## Mevin B. Hooten

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Experience:	UNIVERSITY OF TEXAS at AUSTIN, Austin, TX  • Professor 2021-  • Department of Statistics and Data Sciences	-
	COLORADO STATE UNIVERSITY, Fort Collins, CO  • Professor 2018-2021  • Department of Fish, Wildlife, and Conservation Biology  • Department of Statistics	
	<ul> <li>Associate Professor</li> <li>Department of Fish, Wildlife, and Conservation Biology</li> <li>Department of Statistics</li> </ul>	, •
	<ul> <li>Assistant Professor</li> <li>Department of Fish, Wildlife, and Conservation Biology</li> </ul>	,
	<ul> <li>Department of Statistics</li> <li>Faculty Affiliate, Graduate Degree Program in Ecology</li> <li>2010-</li> </ul>	-
	U.S. GEOLOGICAL SURVEY, Fort Collins, CO  • Assistant Unit Leader  • Colorado Cooperative Fish and Wildlife Research Unit	1
	<ul> <li>UTAH STATE UNIVERSITY, Logan, UT</li> <li>Assistant Professor of Statistics, Department of Mathematics and Statistics</li> <li>Adjunct Faculty, Department of Wildland Resources</li> <li>Faculty Associate, Ecology Center</li> </ul>	
Education:	UNIVERSITY OF MISSOURI, Columbia, MO  • Ph.D. Statistics Advisor: Christopher K. Wikle  • Dissertation Topic: Hierarchical spatio-temporal models for ecological processes	
	UNIVERSITY OF MISSOURI, Columbia, MO  • M.S. Forest Ecology Advisor: David R. Larsen  • Thesis Topic: Modeling the spatial distribution of ground flora	
	<ul> <li>KANSAS STATE UNIVERSITY, Manhattan, KS</li> <li>B.S. Natural Resource Management Advisor: Mark Morgan</li> <li>Minor in Wildlife Biology</li> </ul>	

#### **Books:**

Hooten, M.B. and T.J. Hefley. (2019). Bringing Bayesian Models to Life. Chapman & Hall/CRC.

Hooten, M.B., D.S. Johnson, B.T. McClintock, and J. Morales. (2017). Animal Movement: Statistical Models for Telemetry Data. Chapman & Hall/CRC.

Hobbs, N.T. and M.B. Hooten. (2015). Bayesian Models: A Statistical Primer for Ecologists. Princeton University Press.

**Selected Publications:** (students and post-docs underlined)

<u>Raiho, A., H.R. Scharf</u>, C.A. Roland, D.K. Swanson, S.E. Stehn, and M.B. Hooten. (In Press). Searching for refuge: A framework for identifying site factors conferring resistance to climate-driven vegetation change. *Diversity and Distributions*.

<u>Lu, X.</u>, M.B. Hooten, A. Kaplan, J.N. Womble, and M.R. Bower. (In Press). Improving wildlife population inference from aerial imagery data through entity resolution. *Journal of Agricultural, Biological, and Environmental Statistics*.

<u>Scharf, H.R., X. Lu, P.J. Williams</u>, and M.B. Hooten. (In Press). Constructing flexible, identifiable, and interpretable statistical models for binary data. *International Statistical Review*.

<u>Schafer, T.L.J.</u>, C.K. Wikle, and M.B. Hooten. (In Press). Bayesian inverse reinforcement learning for collective animal movement. *Annals of Applied Statistics*.

<u>Scharf, H.R., A. Raiho, S. Pugh, C.A. Roland, D.K. Swanson, S.E. Stehn, and M.B. Hooten.</u> (In Press). Multivariate Bayesian clustering using covariate-informed components with application to boreal vegetation sensitivity. *Biometrics*.

<u>Leach, C.B.</u>, P.J. Williams, J.M. Eisaguirre, J.N. Womble, M.R. Bower, and M.B. Hooten. (2022). Recursive Bayesian computation facilitates adaptive optimal design in ecological studies. *Ecology*, **103**: e03573.

<u>Feuka, A.B.</u>, M.G. Nafus, A.A. Yackel Adams, L.L. Bailey, and M.B. Hooten. (2022). Endogenous and exogenous mechanisms affecting invasive reptile movement at multiple scales. *Movement Ecology*, **10**: 2.

