# Mevin B. Hooten

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# **Work Address:**

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<b>Experience:</b>	UNIVERSITY OF TEXAS at AUSTIN, Austin, TX	
	<ul> <li>Professor</li> </ul>	2021-
	<ul> <li>Department of Statistics and Data Sciences</li> </ul>	
	COLORADO STATE UNIVERSITY, Fort Collins, CO	
	<ul> <li>Professor</li> </ul>	2018-2021
	<ul> <li>Department of Fish, Wildlife, and Conservation Biology</li> <li>Department of Statistics</li> </ul>	
	Associate Professor	2013-2018
	<ul><li>Department of Fish, Wildlife, and Conservation Biology</li><li>Department of Statistics</li></ul>	
	Assistant Professor	2010-2013
	<ul><li>Department of Fish, Wildlife, and Conservation Biology</li><li>Department of Statistics</li></ul>	
	<ul> <li>Faculty Affiliate, Graduate Degree Program in Ecology</li> </ul>	2010-
	U.S. GEOLOGICAL SURVEY, Fort Collins, CO  • Assistant Unit Leader	2010-2021
	Colorado Cooperative Fish and Wildlife Research Unit	
	<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>	2006-2010
Education:	UNIVERSITY OF MISSOURI, Columbia, MO  Ph.D. Statistics Advisor: Christopher K. Wikle  Dissertation Topic: Hierarchical spatio-temporal models for ecological process	2006 es
	UNIVERSITY OF MISSOURI, Columbia, MO	2001
	<ul> <li>M.S. Forest Ecology Advisor: David R. Larsen</li> <li>Thesis Topic: Modeling the spatial distribution of ground flora</li> </ul>	
	<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>	1999

#### **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 <u>underlined</u>)

Wenger, S.J., E. Stowe, K. Gido, M. Freeman, Y. Kanno, N. Franssen, J.D. Olden, L. Poff, A. Walters, P. Bumpers, M. Mims, M.B. Hooten, and <u>X. Lu</u>. (In Press). Simple statistical models can be sufficient for testing hypotheses with population time series data. *Ecology and Evolution*.

Wright, W.J., P.N. Neitlich, A.E. Shiel, and M.B. Hooten. (In Press). Mechanistic spatial models for heavy metal pollution. *Environmetrics*.

<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., 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>Scharf, H.R., X. Lu, P.J. Williams</u>, and M.B. Hooten. (2022). Constructing flexible, identifiable, and interpretable statistical models for binary data. *International Statistical Review*, **90**: 328-345.

<u>Van Ee, J.J.</u>, J.S. Ivan, and M.B. Hooten. (2022). Community confounding in joint species distribution models. *Scientific Reports*, **12**: 12235.

<u>Schafer, T.L.J.</u>, C.K. Wikle, and M.B. Hooten. (2022). Bayesian inverse reinforcement learning for collective animal movement. *Annals of Applied Statistics*, **16**: 999-1013.

Zimmerman, S., C. Aldridge, S. Oyler-McCance, and M.B. Hooten. (2022). Scale-dependent influence of the sagebrush community on genetic connectivity of the sagebrush obligate Gunnison sage-grouse. *Molecular Ecology*, **31**: 3267-3285.

Johnson, D.S., B.M. Brost, and M.B. Hooten. (2022). Greater than the sum of its parts: Computationally flexible Bayesian hierarchical modeling. *Journal of Agricultural, Biological, and Environmental Statistics*, **27**: 382-400.

<u>Kim, S.,</u> M.B. Hooten, T.L. Darden, and Y. Kanno. (2022). Linking male reproductive success to effort within and among nests in a co-breeding stream fish. Ethology, **128**: 489-498.

<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*, **28**: 793-809.

<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.

