Mar. 2022.
- [6] University of Iowa, Department of Statistics and Actuarial Science. Iowa City, IA, USA (Remote via Zoom), Sept. 2021.
- [7] University of Toronto, Department of Statistics. Toronto, ON, Canada (Remote via Zoom), Nov. 2020.
- [8] New York University, Center for Practice, Research at the Intersection of Information, Society, and Methodology. New York, NY, USA (Remote via Zoom), Oct. 2020.
- [9] The University of Wisconsin, Systems, Information, Learning and Optimization (SILO) Research Group. Madison, WI, USA, Nov. 2019.
- [10] Duke University, Department of Computer Science. Durham, NC, USA, Apr. 2019.
- [11] The University of California Irvine, Department of Statistics. Irvine, CA, USA, Feb. 2019.
- [12] The University of Kentucky, Department of Statistics. Lexington, KY, USA, Feb. 2019.
- [13] The Pennsylvania State University, Department of Statistics. State College, PA, USA, Feb. 2019.
- [14] Virginia Tech University, Department of Statistics. Blacksburg, VA, USA, Feb. 2019.
- [15] The University of Wisconsin, Department of Statistics. Madison, WI, USA, Feb. 2019.
- [16] Colorado State University, Department of Statistics. Fort Collins, CO, USA, Jan. 2019.
- [17] The University of Texas at Austin, Department of Statistics and Data Science. Austin, TX, USA, Jan. 2019.
- [18] Stanford University, Department of Statistics. Stanford, CA, USA, Jan. 2019.
- [19] Monash University, Department of Econometrics and Business Statistics. Melbourne, VIC, Australia, Jan. 2019.
- [20] Texas A&M University, Department of Statistics. College Station, TX, USA, Nov. 2018.
- [21] North Carolina State University, Department of Statistics. Raleigh, NC, USA, Oct. 2018.
- [22] Iowa State University, Department of Statistics. Ames, IA, USA, Jan. 2018.
- [23] North Carolina State University, Department of Statistics. Raleigh, NC, USA, Nov. 2017.
- [24] Centro de Investigación en Matemáticas. Guanajuato, Gto., Mexico, Oct. 2017.
- [25] Duke University, Department of Statistical Science. Durham, NC, USA, Apr. 2017.
- [26] Michigan State University, Department of Statistics and Probability. East Lansing, MI, USA, Feb. 2017.
- [27] University of Illinois, Urbana-Champaign, Department of Statistics. Champaign, IL, USA, Feb. 2017.
- [28] University of Florida, Department of Statistics. Gainesville, FL, USA, Feb. 2017.
- [29] Rice University, Department of Statistics. Houston, TX, USA, Jan. 2017.
- [30] University of Virginia, Department of Statistics. Charlottesville, VA, USA, Jan. 2017.

- [31] Arizona State University, School of Mathematical and Statistical Sciences. Tempe, AZ, USA, Jan. 2017.
- [32] University of Massachusetts, Amherst, Department of Mathematics & Statistics. Amherst, MA, USA, Dec. 2016.
- [33] Iowa State University, Department of Statistics. Ames, IA, USA, Jan. 2015.

INVITED SHORT
COURSES

Some of Record Linkage, Full-Day Workshop
Co-instructor

US Census Bureau

May 2018

Centro de Investigación de Matemáticas, A. C.