<u>Raiho, A.,</u> E.F. Nicklen, A. Foster, C.A. Roland, and M.B. Hooten. (2021). Bridging implementation gaps to connect large ecological datasets to complex models. *Ecology and Evolution*, **11**: 18271-18287.

Lepak, J.M., A.G. Hansen, M.B. Hooten, D. Brauch, and E.M. Vigil. (2021). Rapid proliferation of the parasitic copepod *Salmincola californiensis* on kokanee salmon in a large Colorado reservoir. *Journal of Fish Diseases*, **45**: 89-98.

<u>Eisaguirre, J.M.</u>, P.J. Williams, <u>X. Lu</u>, M.L. Kissling, W.W. Beatty, G.G. Esslinger, J.N. Womble, and M.B. Hooten. (In Press). Diffusion modeling reveals effects of multiple release sites and human activity on a recolonizing apex predator. *Movement Ecology*, **9**: 34.

Banks, D.L. and M.B. Hooten. (2021). Statistical challenges in agent-based modeling. *The American Statistician*, **75**: 235-242.

Williamson, M.A., B.G. Dickson, M.B. Hooten, R.A. Graves, M.N. Lubell, and M.W. Schwartz.

- (2021). Accounting for incomplete reporting improves inference about private land conservation. *Conservation Biology*, **35**: 1174-1185.
- Hooten, M.B., D.S. Johnson, and B.M. Brost. (2021). Making recursive Bayesian inference accessible. *The American Statistician*, **75**: 185-194.
- McCaslin, H.M., A.B. Feuka, and M.B. Hooten. (2021). Hierarchical computing for hierarchical models in ecology. *Methods in Ecology and Evolution*, **12**: 245-254.
- Lasky, J.R., M.B. Hooten, and P.B. Adler. (2020). What processes must we understand to forecast regional scale population dynamics? *Proceedings of the Royal Society, Series B*, **287**: 20202219.
- <u>Leach, C.</u>, J.A. Hoeting, K. Pepin, A. Eiras, M.B. Hooten, and C. Webb. (2020). Linking mosquito surveillance to dengue fever through Bayesian mechanistic modeling. *PLoS Neglected Tropical Diseases*, **14**: *e0008868*.
- Hooten, M.B., C.K. Wikle, and M.R. Schwob. (2020). Statistical implementations of agent-based demographic models. *International Statistical Review*, **88**: 441-461.
- <u>Brost</u>, <u>B.M.</u>, M.B. Hooten, and R.J. Small. (2020). Model-based clustering reveals patterns in central place use of a marine top predator. *Ecosphere*, **11**: e03123.
- Hooten, M.B., X. Lu, M.J. Garlick, and J.A. Powell. (2020). Animal movement models with mechanistic selection functions. *Spatial Statistics*, **37**: 100406.
- <u>Lu, X., P.J. Williams</u>, M.B. Hooten, J.A. Powell, J.N. Womble, and M.R. Bower. (2020). Nonlinear reaction-diffusion process models improve inference for population dynamics. *Environmetrics*, **31**: e2604.
- Hooten, M.B., S. Pugh, and C.A. Roland. (2020). Geary's contiguity ratio (Geary's c). *Wiley StatsRef: Statistics Reference Online*.
- <u>Christianson, K.R.</u>, B.M. Johnson, and M.B. Hooten. (2020). Compound effects of water clarity, inflow, wind, and climate warming on mountain lake thermal regimes. *Aquatic Sciences*, **82**: 6.
- <u>Tipton, J.R.</u>, M.B. Hooten, C. Nolan, R.K. Booth, and J. McLachlan. (2019). Predicting paleoclimate from compositional data using multivariate Gaussian process inverse prediction. *Annals of Applied Statistics*, **13**: 2363-2388.
- <u>Gerber, B.D.</u>, M.B. Hooten, <u>C.P. Peck</u>, M.B. Rice, J.H. Gammonley, A.D. Apa, and A.J. Davis. (2019). Extreme site fidelity as an optimal strategy in an unpredictable and homogeneous environment. *Functional Ecology*, **33**: 1695-1707.
- <u>Williams, P.J., W.L.</u> Kendall, and M.B. Hooten. (2019). Selecting ecological models using multi-objective optimization. *Ecological Modelling*, **404**: 21-26.
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- Hooten, M.B., J.M. Ver Hoef, and E.M. Hanks. (2019). Simultaneous autoregressive (SAR) model. *Wiley StatsRef: Statistics Reference Online*.