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.
- <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.</u>, W.L. Kendall, and M.B. Hooten. (2019). Selecting ecological models using multiobjective 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*.
- <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., T.L.</u> 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</u>, F.E., 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.
- Williams, P.J., M.B. Hooten, J.N. Womble, G.G. Esslinger, and M.R. Bower. (2018). Monitoring 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.
- <u>Williams, P.J., M.B.</u> 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.,</u> P. Budy, M.B. Hooten, and M.O. Prates. (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., M.B.</u> 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, A.J.,</u> 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
- <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.
- Broms, K.M., M.B. Hooten, and R.M. Fitzpatrick. (2016). Model selection and assessment for multi-species occupancy models. *Ecology*, **97**: 194-207.
- Hooten, M.B., <u>F.E. Buderman</u>, <u>B.M. Brost</u>, E.M. Hanks, and J.S. Ivan. (2016). Hierarchical animal movement models for population-level inference. *Environmetrics*, **27**: 322-333.
- <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.
- <u>Hefley, T.J.</u> and M.B. Hooten. (2016). Hierarchical species distribution models. *Current Landscape Ecology Reports*: 1-11.
- Wikle, C.K., W.B. Leeds, and M.B. Hooten. (2016). Models for ecological models: Ocean primary productivity. *Chance*, **29** (2): 23.
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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.
- <u>Raiho, A., M.B.</u> 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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- Hobbs, N.T., <u>C. Geremia</u>, J. Treanor, R. Wallen, P.J. White, M.B. Hooten, and J.C. Rhyan. (2015). State-space modeling to support adaptive management of brucellosis in the Yellowstone bison population. *Ecological Monographs*, **85**: 525-556.
- <u>Hefley, T.J.</u> and M.B. Hooten. (2015). On the existence of maximum likelihood estimates for presence-only data. *Methods in Ecology and Evolution*, **6**: 648-655.
- <u>Schmelter, M.L.</u>, P. Wilcock, M.B. Hooten, D.K. Stevens. (2015). Multi-fraction Bayesian sediment transport model. *Journal of Marine Science and Engineering*, **3**: 1066-1092.
- <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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- Conn, P.B., Johnson, D.S., J.M. Ver Hoef, M.B. Hooten, J.M. London, and P.L. Boveng. (2015). Using spatio-temporal models to estimate animal abundance and infer ecological dynamics from survey counts. *Ecological Monographs*, **85**: 235-252.
- <u>Hanks</u>, E.M., E. Schliep, M.B. Hooten, and J.A. Hoeting. (2015). Restricted spatial regression in practice: Geostatistical models, confounding, and robustness under model misspecification. *Environmetrics*, **26**: 243-254.
- Hooten, M.B. and N.T. Hobbs. (2015). A guide to Bayesian model selection for ecologists. *Ecological Monographs*, **85**: 3-28.
- Wikle, C.K. and M.B. Hooten (2015). Hierarchical agent-based spatio-temporal dynamic models for discrete valued data. Davis, R., S. Holan, R. Lund, and N. Ravishanker (eds). In: Handbook of Discrete-Valued Time Series. Chapman & Hall/CRC.
- Broms, K.M., M.B. Hooten, and R. Fitzpatrick. (2015). Accounting for imperfect detection in Hill numbers for biodiversity studies. *Methods in Ecology and Evolution*, **6**: 99-108.
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- Hooten, M.B. and C.K. Wikle. (2010). Statistical agent-based models for discrete spatio-temporal systems. *Journal of the American Statistical Association*, **105**: 236-248.
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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.
- Hooten, M. B. and C.K. Wikle. (2008). A hierarchical Bayesian non-linear spatio-temporal model for the spread of invasive species with application to the Eurasian Collared-Dove. *Environmental and Ecological Statistics*, **15**(1): 59-70. DOI: 10.1007/s10651-007-0040-1.
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- 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:

•	Distinguished Achievement Award	2022
	American Statistical Association, Section on Statistics and the Environment Superior Performance Award	2020
•	U.S. Geological Survey	2020
	Superior Performance Award	2019
	U.S. Geological Survey	2017
	Wildlife Publication Award Shortlist for Authored Book	2019
	The Wildlife Society	_017
	Publication: Hooten, M.B., D.S. Johnson, B.T. McClintock, and J.M. Mora	les.
	(2017). Animal Movement: Statistical Models for Telemetry Data. Chapma	
	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. Mora	
	(2017). Animal Movement: Statistical Models for Telemetry Data. Chapma	n and
	Hall/CRC.	2015
•	Superior Performance Award	2017
	U.S. Geological Survey	2017
•	ASA Fellow	2017
_	American Statistical Association President's Invited Lecture	2016
•	The International Environmetrics Society Annual Meeting	2016
	Superior Performance Award	2016
-	U.S. Geological Survey	2010
	Outstanding Publication of the Year Award	2015
	Colorado State University, Warner College of Natural Resources	2015
	Publication: Hobbs, N.T. and M.B. Hooten (2015). Bayesian Models: A St	tatistical
	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	2012
•	Superior Performance Award	2013
	U.S. Geological Survey	2012
-	Superior Performance Award U.S. Geological Survey	2012
	Superior Performance Award	2011
_	U.S. Geological Survey	2011
	Researcher of the Year Award	2010
	responding of the Total Final Control of the Contro	2010

