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 Department of Fish, Wildlife, and Conservation Biology Department of Statistics | , • |
| | Assistant Professor 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 | 1 |
| | UTAH STATE UNIVERSITY, Logan, UT Assistant Professor of Statistics, Department of Mathematics and Statistics Adjunct Faculty, Department of Wildland Resources Faculty Associate, Ecology Center | |
| Education: | UNIVERSITY OF MISSOURI, Columbia, MO • Ph.D. Statistics Advisor: Christopher K. Wikle • Dissertation Topic: Hierarchical spatio-temporal models for ecological processes | |
| | UNIVERSITY OF MISSOURI, Columbia, MO • M.S. Forest Ecology Advisor: David R. Larsen • Thesis Topic: Modeling the spatial distribution of ground flora | |
| | KANSAS STATE UNIVERSITY, Manhattan, KS B.S. Natural Resource Management Advisor: Mark Morgan Minor in Wildlife Biology | |

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)

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

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

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

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

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

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 <u>M.R. Schwob</u>. (2020). Statistical implementations of agent-based demographic models. *International Statistical Review*, **88**: 441-461.
- <u>Brost</u>, <u>B.M.</u>, M.B. Hooten, and R.J. Small. (2020). Model-based clustering reveals patterns in central place use of a marine top predator. *Ecosphere*, **11**: e03123.
- Hooten, M.B., X. Lu, M.J. Garlick, and J.A. Powell. (2020). Animal movement models with mechanistic selection functions. *Spatial Statistics*, **37**: 100406.
- <u>Lu, X., P.J. Williams</u>, M.B. Hooten, J.A. Powell, J.N. Womble, and M.R. Bower. (2020). Nonlinear reaction-diffusion process models improve inference for population dynamics. *Environmetrics*, **31**: e2604.
- Hooten, M.B., S. Pugh, and C.A. Roland. (2020). Geary's contiguity ratio (Geary's c). *Wiley StatsRef: Statistics Reference Online*.
- <u>Christianson, K.R.</u>, B.M. Johnson, and M.B. Hooten. (2020). Compound effects of water clarity, inflow, wind, and climate warming on mountain lake thermal regimes. *Aquatic Sciences*, **82**: 6.
- <u>Tipton, J.R.</u>, M.B. Hooten, C. Nolan, R.K. Booth, and J. McLachlan. (2019). Predicting paleoclimate from compositional data using multivariate Gaussian process inverse prediction. *Annals of Applied Statistics*, **13**: 2363-2388.
- <u>Gerber, B.D.</u>, M.B. Hooten, <u>C.P. Peck</u>, M.B. Rice, J.H. Gammonley, A.D. Apa, and A.J. Davis. (2019). Extreme site fidelity as an optimal strategy in an unpredictable and homogeneous environment. *Functional Ecology*, **33**: 1695-1707.

- <u>Williams, P.J.</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.
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- 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.
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- <u>Buderman, F.E.,</u> M.B. Hooten, M. Alldredge, E.M. Hanks, and J.S. Ivan. (2018). Time-varying predatory behavior is primary predictor of fine-scale movement of wildland-urban cougars. *Movement Ecology*, **6**: 22.
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- 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</u>, P.J., 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.
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- <u>Steger, C.</u>, B. Butt, and M.B. Hooten. (2017). Safari Science: Assessing the reliability of citizen science data for wildlife surveys. *Journal of Applied Ecology*, **54**: 2053-2062.
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- <u>Hanks, 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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- 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.
- <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
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- <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.
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- Arab, A., M.B. Hooten, and C.K. Wikle (2017). Hierarchical Spatial Models. *In: Encyclopedia of Geographical Information Science, Second Edition*. Springer.
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- <u>Hanks, E.M.</u> and M.B. Hooten. (2013). Circuit theory and model-based inference for landscape connectivity. *Journal of the American Statistical Association*, **108**: 22-33. (Best Student Paper Award at ENVR ASA 2012)
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- Hooten, M.B. (2011). The State of Spatial and Spatio-Temporal Statistical Modeling. Drew A., F. Huettman, and Y. Wiersma (eds). *In: Predictive Modeling in Landscape Ecology*. Springer.
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systems. Journal of the American Statistical Association, 105: 236-248.

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Hooten, M.B., C.K. Wikle, L.D. Carlile, R. Warner, and D. Pitts (2009). Hierarchical population models for the red-cockaded woodpecker. Rich, T.D., M. C. Arizmendi, D. Demarest and C. Thompson (eds). Tundra to Tropics: Connecting Birds, Habitats and People. Proceedings of the 4th International Partners in Flight Conference, 13-16 February 2008. McAllen, TX. University of Texas-Pan American Press. Edinburg, TX. pgs. 354-364.

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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.

Arab, A., M.B. Hooten, and C.K. Wikle (2007). Hierarchical Spatial Models. *In: Encyclopedia of Geographical Information Science*. Springer.