- <u>Scharf, H.R.</u>, M.B. Hooten, R.R. Wilson, G.M. Durner, T.C. Atwood. (2019). Accounting for phenology in the analysis of animal movement. *Biometrics*, **75**: 810-820.
- <u>Christianson, K.R.</u>, B.M. Johnson, M.B. Hooten, and J.J. Roberts. (2019). Estimating lake-climate responses from sparse data: an application to high elevation lakes. *Limnology and Oceanography*, **64**: 1371-1385.
- Peterson, E.E., <u>E.M. Hanks</u>, M.B. Hooten, J.M. Ver Hoef, and M.-J. Fortin. (2019). Spatially structured statistical network models for landscape genetics. *Ecological Monographs*, **89**: e01355.
- Williams, P.J., M.B. Hooten, G.G. Esslinger, J.N. Womble, J. Bodkin, and M.R. Bower. (2019). The rise of an apex predator following deglaciation. *Diversity and Distributions*, **25**: 895-908.
- <u>Ketz, A.C.</u>, T.L. Johnson, M.B. Hooten, and N.T. Hobbs. (2019). A hierarchical Bayesian approach for handling missing classification data. *Ecology and Evolution*, **9**: 3130-3140.
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- <u>Buderman, F.E.,</u> M.B. Hooten, M. Alldredge, E.M. Hanks, and J.S. Ivan. (2018). Time-varying predatory behavior is primary predictor of fine-scale movement of wildland-urban cougars. *Movement Ecology*, **6**: 22.
- <u>Gerber, B.D.</u>, M.B. Hooten, <u>C.P. Peck</u>, M.B. Rice, J.H. Gammonley, A.D. Apa, and A.J. Davis. (2018). Accounting for location uncertainty in azimuthal telemetry data improves ecological inference. *Movement Ecology*, **6**: 14.
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- Ver Hoef, J.M., E.M. Hanks, and M.B. Hooten. (2018). On the relationship between conditional (CAR) and simultaneous (SAR) autoregressive models. *Spatial Statistics*, **25**: 68-85.
- <u>Ketz, A.C.</u>, T.L. Johnson, R.J. Monello, J. Mack, J.L. George, B.R. Kraft, M.A. Wild, M.B. Hooten, and N.T. Hobbs. (2018). Estimating abundance of an open population with an N-mixture model using auxiliary data on animal movements. *Ecological Applications*, **28**: 816-825.
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- dynamic spatio-temporal ecological processes optimally. *Ecology*, **99**: 524-535.
- Ver Hoef, J.M., E.E. Peterson, M.B. Hooten, E.M. Hanks, and M-J. Fortin. (2018). Spatial autoregressive models for statistical inference from ecological Data. *Ecological Monographs*, **88**: 36-59.
- Itter, M.S., A.O. Finley, M.B. Hooten, P.E. Higuera, J.R. Marlon, R. Kelly, and J.S. McLachlan. (2018). A model-based approach to wildland fire reconstruction using sediment charcoal records. *Environmetrics*, **28**: e2450.
- <u>Buderman, F.M.</u>, M.B. Hooten, J.S. Ivan, and T.M. Shenk. (2018). Large-scale movement behavior in a reintroduced predator population. *Ecography*, **41**: 126-139.
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- <u>Hefley, T.J., B.M. Brost</u>, and M.B. Hooten. (2017). Bias correction of bounded location errors in presence-only data. *Methods in Ecology and Evolution*, **8**: 1566-1573.
- Steger, C., B. Butt, and M.B. Hooten. (2017). Safari Science: Assessing the reliability of citizen science data for wildlife surveys. *Journal of Applied Ecology*, **54**: 2053-2062.
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- <u>Hanks</u>, E.M., D.S. Johnson, and M.B. Hooten. (2017). Reflected stochastic differential equation models for constrained animal movement. *Journal of Agricultural*, *Biological*, and *Environmental Statistics*, **22**: 353-372.
- Scharf, H., M.B. Hooten, and D.S. Johnson. (2017). Imputation approaches for animal movement modeling. *Journal of Agricultural, Biological, and Environmental Statistics*, **22**: 335-352.
- <u>Hefley, T.J.</u>, M.B. Hooten, R.E. Russell, D.P. Walsh, and J. Powell. (2017). When mechanism matters: forecasting the spread of disease using ecological diffusion. *Ecology Letters*, **20**: 640–650.
- Pepin, K.M., <u>S.L. Kay</u>, B. Golas, S.S. Shriner, A.T. Gilbert, R.S. Miller, A.L. Graham, S. Riley, P.C. Cross, M.D. Samuel, M.B. Hooten, J.A. Hoeting, J.O. Lloyd-Smith, C.T. Webb, and M.B. Buhnerkempe. (2017). Inferring infection hazard in wildlife populations by linking data across individual and population scales. *Ecology Letters*, **20**: 275–292.
- Roberts, J.J., K.D. Fausch, M.B. Hooten, and D.P. Peterson. (2017). Nonnative trout invasions combined with climate change threaten persistence of isolated cutthroat trout populations in the southern Rocky Mountains. *North American Journal of Fisheries Management*, **37**: 314-325.
- <u>Meredith, C.S., P. Budy, M.B. Hooten, and M.O. Prates.</u> (2017). Assessing abiotic conditions influencing the longitudinal distribution of exotic brown trout (*Salmo trutta*) in a mountain stream: a spatially-explicit modeling approach. *Biological Invasions*, **19**: 503-519.
- Hooten, M.B. and D.S. Johnson. (2017). Basis function models for animal movement. *Journal of the American Statistical Association*, **112**: 578-589.

