Mevin B. Hooten

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Experience:	 UNIVERSITY OF TEXAS at AUSTIN, Austin, TX Professor Department of Statistics and Data Sciences 	2021-
	 COLORADO STATE UNIVERSITY, Fort Collins, CO Professor Department of Fish, Wildlife, and Conservation Biology Department of Statistics 	2018-2021
	 Associate Professor Department of Fish, Wildlife, and Conservation Biology Department of Statistics 	2013-2018
	 Assistant Professor Department of Fish, Wildlife, and Conservation Biology Department of Statistics 	2010-2013
	Faculty Affiliate	2011-2021
	 Graduate Degree Program in Ecology 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 Statistics Adjunct Faculty, Department of Wildland Resources Faculty Associate, Ecology Center 	2006-2010
Education:	 UNIVERSITY OF MISSOURI, Columbia, MO Ph.D. Statistics Advisor: Christopher K. Wikle Dissertation Topic: Hierarchical spatio-temporal models for ecological proce 	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

Major Honors:

- Elected Fellow of the American Statistical Association (2017)
- Distinguished Achievement Award, American Statistical Association, ENVR Section (2022)
- Early Investigator Award, American Statistical Association, ENVR Section (2014)

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>Lu, X.</u>, A. Kaplan, Y. Kanno, <u>G. Valentine</u>, J. Rash, and M.B. Hooten. (In Press). Stochastic spatial stream networks for scalable inferences of riverscape processes. *Spatial Statistics*.

Wright, W.J. and M.B. Hooten. (In Press). Continuous-space occupancy models. *Biometrics*.

<u>Wright, W.J.</u> and M.B. Hooten. (In Press). Rejoinder to the discussion on "Continuous-space occupancy models." *Biometrics*.

<u>Van Ee, J.J.</u>, C.A. Hagen, D.C. Pavlacky Jr., D.A. Haukos, A.J. Lawrence, A.M. Tanner, B.A. Grisham, K.A. Fricke, L.G. Rossi, G.G. Beauprez, K.E. Kuklinski, R. Martin, M.D. Koslovsky, T.B. Rintz, and M.B. Hooten. (In Press). Melded integrated population models. *Journal of Agricultural, Biological, and Environmental Statistics*.

Koslovsky, M.D., A. Kaplan, V.A. Terranova, and M.B. Hooten. (In Press). A unified Bayesian framework for modeling measurement error in multinomial data. *Bayesian Analysis*.

Schwob, M.R., M.B. Hooten, and V. Narasimhan. (In Press). Composite dyadic models for spatio-temporal data. *Biometrics*.

<u>Lu, X.</u>, Y. Kanno, <u>G. Valentine</u>, M. Kulp, and M.B. Hooten. (In Press). Regularized latent trajectory models for spatio-temporal population dynamics. *Journal of Agricultural, Biological and Environmental Statistics*.

<u>Vahsen, M.L.</u>, T.M. Maxwell, D.M. Blumenthal, <u>D. Gamba</u>, M.J. Germino, M.B. Hooten, J.R. Lasky, E.A Leger, N. Pirtel, L.M. Porensky, S. Romero, <u>J.J. Van Ee</u>, S.M. Copeland, D.J. Ensing, P.B. Adler. (2025). Phenological sensitivity of *Bromus tectorum* genotypes depends on current and source environments. *Ecology*, **106**: e70025.

<u>Goel, N.</u>, A.M. Liebhold, C. Bertelsmeier, M.B. Hooten, K.S. Korolev, and T.H. Keitt. (2025). A mechanistic statistical approach to infer invasion characteristics of human-dispersed species with complex life cycle. *Ecological Monographs*, **95**: e70003.

Wikle, C.K., M.B. Hooten, W. Kleiber, and D.W. Nychka. (2024). Spatial statistics: Climate and the environment. *Spatial Statistics*, **63**: 100856.

<u>Valentine, G.P., X. Lu, C.A. Dolloff, C.N. Roghair, J.M. Rash, M.B. Hooten, and Y. Kanno.</u> (2024). Landscape influences on thermal sensitivity and predicted spatial variability among brook trout streams in the Southeastern USA. *River Research and Applications*, **40**: 1242-1255.