February 2018

Machine Learning Day, Full-Day Event
Co-organizer

Duke University

March 2018

D3 Workshop, Half-Day Workshop
Co-instructor

NORC at the University of Chicago

October 2015

Week of R, Week-Long Workshop
Co-instructor

Iowa State University

June 2013, 2014, 2015

CONTRIBUTED
TALKS

- [1] “Counting Casualties in the Syrian Civil War with Bayesian Record Linkage”. *Joint Statistical Meetings*. Topic Contributed Paper. ASA. Vancouver, BC, Canada, July 2018.
- [2] “Population Sized Graphical Record Linkage”. *ISBA World Meeting*. Contributed Member Paper. ISBA. Edinburgh, UK, June 2018.
- [3] “A Simple, Fast Sampler for Simulating Spatial Data and Other Markovian Data Structures”. *Joint Statistical Meetings*. Contributed Paper. ASA. Baltimore, MD, USA, Aug. 2017.
- [4] “An exposition on the propriety of restricted Boltzmann machines”. *Joint Statistical Meetings*. Contributed Paper. ASA. Chicago, IL, USA, July 2016.
- [5] “Introducing Statistics with intRo”. *The R User Conference*. Contributed Paper. Stanford, CA, USA, June 2016.
- [6] “Introducing Statistics with intRo”. *Joint Statistical Meetings*. Topic Contributed Paper. ASA. Seattle, WA, USA, Aug. 2015.
- [7] “gravicom - A web-based tool for community detection in networks”. *Joint Statistical Meetings*. Contributed Paper. ASA. Boston, MA, USA, Aug. 2014.

POSTERS

- [1] “A Bayesian Entity Resolution Approach to Tree Demography Using Overlapping Lidar Scans”. *Joint Statistical Meetings*. Invited Poster. ASA. Toronto, ON, Canada, Aug. 2023.
- [2] “Life After Record Linkage: Tackling the Downstream Task with Error Propagation”. *New Researchers Conference*. Contributed Poster. Institute of Mathematical Statistics. Fort Collins, CO, USA, July 2019.
- [3] “Population Sized Record Linkage”. *New Researchers Conference*. Contributed Poster. Institute of Mathematical Statistics. Vancouver, BC, Canada, July 2018.
- [4] “Properties and Bayesian fitting of restricted Boltzmann machines”. *Frontiers in Forecasting*. Contributed Poster. Institute for Mathematics and its Application, University of Minnesota. Minneapolis, MN, USA, Feb. 2018.

- [5] “An Exposition on the Propriety of Restricted Boltzmann Machines”. *Conference on Data Analysis*. Contributed Poster. Los Alamos National Laboratory. Santa Fe, NM, USA, Mar. 2016.
- [6] “Visualizing Linked Data Sources for the National Children’s Study”. *Conference on Statistical Practice*. Contributed Poster. ASA. San Diego, CA, USA, Feb. 2016.
- [7] “Mathematical Self-Efficacy of Incoming Students at a Large Public University”. *Women in Statistics Conference*. Student Poster. ASA. Cary, NC, USA, May 2014.
- [8] “Putting Down Roots: A Graphical Exploration of Community Attachment”. *Joint Statistical Meetings*. Data Exposition Poster. ASA. Montreal, QC, Canada, Aug. 2013.
- [9] “Can you buy a president? Politics after the Tillman Act”. *Joint Statistical Meetings*. Contributed Poster. ASA. Montreal, QC, Canada, Aug. 2013.

TEACHING
EXPERIENCE

*Denotes courses developed.

CSU	STAT 630	Advanced Statistical Data Analysis	F23
CSU	STAA 577	Statistical Learning and Data Mining	S23, F23
CSU	DSCI 445*	Statistical Machine Learning	F20, F21, F22 , F23
CSU	STAT 730	Advanced Theory of Statistics I	S20
CSU	STAT 400	Statistical Computing	F19, F20, F21, F22
ISU	STAT 305	Engineering Statistics	S17, SU17
ISU	AGRON 590DS	Data Stewardship for Earth Systems Scientists	F16
ISU	STAT 226	Introduction to Business Statistics	S13

MENTORSHIP

Graduate Students

Ian Taylor, PhD Advisor (Co-advisor: Bailey Fosdick)	Fall 2023 (Anticipated)
Lane Drew, PhD Advisor	Fall 2024 (Anticipated)
Hannah Butler, PhD Advisor	Spring 2026 (Anticipated)
Hyungjoon Kim, PhD Advisor (Co-advisor: Matt Koslovsky)	Spring 2027 (Anticipated)
Wilson Wright, PhD Committee Member,	Spring 2024 (Anticipated)
Justin Van Ee, PhD Committee Member	Summer 2023
Connor Gibbs, PhD Committee Member,	Spring 2023
Alex Fout, PhD Committee Member	Summer 2022
Xinyi (Lucy) Lu, PhD Committee Member	Summer 2021
Casey Schafer, GRA	Fall 2019