- <u>Tredennick, A.T.</u>, M.B. Hooten, and P.B. Adler. (2017). Do we need demographic data to forecast the state of plant populations? *Methods in Ecology and Evolution*, **8**: 541-551.
- <u>Hefley, T.J.</u>, M.B. Hooten, E.M. Hanks, R.E. Russell, and D.P. Walsh. (2017). Dynamic spatiotemporal models for spatial data. *Spatial Statistics*, **20**: 206-220.
- <u>Hefley, T.J., K.M. Broms, B.M. Brost, F.E. Buderman, S.L. Kay, H.R. Scharf, J.R. Tipton, P.J. Williams</u>, and M.B. Hooten. (2017). The basis function approach to modeling autocorrelation in ecological data. *Ecology*, **98**: 632-646.
- <u>Williams, P.J.,</u> M.B. Hooten, J.N. Womble, G.G. Esslinger, M.R. Bower, and <u>T.J. Hefley</u>. (2017). An integrated data model to estimate spatio-temporal occupancy, abundance, and colonization dynamics. *Ecology*, **98**: 328-336
- Small, R.J., <u>B.M. Brost</u>, M.B. Hooten, M. Castellote, and J. Mondragon. (2017). Potential for spatial displacement of Cook Inlet beluga whales by anthropogenic noise in critical habitat. *Endangered Species Research*, **32**: 43-57.
- <u>Hefley, T.J.,</u> M.B. Hooten, E.M. Hanks, R.E. Russell, and D.P. Walsh. (2017). The Bayesian group lasso for confounded spatial data. *Journal of Agricultural, Biological and Environmental Statistics*, **22**: 42-59.
- <u>Tipton, J.,</u> M.B. Hooten, and <u>S. Goring</u>. (2017). Reconstruction of spatio-temporal temperature from sparse historical records using robust probabilistic principal component regression. *Advances in Statistical Climatology, Meteorology and Oceanography*, **3**: 1-16.
- <u>Brost</u>, B.M., M.B. Hooten, and R.J. Small. (2017). Leveraging constraints and biotelemetry data to pinpoint repetitively used spatial features. *Ecology*, **98**: 12-20.
- Arab, A., M.B. Hooten, and C.K. Wikle (2017). Hierarchical Spatial Models. *In: Encyclopedia of Geographical Information Science, Second Edition*. Springer.
- <u>Davis</u>, A.J., M.B. Hooten, R.S. Miller, M. Farnsworth, J. Lewis, K.M. Moxcey, and K.M. Pepin. (2016). Inferring invasive species abundance using removal data from management actions. *Ecological Applications*, **26**: 2339–2346.
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- a population decline be determined? *Ecology Letters*, **19**: 1353-1362
- <u>Williams, P.J.</u> and M.B. Hooten. (2016). Combining statistical inference and decisions in ecology. *Ecological Applications*, **26**: 1930-1942.
- <u>Ruiz-Gutierrez, V.</u>, M.B. Hooten, and E.H. Campbell Grant. (2016). Uncertainty in biological monitoring: a framework for data collection and analysis to account for multiple sources of sampling bias. *Methods in Ecology and Evolution*, **7**: 900-909.
- <u>Broms, K.M.,</u> M.B. Hooten, and <u>R.M. Fitzpatrick</u>. (2016). Model selection and assessment for multi-species occupancy models. *Ecology*, **97**: 194-207.
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- Broms, K.M., M.B. Hooten, D.S. Johnson, L.L. Conquest, and R. Altwegg. (2016). Dynamic occupancy models for explicit colonization processes. *Ecology*, **97**: 194-204.
- <u>Raiho, A.</u>, M.B. Hooten, S. Bates, and N.T. Hobbs. (2015). Forecasting the effects of fertility control on overabundant ungulates: White-tailed deer in the National Capital region. *PLoS One*, **10**: e0143122.
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- Wilson, T.L., J.B. Odei, M.B. Hooten, and T.C. Edwards. (2010). Hierarchical spatial models for predicting pygmy rabbit distribution and relative abundance. *Journal of Applied Ecology*, **47**: 401-409.
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Hooten, M.B., C.K. Wikle, S. Sheriff, and J. Rushin. (2009). Optimal spatio-temporal hybrid sampling designs for ecological monitoring. *Journal of Vegetation Science*, **20**: 639-649.