McDevitt-Gales, T., A.T. Degaetano, S. Elmendorf, J.R. Foster, H.S Ginsberg, M.B. Hooten, S. LaDeau, K.M. McClure, S. Paull, E. Posthumus, I. Rochlin, and D. Grear. (2024). Partly Cloudy

- with a Chance of Mosquitoes: Developing a macroecological approach to forecasting mosquito populations and phenology under changing climates. *Ecosphere*, **15**: e70074.
- Valle, D., N. Attias, J.A. Cullen, M.B. Hooten, A. Giroux, L. Gustavo, R. Oliveira-Santos, A.L.J. Desbiez, and R.J. Fletcher. (2024). Bridging the gap between movement data and connectivity analysis using the Time-Explicit Habitat Selection (TEHS) model. *Movement Ecology*, **12**: 19.
- <u>Leach, C.B.</u>, B. Weitzman, J. Bodkin, D. Esler, G.G. Esslinger, K.A. Kloecker, D. Monson, J.N. Womble, and M.B. Hooten. (2024). The dynamics of sea otter prey selection under population growth and expansion. *Ecosphere*, **15**: e70084.
- Hui, F., Q. Vu, and M.B. Hooten. (2024). Spatial confounding in joint species distribution models. *Methods in Ecology and Evolution*, **15**: 1906-1921.
- <u>Lu, X.</u>, Y. Kanno, <u>G. Valentine</u>, G. Rash, and M.B. Hooten. (2024). Using multi-scale spatial models of dendritic ecosystems to infer abundance of a stream salmonid. *Journal of Applied Ecology*, **61**: 1703-1715.
- Neitlich, P.N., <u>W. Wright</u>, E. Di Meglio, A.E. Shiel, C.J. Hampton-Miller, and M.B. Hooten. (2024). Mixed trends in heavy metal-enriched fugitive dust on National Park Service lands along the Red Dog Mine haul road, Alaska, 2006-2017. *PLoS One*, **19**: e0297777.
- Hooten, M.B., M.R. Schwob, and D.S. Johnson. (2024). Geostatistical capture-recapture models. *Spatial Statistics*, **59**: 100817.
- Eisaguirre, J.M., P.J. Williams, and M.B. Hooten. (2024). Rayleigh step-selection functions and connections to continuous-time mechanistic movement models. *Movement Ecology*, **12**: 14.
- <u>Valentine, G.P., X. Lu, E. Childress, C.A. Dolloff, N.P. Hitt, M.A. Kulp, B.H. Letcher, K.C. Pregler, J.M. Rash, M.B. Hooten, and Y. Kanno.</u> (2024). Spatial asynchrony and cross-scale climate interactions in populations of a coldwater stream fish. *Global Change Biology*, **30**: e17029.
- <u>Lu, X.</u>, M.B. Hooten, <u>A.M. Raiho</u>, D.K. Swanson, C.A. Roland, and S.E. Stehn. (2023). Latent trajectory models for spatio-temporal dynamics in Alaskan ecosystems. *Biometrics*, **79**: 3664-3675.
- <u>Van Ee, J., C. Hagen, D. Pavlacky, K. Fricke, M. Koslovsky, and M.B. Hooten.</u> (2023). Melding wildlife surveys to improve conservation inference. *Biometrics*, **79**: 3941-3953.
- Schwob, M.R., M.B. Hooten, <u>T. McDevitt-Gales</u>. (2023). Dynamic population models with temporal preferential sampling to infer phenology. *Journal of Agricultural, Biological, and Environmental Statistics*, **28**: 774-791.
- Lepak, J.M., B.M. Johnson, M.B. Hooten, B.A. Wolff, and A.G. Hansen. (2023). Predicting sport fish mercury contamination in heavily managed reservoirs: Implications for human and ecological health. *PLoS One.* **18**: e0285890.
- Williams, P.J., X. Lu, H.R. Scharf, and M.B. Hooten. (2023). Embracing asymmetry in nature: How to account for skewness in ecological data. *Ecological Informatics*, **75**: 102185.
- Hooten, M.B., <u>M.R. Schwob</u>, D.S. Johnson, and J.S. Ivan. (2023). Multistage hierarchical capture-recapture models. *Environmetrics*, **34**: e2799.
- Eisaguirre, J.M., P.J. Williams, X. Lu, M.L. Kissling, P.A. Schuette, B.P. Weitzman, W.S. Beatty, G.G. Esslinger, J.N. Womble, and M.B. Hooten. (2023). Informing management of recovering

