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 	
	Associate Professor	2013-2018
	 Department of Fish, Wildlife, and Conservation Biology Department of Statistics 	
	Assistant Professor	2010-2013
	 Department of Fish, Wildlife, and Conservation Biology Department of Statistics 	
	 Faculty Affiliate, Graduate Degree Program in Ecology 	2010-
	 U.S. GEOLOGICAL SURVEY, Fort Collins, CO Assistant Unit Leader Colorado Cooperative Fish and Wildlife Research Unit 	2010-2021
	 UTAH STATE UNIVERSITY, Logan, UT Assistant Professor of Statistics, Department of Mathematics and Statistic Adjunct Faculty, Department of Wildland Resources Faculty Associate, Ecology Center 	2006-2010 cs
Education:	UNIVERSITY OF MISSOURI, Columbia, MO Ph.D. Statistics Advisor: Christopher K. Wikle Dissertation Topic: Hierarchical spatio-temporal models for ecological process	2006 sses
	 UNIVERSITY OF MISSOURI, Columbia, MO M.S. Forest Ecology Advisor: David R. Larsen Thesis Topic: Modeling the spatial distribution of ground flora 	2001
	 KANSAS STATE UNIVERSITY, Manhattan, KS B.S. Natural Resource Management Advisor: Mark Morgan Minor in Wildlife Biology 	1999

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 <u>underlined</u>)

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

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

<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>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*.

Banks, D.L. and M.B. Hooten. (In Press). Statistical challenges in agent-based modeling. *The American Statistician*.

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 <u>M.R. Schwob</u>. (2020). Statistical implementations of agent-based demographic models. *International Statistical Review*, **88**: 441-461.

Brost, B.M., 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.
- Gerber, B.D., M.B. Hooten, C.P. Peck, 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.
- Williams, P.J., W.L. Kendall, and M.B. Hooten. (2019). Selecting ecological models using multi-objective optimization. *Ecological Modelling*, **404**: 21-26.
- Nolan, C., J. Tipton, R.K. Booth, M.B. Hooten, and S.T. Jackson. (2019). Comparing and improving methods for reconstructing peatland water table depth from testate amoebae. *The Holocene*, **29**: 1350-1361.
- Hooten, M.B., J.M. Ver Hoef, and E.M. Hanks. (2019). Simultaneous autoregressive (SAR) model. *Wiley StatsRef: Statistics Reference Online*.
- Scharf, H.R., 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.
- Hooten, M.B., <u>H.J. Scharf</u>, and J.M. Morales. (2019). Running on empty: Recharge dynamics from animal movement data. *Ecology Letters*, **22**: 377-389.
- Dietze, M., A. Fox, L. Beck-Johnson, J.L. Betancourt, M.B. Hooten, C. Jarnevitch, T. Kiett, M.

- Kenney, C. Laney, L. Larsen, H. Loescher, C. Lunch, B. Pijanowski, J. Randerson, E. Reid, <u>A. Tredennick</u>, R. Vargas, K. Weathers, and E. White. (2018). Iterative near-term ecological forecasting: Needs, opportunities, and challenges. *Proceedings of the National Academy of Sciences*, **115**: 1424-1432
- <u>Scharf, H.</u>, M.B. Hooten, D.S. Johnson, and J. Durban. (2018). Process convolution approaches for modeling interacting trajectories. *Environmetrics*, **29**: e2487.
- <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.
- Conn, P.B., D.S. Johnson, <u>P.J. Williams</u>, S.R. Melin, and M.B. Hooten. (2018). A guide to Bayesian model checking for ecologists. *Ecological Monographs*, **88**: 526-542.
- Hooten, M.B., <u>H.R. Scharf</u>, <u>T.J. Hefley</u>, A. Pearse, and M. Weegman. (2018). Animal movement models for migratory individuals and groups. *Methods in Ecology and Evolution*, **9**: 1692-1705.
- Pejchar, L., <u>T. Gallo</u>, M.B. Hooten, and G. Daily. (2018). Predicting effects of large-scale reforestation on native and exotic birds. *Diversity and Distributions*, **24**: 811-819.
- 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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- 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.
- <u>Williams, P.J.,</u> M.B. Hooten, J.N. Womble, and M.R. Bower. (2017). Estimating occupancy and abundance using aerial images with imperfect detection. *Methods in Ecology and Evolution*, **8**: 1679-1689.
- <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.
- Hooten, M.B., R. King, and R. Langrock. (2017). Guest editor's introduction to the special issue on "Animal Movement Modeling." *Journal of Agricultural, Biological, and Environmental Statistics*, **22**: 224-231.
- <u>Hanks, E.M.</u>, 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.
- <u>Roberts, J.J.</u>, 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.
- Williams, P.J., 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*,