Mock, K., C. Rowe, M.B. Hooten, A.J. DeWoody, and V.D. Hipkins. (2008). Clonal dynamics in western North American aspen (Populus tremuloides). *Molecular Ecology*, **17**: 4827-4844.

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Hooten, M.B., C.K. Wikle, R.M. Dorazio, and J.A. Royle. (2007). Hierarchical spatio-temporal matrix models for characterizing invasions. *Biometrics*, **63**: 558-567.

He, H.S., D.C. Dey, X. Fan, M.B. Hooten, J. Kabric, C.K. Wikle, and Z. Fan. (2007). Mapping pre-European settlement vegetation using a hierarchical Bayesian model and GIS. *Plant Ecology*, **191**: 85-94.

Hooten, M.B. and C.K. Wikle. (2007). Shifts in the spatio-temporal growth dynamics of shortleaf pine. *Environmental and Ecological Statistics*, **14**(3): 207-227.

Wikle, C.K. and M.B. Hooten (2006). Hierarchical Bayesian spatio-temporal models for population spread. Clark, J.S. and A. Gelfand (eds). In: *Applications of Computational Statistics in the Environmental Sciences: Hierarchical Bayes and MCMC Methods*. Oxford University Press.

Hooten, M. B., Larsen, D.R., and C.K. Wikle. (2003). Predicting the spatial distribution of ground flora on large domains using a hierarchical Bayesian model. *Landscape Ecology*, **18**: 487-502.