Undergraduate Students

Caleb Chou (Colorado State University), Undergraduate Research	Summer 2023
Ryan Volkert (Colorado State University), Undergraduate Research	Spring 2021
Olivia Beck (Colorado State University), Honors Thesis Committee Member	Fall 2019
Ritika Bharati (Duke University), Undergraduate Research	Spring 2018 - Spring 2019
Srini Sunil (Duke University), Undergraduate Research	Fall 2017 - Spring 2019

INDUSTRY
EXPERIENCE

NORC at the University of Chicago, Chicago, Illinois USA

Graduate Research Assistant May, 2015 - August, 2015
Summer internship with Statistics and Methodology Department. Primarily developed web-based interactive graphics using JavaScript library D3 to explore data linkage for extant sources.

Banks Information Group, Austin, Texas USA

Independent Contractor July, 2011 - July, 2012
Developed web-based environmental GIS reporting tool for Phase I reporting, developed and imple-

mented a web-based tool to convert images to PDF files programatically, and utilized ESRI ArcSDE and .NET/C#, as well as Microsoft SQL Server for development.

Sense Corp, Austin, Texas USA

Consultant

July, 2009 - July, 2011

Designed monthly subscriber activity forecasts across key markets at a top-five broadband telecommunications company using ARIMA time series modeling in R. Developed an automated process and custom web application designed for Business Intelligence Group use to run forecasts and analyze long-term trends in activity. Analyzed the effects of explanatory factors on elevated truck rolls and presented findings to corporate leadership.

Gelb Consulting Group, Houston, Texas USA

Intern Analyst

June, 2008 - August, 2008

Internal consultant focusing on revising several standard operating procedures, including regression and factor analysis.

SERVICE AND
LEADERSHIP

Colorado State University

Departmental Service

Graduate Admissions Committee	2020-2021, 2022-2023, 2023-2024
Diversity, Equity and Inclusion Committee	2023-2024
Undergraduate Committee	2022-2023
Search Committee	2020-2021, 2021-2022
Data Science Committee	2019-2020, 2020-2021
Statistical Learning and Data Science Journal Club Co-organizer	2020
Seminar Co-organizer	2019-2020

University Service

Data Science Research Institute Steering Committee	Fall 2020 - Present
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Service to the Profession

Associate Editor

Technometrics	January 2022 - Present
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Reviewer

AIStats, American Political Science Review, ASA SBSS Student Paper Competition, Annals of Applied Statistics, Bayesian Analysis, Computational Statistics & Data Analysis, Environmental and Ecological Statistics, Journal of the American Statistical Association, Journal of Computational and Graphical Statistics, Journal of the Royal Statistical Society, Section A, Journal of Survey Statistics and Methodology, PLOS One, Statistics and Probability Letters, Statistics and Public Policy, Statistical Science, Survey Methodology

NSF Panelist (DMS)

Chair of Conference Organizing Committee

EnviBayes Workshop on Complex Environmental Data, Fort Collins, CO, USA	September 2023
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Other Conferences

Invited Session Organizer, WNAR, Anchorage, AK, USA	June 2023
Local Organizing Committee Member, IISA International Conference, Golden, CO, USA	June 2023

Co-organizer, Symposium for Data Science & Statistics, Pittsburgh, PA, USA	June 2020
Invited Session Chair, JSM, Denver, CO, USA	August 2019
Contributed Session Organizer, JSM, Vancouver, BC, Canada	August 2018

Statistics in the Community (StatCom)

Network Outreach Coordinator	2015 - 2017
Executive Committee, ISU Chapter	2013 - 2017

Iowa State University

Student representative to departmental faculty meetings	2015 - 2017
STATers, social organization for graduate students, Vice President	2013 - 2014
Graduate and Professional Student Senate, Senator	2012 - 2013

COMPUTING

- Mathematical and Statistical Computing: R, Rcpp, Shiny, Julia, STAN, JAGS, SAS, Matlab; some experience with Python and SPSS.
- Other Languages: C++, JavaScript (and D3), Java, SQL, C#, .NET, HTML5, CSS3, Markdown.
- Content Management: Git