- <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>, <u>B.M.</u>, 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.
- Northrup, J.M., C.R. Anderson, M.B. Hooten, and G. Wittemyer. (2016). Movement reveals scale-dependence in habitat selection of a large ungulate. *Ecological Applications*, **26**: 2746-2757.
- Lepak, J.M., M.B. Hooten, C.A. Eagles-Smith, M.A. Lutz, M.T. Tate, J.T. Ackerman, J.J. Willacker Jr., D.C. Evers, J. Davis, C.F. Pritz, J.G. Wiener. (2016). Assessing mercury concentrations in fish across western Canada and the United States: potential health risks to fish and humans. *Science of the Total Environment*, **571**: 342-354.
- Scharf, H.R., M.B. Hooten, B.K. Fosdick, D.S. Johnson, J.M. London, and J.W. Durban. (2016). Dynamic social networks based on movement. *Annals of Applied Statistics*, **10**: 2182-2202. (ASA ENVR Student Paper Award, 2016).
- <u>Tredennick, A.T.,</u> M.B. Hooten, C.L. Aldridge, C.G. Homer, A. Kleinhesselink, and P.B. Adler. (2016). Forecasting climate change impacts on plant populations over large spatial extents. *Ecosphere*, 7: e01525.
- <u>Hefley, T.J.</u>, M.B. Hooten, J.M. Drake, R.E. Russell, and D.P. Walsh. (2016). When can the cause of a population decline be determined? *Ecology Letters*, **19**: 1353-1362
- Williams, P.J. 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.
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- <u>Hanks, E.M.</u>, M.B. Hooten, S.A. Knick, S.J. Oyler-McCance, J.A. Ficke, T.B. Cross, and M.K. Schwartz. (2016). Latent spatial models and sampling design for landscape genetics. *Annals of Applied Statistics*, **10**: 1041-1062.
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- <u>Buderman, F.M.</u>, M.B. Hooten, J.S. Ivan, and T.M. Shenk. (2016). A functional model for characterizing long distance movement behavior. *Methods in Ecology and Evolution*, **7**: 264-273.
- 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.
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- <u>Brost, B.M.</u>, M.B. Hooten, <u>E.M. Hanks</u>, and R.J. Small. (2015). Animal movement constraints improve resource selection inference in the presence of telemetry error. *Ecology*, **96**: 2590-2597.
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- <u>Gerber, B.D.</u>, W.L. Kendall, M.B. Hooten, J.A. Dubovsky, and R.C. Drewien. (2015). Optimal population prediction of sandhill crane recruitment based on climate-mediated habitat limitations. *Journal of Animal Ecology*, **84**: 1299-1310.
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- <u>Odei, J.B.</u>, J. Symanzik, and M.B. Hooten. (2014). A Bayesian hierarchical model for forecasting intermountain snow dynamics. *Environmetrics*, **25**: 324-340.
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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.

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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	
	(2017). Animal Movement: Statistical Models for Telemetry Data. Chapmar	n and
	Hall/CRC.	
•	Superior Performance Award	2018
	U.S. Geological Survey	
•	Wildlife Publication Award Shortlist for Authored Book	2018
	The Wildlife Society	
	Publication: Hooten, M.B., D.S. Johnson, B.T. McClintock, and J.M. Moral	
	(2017). Animal Movement: Statistical Models for Telemetry Data. Chapmar	n 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 Sta	atistical
	Primer for Ecologists. Princeton University Press.	
•	Excellence in Science Award, Cooperative Research Units	2015
	U.S. Geological Survey	
•	Superior Performance Award	2015
	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	

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)
- Subject Matter Editor: Ecological Applications (2018)

Teaching Experience:

Workshops and Short Courses

orks	nops and Short Courses	
•	Bayesian Statistical Inference and Practice (CPW), 2 days	2020
•	R Spatial Data and Analysis (CSU), 1 day	2020
•	Animal Movement Modeling Workshop (US-IALE), 1 day	2019
•	Statistical Decision Theory (ASA Alaska Chapter Meeting)	2019
•	R Workshop (KSU), 1 day	2018
•	Animal Movement Modeling Workshop (ISEC), 1 day	2018
•	R Workshop (KSU), 1 day	2017
•	Spatio-Temporal Statistical Models in Practice (WNAR, anticipated), 1/2 day	2017
•	R Workshop for Wildlife Biologists (CSU-CCFWRU), 1 day	2017
•	Building Capacity in Bayesian Modeling for Ecologists (NSF), 10 days	2016
•	R Workshop for Wildlife Biologists (TWS-CMPS), 1 day	2016
•	Bayesian Decision Theory and Model Selection (ISEC), 1 day	2016
•	R Workshop (CSU-CCFWRU), 1 day	2015
•	Building Capacity in Bayesian Modeling for Ecologists (NSF), 10 days	2015
•	Parallel Computing for Ecologists and Evol. Biologists (CSU-CU), 1 day	2015
•	Building Capacity in Bayesian Modeling for Ecologists (NSF), 10 days	2014
•	R Workshop (CSU-CCFWRU), 1 day	2013
•	Building Capacity in Bayesian Modeling for Ecologists (NSF), 10 days	2013
•	Spatial Statistics using R Workshop (TWS), 1 day	2012
•	R Workshop for Fisheries Biologists (AFS-Western), 1 day	2012
•	Bayesian Models for Ecologists (USU - UCFWRU), 5 days	2012
•	R Short Course (CSU-CCFWRU), 1 day	2011
•	Bayesian Methods for Landscape Ecologists (US-IALE), 1 day	2009

The University of Texas at Austin, Dept. of SDS, Austin, TX.

Bayesian Statistical Methods (SDS 384-7: Spring 2022)

2021-

Colorado State University, Dept. of FWCB, Fort Collins, CO.

2011-20

- Hierarchical Models in Ecology (FW 680, Fall 2011; FW/STAT 673, Fall 2013, 2015, 2017, 2019)
- Fish, Wildlife, and Conservation Biology Graduate Faculty Seminar (FW 692, Spr. 2016)
- Readings on Bayesian Analysis of Ecological Models and Data (ECOL 592, Fall 2011)
- Independent Study, Wildlife Biology (FW 495, Fall 2014)
- Guest Lectures: STAT 501 (Fall 2011-2019), STAT 192 (Spring 2012-2015, Fall 2019), FW 696 (Fall 2018-2019)

Utah State University, Dept. of Mathematics and Statistics, Logan, UT.

2006-10

- Applied Spatial Statistics (STAT 5410/6410, Fall 2006 2010)
- Statistics for Scientists (STAT 3000, Spring 2007, 2009, Fall 2007, 2008)
- Scientific Statistical Modeling: Directed Readings (STAT 6950, Spring 2007)
- Bayesian Statistics (STAT 6740, Spring 2008, 2010)
- Linear Regression and Time-Series (STAT 5100, Fall 2009 2010)

University of Missouri, Statistics Dept., Columbia, MO.

2002-04

Graduate Instructor

- Statistical Methods for Agriculture Graduate Students (STAT 207)
- Probability and Statistics for Business Students (STAT 150)

Graduate Lecturer

• Data Analysis for Graduate Students in Statistics (STAT 414)

University of Missouri, Forestry Dept., Columbia, MO.

1999-01

Graduate Lecturer

- · Biometrics
- Geographic Information Systems
- Photogrammetry
- Remote Sensing

Post-Doctoral Fellows (Current):

•	Ann Raiho, Post-doctoral Fellow	2019-
•	Clint Leach, Post-doctoral Fellow	2020-

Post-Doctoral Fellows (Former):

•	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).
- Justin Van Ee (CSU, PhD-Statistics), Co-Advisor (w/ Matt Koslovsky).
- Wilson Wright (CSU, PhD-Statistics), Co-Advisor (w/ Dan Cooley).
- Abigail Feuka (CSU, PhD-Ecology), Co-Advisor (w/ Larissa Bailey).

- George Valentine (CSU, MS-Ecology), Co-Advisor (w/ Yoichiro Kanno).
- Connie Okasaki (UW, PhD-Ecology), Com. Member.

Graduate Students (Graduated):

	W. I. (GOV PLP G. I.I.)	2021
•	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.	2017
	Perry Williams (CSU, PhD-FWCB), Com. Member.	2015
•	Brian Gerber (CSU, PhD-FWCB), Com. Member.	2015
•		2015
•	Kevin Blecha (CSU, MS-Ecology), Com. Member.	
•	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