#### Awards/ Honors:

•	Superior Performance Award	2020
	U.S. Geological Survey	
•	Superior Performance Award	2019
	U.S. Geological Survey	
•	Wildlife Publication Award Shortlist for Authored Book	2019
	The Wildlife Society	
	Publication: Hooten, M.B., D.S. Johnson, B.T. McClintock, and J.M. Moral	les.
	(2017). Animal Movement: Statistical Models for Telemetry Data. Chapman	n and
	Hall/CRC.	
•	Superior Performance Award	2018
	U.S. Geological Survey	
•	Wildlife Publication Award Shortlist for Authored Book	2018
	The Wildlife Society	

(2017). Animal Movement: Statistical Models for Telemetry Data. Chapman and Hall/CRC. Superior Performance Award 2017 U.S. Geological Survey ASA Fellow 2017 American Statistical Association President's Invited Lecture 2016 The International Environmetrics Society Annual Meeting Superior Performance Award 2016 U.S. Geological Survey Outstanding Publication of the Year Award 2015 Colorado State University, Warner College of Natural Resources Publication: Hobbs, N.T. and M.B. Hooten (2015). Bayesian Models: A Statistical Primer for Ecologists. Princeton University Press. Excellence in Science Award, Cooperative Research Units 2015 U.S. Geological Survey 2015 Superior Performance Award U.S. Geological Survey Superior Performance Award 2014 U.S. Geological Survey Young Investigator Award 2014 American Statistical Association, ENVR Section Superior Performance Award 2013 U.S. Geological Survey Superior Performance Award 2012 U.S. Geological Survey Superior Performance Award 2011 U.S. Geological Survey Researcher of the Year Award 2010 USU-Department of Mathematics and Statistics Researcher of the Year Award 2009 USU-Department of Mathematics and Statistics

Publication: Hooten, M.B., D.S. Johnson, B.T. McClintock, and J.M. Morales.

# **Editorial Experience:**

- Associate Editor: Biometrics (2020-)
  - Associate Editor: Environmetrics (2014-)
  - Associate Editor: Annals of Applied Statistics (2011-)
  - <u>Associate Editor:</u> Journal of Agricultural, Biological, and Environmental Statistics (2012-13, 2017-)
  - <u>Guest Editor:</u> Special Issue in Journal of Agricultural, Biological, and Environmental Statistics (2016-17)
  - <u>Guest Editor:</u> Special Issue in Journal of Agricultural, Biological, and Environmental Statistics (2013-14)
  - <u>Subject Matter Editor:</u> Ecological Applications (2018)

# Teaching Experience:

#### Workshops and Short Courses

Bayesian Statistical Inference and Practice (CPW), 2 days

2020

<ul> <li>R Spatial Data and Analysis (CSU), 1 day</li> <li>Animal Movement Modeling Workshop (US-IALE), 1 day</li> <li>Statistical Decision Theory (ASA Alaska Chapter Meeting)</li> <li>R Workshop (KSU), 1 day</li> <li>Animal Movement Modeling Workshop (ISEC), 1 day</li> <li>R Workshop (KSU), 1 day</li> <li>Spatio-Temporal Statistical Models in Practice (WNAR, anticipated), 1/2 day</li> <li>R Workshop for Wildlife Biologists (CSU-CCFWRU), 1 day</li> <li>Building Capacity in Bayesian Modeling for Ecologists (NSF), 10 days</li> <li>R Workshop for Wildlife Biologists (TWS-CMPS), 1 day</li> <li>Bayesian Decision Theory and Model Selection (ISEC), 1 day</li> <li>R Workshop (CSU-CCFWRU), 1 day</li> <li>Building Capacity in Bayesian Modeling for Ecologists (NSF), 10 days</li> <li>Parallel Computing for Ecologists and Evol. Biologists (CSU-CU), 1 day</li> <li>Building Capacity in Bayesian Modeling for Ecologists (NSF), 10 days</li> <li>R Workshop (CSU-CCFWRU), 1 day</li> <li>Building Capacity in Bayesian Modeling for Ecologists (NSF), 10 days</li> <li>R Workshop for Fisheries Biologists (AFS-Western), 1 day</li> <li>R Workshop for Fisheries Biologists (USU - UCFWRU), 5 days</li> <li>R Short Course (CSU-CCFWRU), 1 day</li> <li>Bayesian Methods for Landscape Ecologists (US-IALE), 1 day</li> </ul>	2020 2019 2019 2018 2018 2017 2017 2017 2016 2016 2016 2015 2015 2015 2015 2013 2013 2012 2012 2011 2009
The University of Texas at Austin, Dept. of SDS, Austin, TX.  Bayesian Statistical Methods (SDS 384-7: Spring 2022)	2021-
<ul> <li>Colorado State University, Dept. of FWCB, Fort Collins, CO.</li> <li>Hierarchical Models in Ecology (FW 680, Fall 2011; FW/STAT 673, Fall 20 2017, 2019)</li> <li>Fish, Wildlife, and Conservation Biology Graduate Faculty Seminar (FW 692 Readings on Bayesian Analysis of Ecological Models and Data (ECOL 592, Independent Study, Wildlife Biology (FW 495, Fall 2014)</li> <li>Guest Lectures: STAT 501 (Fall 2011-2019), STAT 192 (Spring 2012-2015, FW 696 (Fall 2018-2019)</li> </ul>	2, Spr. 2016) Fall 2011)
<ul> <li>Utah State University, Dept. of Mathematics and Statistics, Logan, UT.</li> <li>Applied Spatial Statistics (STAT 5410/6410, Fall 2006 - 2010)</li> <li>Statistics for Scientists (STAT 3000, Spring 2007, 2009, Fall 2007, 2008)</li> <li>Scientific Statistical Modeling: Directed Readings (STAT 6950, Spring 2007</li> <li>Bayesian Statistics (STAT 6740, Spring 2008, 2010)</li> <li>Linear Regression and Time-Series (STAT 5100, Fall 2009 - 2010)</li> </ul>	2006-10
<ul> <li>University of Missouri, Statistics Dept., Columbia, MO.</li> <li>Graduate Instructor</li> <li>Statistical Methods for Agriculture Graduate Students (STAT 207)</li> <li>Probability and Statistics for Business Students (STAT 150)</li> <li>Graduate Lecturer</li> <li>Data Analysis for Graduate Students in Statistics (STAT 414)</li> </ul>	2002-04
University of Missouri, Forestry Dept., Columbia, MO. Graduate Lecturer  • Biometrics  • Geographic Information Systems  • Photogrammetry  • Remote Sensing	1999-01