## USU-Department of Mathematics and Statistics

Researcher of the Year Award

USU-Department of Mathematics and Statistics

# **Editorial Experience:**

- Associate Editor: Biometrics (2020-)
- Associate Editor: Environmetrics (2014-)
- <u>Associate Editor:</u> Journal of Agricultural, Biological, and Environmental Statistics (2012-13, 2017-)
- Associate Editor: Annals of Applied Statistics (2011-2021)
- <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	
<ul> <li>Building Capacity in Bayesian Modeling for Ecologists (NSF), 10 days</li> </ul>	2022
<ul> <li>Bayesian Statistical Inference and Practice (CPW), 2 days</li> </ul>	2020
<ul> <li>R Spatial Data and Analysis (CSU), 1 day</li> </ul>	2020
<ul> <li>Animal Movement Modeling Workshop (US-IALE), 1 day</li> </ul>	2019
<ul> <li>Statistical Decision Theory (ASA Alaska Chapter Meeting)</li> </ul>	2019
R Workshop (KSU), 1 day	2018
<ul> <li>Animal Movement Modeling Workshop (ISEC), 1 day</li> </ul>	2018
<ul><li>R Workshop (KSU), 1 day</li></ul>	2017
<ul> <li>Spatio-Temporal Statistical Models in Practice (WNAR, anticipated), 1/2 day</li> </ul>	2017
<ul> <li>R Workshop for Wildlife Biologists (CSU-CCFWRU), 1 day</li> </ul>	2017
<ul> <li>Building Capacity in Bayesian Modeling for Ecologists (NSF), 10 days</li> </ul>	2016
<ul> <li>R Workshop for Wildlife Biologists (TWS-CMPS), 1 day</li> </ul>	2016
<ul> <li>Bayesian Decision Theory and Model Selection (ISEC), 1 day</li> </ul>	2016
<ul> <li>R Workshop (CSU-CCFWRU), 1 day</li> </ul>	2015
<ul> <li>Building Capacity in Bayesian Modeling for Ecologists (NSF), 10 days</li> </ul>	2015
<ul> <li>Parallel Computing for Ecologists and Evol. Biologists (CSU-CU), 1 day</li> </ul>	2015
<ul> <li>Building Capacity in Bayesian Modeling for Ecologists (NSF), 10 days</li> </ul>	2014
<ul> <li>R Workshop (CSU-CCFWRU), 1 day</li> </ul>	2013
<ul> <li>Building Capacity in Bayesian Modeling for Ecologists (NSF), 10 days</li> </ul>	2013
<ul> <li>Spatial Statistics using R Workshop (TWS), 1 day</li> </ul>	2012
<ul> <li>R Workshop for Fisheries Biologists (AFS-Western), 1 day</li> </ul>	2012
<ul> <li>Bayesian Models for Ecologists (USU - UCFWRU), 5 days</li> </ul>	2012
<ul> <li>R Short Course (CSU-CCFWRU), 1 day</li> </ul>	2011

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

2021-

2009

2009

- Bayesian Statistical Methods (SDS 384-7: Spring 2022)
- Elements of Statistics (SDS 320E: Fall 2022)

## 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)

Bayesian Methods for Landscape Ecologists (US-IALE), 1 day

- 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):**

•	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):**

- Brandon Carter (UT-Austin, PhD-Statistics), Com. Member.
- 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), <b>Co-Advisor</b> (w/ Jean Opsomer).	2016
•	Perry Williams (CSU, MS-Statistics), Advisor.	2015
•	Shannon Kay (CSU, MS-Statistics), Advisor.	2015
•	Alison Cartwright (CSU, MS-Statistics), <b>Co-Advisor</b> (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. Eric Gardunio (CSU, MS-FWCB), Com. Member.	2014 2014
	Glenda Yenni (USU, PhD-Biology), Com. Member.	2014
•	Aldo Compagnoni (USU, PhD-Wildland Resources), Com. Member.	2013
		2013
	Mark Schmelter (USU, PhD-Engineering), Com. Member	2013
•	Christy Meredith (USU, PhD-Wildland Resources), Com. Member. Andrew Rayburn (USU, PhD-Wildland Resources), Com. Member.	2012
•	John Lowry (USU, PhD-Wildland Resources), Com. Member.	2011
•	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.	2010
	Randy Larsen (USU, PhD-Wildland Resources), Com. Member.	2008
	Randy Larson (OSO, 1 IID-Wildland Resources), Colli. Mellioti.	2000

# **Employees (Former):**

• Michael Schwob, Statistical Technician

•	Christopher Peck, Research Associate	2017-2018
•	Jonathan Lewis, Research Associate	2015-2016
•	Joseph Halseth, Research Associate	2013-2015