- predators and their prey with ecological diffusion models. *Frontiers in Ecology and the Environment*, **21**: 479-488
- <u>Leach, C.B.</u>, B.P. Weitzman, J. Bodkin, D. Esler, G.G. Esslinger, K.A. Kloecker, D. Monson, J.N. Womble, and M.B. Hooten. (2023). Revealing the extent of sea otter impacts on bivalve prey through multi-trophic monitoring and mechanistic models. *Journal of Animal Ecology*, **92**: 1230-1243.
- Scharf, H.R., A. Raiho, S. Pugh, C.A. Roland, D.K. Swanson, S.E. Stehn, and M.B. Hooten. (2022). Multivariate Bayesian clustering using covariate-informed components with application to boreal vegetation sensitivity. *Biometrics*, **78**: 1427-1440.
- Wright, W.J., P.N. Neitlich, A.E. Shiel, and M.B. Hooten. (2022). Mechanistic spatial models for heavy metal pollution. *Environmetrics*, **33**: e2760.
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- <u>Lu, X.</u>, M.B. Hooten, A. Kaplan, J.N. Womble, and M.R. Bower. (2022). Improving wildlife population inference from aerial imagery data through entity resolution. *Journal of Agricultural, Biological, and Environmental Statistics*, **27**: 364-381.
- Scharf, H.R., X. Lu, P.J. Williams, 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.
- Schafer, T.L.J., 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, C.A. Roland, D.K. Swanson, S.E. Stehn, and M.B. Hooten.</u> (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.
- Raiho, A., 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.
- 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*.
- <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.
- 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., M.B.</u> 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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- 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.
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- <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.
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- <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.
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- <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.

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- <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.
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- <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.
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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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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
 American Statistical Association, Section on Statistics and the Environment

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Editorial Experience:

- Associate Editor: Biometrics (2020-)
- Associate Editor: Environmetrics (2014-)
- Associate Editor: Journal of Agricultural, Biological, and Environmental Statistics (2012-13,

2017-)

- Associate Editor: Annals of Applied Statistics (2011-2021)
- Guest Editor: Special Issue in Spatial Statistics (2023-24)
- <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 Building Capacity in Bayesian Modeling for Ecologists (NSF), 10 days	2024
 Building Capacity in Bayesian Modeling for Ecologists (NSF), 10 days 	2023
 Animal Movement Modeling Workshop (EURING), 1/2 day 	2023
 Building Capacity in Bayesian Modeling for Ecologists (NSF), 10 days 	2022
 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.	2021-

The University of Texas at Austin, Dept. of SDS, Austin, TX. Statistical Modeling I (SDS 383C: Fall 2023, 2024)

- Bayesian Statistical Methods (SDS 384-7: Spring 2022, 2023, 2024)
- 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)
- 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.

Applied Spatial Statistics (STAT 5410/6410, Fall 2006 - 2010)

2006-10

- 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):

•	Alex Barth, Post-doctoral Fellow (co-advised with J. Casey)	2024-2026
•	Nikunj Goel, Post-doctoral Fellow	2023-2025
•	Myungsoo Yoo, Post-doctoral Fellow	2024-2026

Post-Doctoral Fellows (Former):

•	Justin Van Ee, Post-doctoral Fellow	2023-2025
•	Clint Leach, Post-doctoral Fellow	2020-2024
•	Xinyi Lu, Post-doctoral Fellow	2021-2023
•	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):

- Brendan Allison (UT-Austin, PhD-Biology), Com. Member.
- Sean Ingram (CSU, MS-Ecology), Com. Member.
- Michael Schwob (UT-Austin, PhD-Statistics), Advisor.

Graduate Students (Graduated):

•	Wilson Wright (CSU, PhD-Statistics), Co-Advisor (w/ Dan Cooley).	2024
•	Justin Van Ee (CSU, PhD-Statistics), Co-Advisor (w/ Matt Koslovsky).	2023
•	George Valentine (CSU, MS-Ecology), Co-Advisor (w/ Yoichiro Kanno).	2023
•	Xinyi Lu (CSU, PhD-Statistics), Advisor.	2021
•	David Clancy (CSU, MS-Statistics), Advisor.	2019
•	Henry Scharf (CSU, PhD-Statistics), Advisor.	2017

	E D I (GGU NID WYING) A I I	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
•	Brandon Carter (UT-Austin, PhD-Statistics), Com. Member.	2024
•	Hanna McCaslin (CSU, PhD-Ecology), Com. Member.	2023
•	Connie Okasaki (UW, PhD-Ecology), Com. Member.	2023
•	Andrew Manderson (Univ. of Cambridge, PhD-Statistics), Ext. Examiner	2022
•	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
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•	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

Undergraduates:

•	Berkeley Ho (UT-Austin, Statistics and Data Sciences), Mentor and Research Supervisor	2024-
•	Katherine Millman (CSU, UG-Wildlife and Statistics), Honors Com. Member	2020

Employees:

•	Nicolas Calzada, Data Scientist	2024-
•	Michael Schwob, Statistical Technician	2020
•	Christopher Peck, Research Associate	2017-2018
•	Jonathan Lewis, Research Associate	2015-2016
•	Joseph Halseth, Research Associate	2013-2015