## **Post-Doctoral Fellows (Current):**

•	Xinyi Lu, Post-doctoral Fellow	2021-
•	Clint Leach, Post-doctoral Fellow	2020-

### **Post-Doctoral Fellows (Former):**

•	Ann Raiho, Post-doctoral Fellow	2019-2021
•	Henry Scharf, Post-doctoral Fellow	2018-2019
•	Perry Williams, Post-doctoral Fellow	2016-2018
•	Brian Gerber, Post-doctoral Fellow	2016-2017
•	John Tipton, Post-doctoral Fellow	2016-2017
•	Kristin Broms, Post-doctoral Fellow	2013-2016
•	Trevor Hefley, Post-doctoral Fellow	2015-2016
•	Viviana Ruiz-Gutierrez, Post-doctoral Fellow	2013-2014
•	Tabitha Graves, Smith Post-doctoral Fellow	2012-2014

## **Graduate Students (Current):**

- Hanna McCaslin (CSU, PhD-Ecology), Co-Advisor (w/ Kyle Horton).
- Connie Okasaki (UW, PhD-Ecology), Com. Member.
- Michael Schwob (UT-Austin, PhD-Statistics), Advisor.
- Justin Van Ee (CSU, PhD-Statistics), Co-Advisor (w/ Matt Koslovsky).
- George Valentine (CSU, MS-Ecology), Co-Advisor (w/ Yoichiro Kanno).
- Wilson Wright (CSU, PhD-Statistics), Co-Advisor (w/ Dan Cooley).

### **Graduate Students (Graduated):**

•	Xinyi Lu (CSU, PhD-Statistics), Advisor.	2021
•	David Clancy (CSU, MS-Statistics), Advisor.	2019
•	Henry Scharf (CSU, PhD-Statistics), Advisor.	2017
•	Frances Buderman (CSU, PhD-Wildlife), Advisor.	2017
•	Brian Brost (CSU, PhD-Ecology), Advisor.	2016
•	John Tipton (CSU, PhD-Statistics), Co-Advisor (w/ Jean Opsomer).	2016
•	Perry Williams (CSU, MS-Statistics), Advisor.	2015
•	Shannon Kay (CSU, MS-Statistics), Advisor.	2015
•	Alison Cartwright (CSU, MS-Statistics), Co-Advisor (w/ Jean Opsomer).	2013
•	Ephraim M. Hanks (CSU, PhD-Statistics), Advisor.	2013
•	Beth Ross (USU, PhD-Wildland Resources), Co-Advisor (w/ Dave Koons).	2013
•	Martha Garlick (USU, PhD-App. Math), Co-Advisor (w/ Jim Powell).	2012
•	Beth Ross (USU, MS-Statistics), Advisor.	2012
•	Xiao Xiao (USU, MS-Statistics), Advisor.	2011
•	Glenda Yenni (USU, MS-Statistics), Advisor.	2011
•	Jess Anderson (USU, MS-Statistics), Advisor.	2011
•	Mark Schmelter (USU, MS-Statistics), Advisor.	2011
•	Ephraim M. Hanks (USU, MS-Statistics), Advisor.	2010
•	Amanda R. Cangelosi (USU, MS-Statistics), Advisor.	2008
•	Darl D. Flake (USU, MS-Statistics), Advisor.	2008
•	Lachlan Griffin (QUT, MS-Statistics), Ext. Examiner	2021
•	Abigail Feuka (CSU, MS-Wildlife Biology), Com. Member.	2021
•	Toryn Schafer (MU, PhD-Statistics), Com. Member.	2020
•	Francisco Peralta (Univ. of Cape Town, PhD-Statistical Ecology), External Examiner.	2020
•	Ghulam Samad (CSU, PhD-Ecology), Com. Member.	2020
•	Clint Leach (CSU, PhD-Biology), Com. Member.	2019
•	Kyle Christianson (CSU, PhD-FWCB), Com. Member.	2019
•	Shawna Zimmerman (CSU, PhD-Ecology), Com. Member.	2018

•	Richard Glennie (Univ. of St. Andrews, Statistics), External Examiner.	2018
•	Clint Leach (CSU, MS-Statistics), Com. Member.	2017
•	Alison Ketz (CSU, PhD-Ecology), Com. Member.	2017
•	Yang Liu (UBC, PhD-Statistics), External Examiner.	2017
•	Zachary Weller (CSU, PhD-Statistics), Com. Member.	2017
•	Katy Warner (CSU, PhD-FWCB), Com. Member.	2016
•	Perry Williams (CSU, PhD-FWCB), Com. Member.	2015
•	Brian Gerber (CSU, PhD-FWCB), Com. Member.	2015
•	Kevin Blecha (CSU, MS-Ecology), Com. Member.	2015
•	Joe Northrup (CSU, PhD-Wildlife), Com. Member.	2015
•	Christian Roy (Univ. Laval, Canada, PhD-Ecology), External Examiner.	2015
•	Shane Siers (CSU, PhD-Ecology), Com. Member.	2014
•	Xiao Xiao (USU, PhD-Biology), Com. Member.	2014
•	Ann Raiho (CSU, MS-Ecology), Com. Member.	2014
•	Eric Gardunio (CSU, MS-FWCB), Com. Member.	2014
•	Glenda Yenni (USU, PhD-Biology), Com. Member.	2013
•	Aldo Compagnoni (USU, PhD-Wildland Resources), Com. Member.	2013
•	Mark Schmelter (USU, PhD-Engineering), Com. Member	2013
•	Christy Meredith (USU, PhD-Wildland Resources), Com. Member.	2012
•	Andrew Rayburn (USU, PhD-Wildland Resources), Com. Member.	2011
•	John Lowry (USU, PhD-Wildland Resources), Com. Member.	2010
•	Peter Sherick (USU, MS-Statistics), Com. Member.	2010
•	Audrey Smith (USU, MS-Mathematics), Com. Member.	2010
•	Tammy L. Wilson (USU, PhD-Wildland Resources), Com. Member.	2010
•	Amanda Bakian (USU, MS-Statistics), Com. Member.	2008
•	Randy Larsen (USU, PhD-Wildland Resources), Com. Member.	2008

## **Employees (Former):**

•	Michael Schwob, Statistical Technician	2020
•	Christopher Peck, Research Associate	2017-2018
•	Jonathan Lewis, Research Associate	2015-2016
•	Joseph Halseth, Research Associate	2013-2015