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

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

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

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

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

Awards/ Honors:

Distinguished Achievement Award
 American Statistical Association, Section on Statistics and the Environment

| • | 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 | es. |
| | (2017). Animal Movement: Statistical Models for Telemetry Data. Chapman | 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. Chapman | and |
| | Hall/CRC. | |
| • | Superior Performance Award | 2017 |
| | U.S. Geological Survey | |
| • | ASA Fellow | 2017 |
| | American Statistical Association | • • • • |
| • | President's Invited Lecture | 2016 |
| | The International Environmetrics Society Annual Meeting | 2016 |
| • | Superior Performance Award | 2016 |
| | U.S. Geological Survey | 2015 |
| • | Outstanding Publication of the Year Award | 2015 |
| | Colorado State University, Warner College of Natural Resources | 1 |
| | Publication: Hobbs, N.T. and M.B. Hooten (2015). Bayesian Models: A Sta | itistical |
| _ | Primer for Ecologists. Princeton University Press. | 2015 |
| • | Excellence in Science Award, Cooperative Research Units | 2015 |
| | U.S. Geological Survey Superior Performance Award | 2015 |
| • | • | 2015 |
| | U.S. Geological Survey Superior Performance Award | 2014 |
| - | U.S. Geological Survey | 2014 |
| | Young Investigator Award | 2014 |
| _ | American Statistical Association, ENVR Section | 2017 |
| | Superior Performance Award | 2013 |
| | U.S. Geological Survey | 2013 |
| | Superior Performance Award | 2012 |
| | U.S. Geological Survey | 2012 |
| | Superior Performance Award | 2011 |
| | U.S. Geological Survey | |
| | Researcher of the Year Award | 2010 |
| | USU-Department of Mathematics and Statistics | _510 |
| | Researcher of the Year Award | 2009 |
| | USU-Department of Mathematics and Statistics | _007 |

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)
- <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:

| • | 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.

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

2021-

- 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.

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

2002-04

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):

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

Graduate Students (Graduated):

| • | Xinyi Lu (CSU, PhD-Statistics), Advisor. | 2021 |
|---|---|------|
| • | David Clancy (CSU, MS-Statistics), Advisor. | 2019 |
| • | Henry Scharf (CSU, PhD-Statistics), Advisor. | 2017 |
| • | Frances Buderman (CSU, PhD-Wildlife), Advisor. | 2017 |
| • | Brian Brost (CSU, PhD-Ecology), Advisor. | 2016 |
| • | John Tipton (CSU, PhD-Statistics), Co-Advisor (w/ Jean Opsomer). | 2016 |
| • | Perry Williams (CSU, MS-Statistics), Advisor. | 2015 |
| • | Shannon Kay (CSU, MS-Statistics), Advisor. | 2015 |
| • | Alison Cartwright (CSU, MS-Statistics), Co-Advisor (w/ Jean Opsomer). | 2013 |
| • | Ephraim M. Hanks (CSU, PhD-Statistics), Advisor. | 2013 |
| • | Beth Ross (USU, PhD-Wildland Resources), Co-Advisor (w/ Dave Koons). | 2013 |
| • | Martha Garlick (USU, PhD-App. Math), Co-Advisor (w/ Jim Powell). | 2012 |
| • | Beth Ross (USU, MS-Statistics), Advisor. | 2012 |

| • | Xiao Xiao (USU, MS-Statistics), Advisor. | 2011 |
|---|---|------|
| • | Glenda Yenni (USU, MS-Statistics), Advisor. | 2011 |
| • | Jess Anderson (USU, MS-Statistics), Advisor. | 2011 |
| • | Mark Schmelter (USU, MS-Statistics), Advisor. | 2011 |
| • | Ephraim M. Hanks (USU, MS-Statistics), Advisor. | 2010 |
| • | Amanda R. Cangelosi (USU, MS-Statistics), Advisor. | 2008 |
| • | Darl D. Flake (USU, MS-Statistics), Advisor. | 2008 |
| • | Lachlan Griffin (QUT, MS-Statistics), Ext. Examiner | 2021 |
| • | Abigail Feuka (CSU, MS-Wildlife Biology), Com. Member. | 2021 |
| • | Toryn Schafer (MU, PhD-Statistics), Com. Member. | 2020 |
| • | Francisco Peralta (Univ. of Cape Town, PhD-Statistical Ecology), External Examiner. | 2020 |
| • | Ghulam Samad (CSU, PhD-Ecology), Com. Member. | 2020 |
| • | Clint Leach (CSU, PhD-Biology), Com. Member. | 2019 |
| • | Kyle Christianson (CSU, PhD-FWCB), Com. Member. | 2019 |
| • | Shawna Zimmerman (CSU, PhD-Ecology), Com. Member. | 2018 |
| • | Richard Glennie (Univ. of St. Andrews, Statistics), External Examiner. | 2018 |
| • | Clint Leach (CSU, MS-Statistics), Com. Member. | 2017 |
| • | Alison Ketz (CSU, PhD-Ecology), Com. Member. | 2017 |
| • | Yang Liu (UBC, PhD-Statistics), External Examiner. | 2017 |
| • | Zachary Weller (CSU, PhD-Statistics), Com. Member. | 2017 |
| • | Katy Warner (CSU, PhD-FWCB), Com. Member. | 2016 |
| • | Perry Williams (CSU, PhD-FWCB), Com. Member. | 2015 |
| • | Brian Gerber (CSU, PhD-FWCB), Com. Member. | 2015 |
| • | Kevin Blecha (CSU, MS-Ecology), Com. Member. | 2015 |
| • | Joe Northrup (CSU, PhD-Wildlife), Com. Member. | 2015 |
| • | Christian Roy (Univ. Laval, Canada, PhD-Ecology), External Examiner. | 2015 |
| • | Shane Siers (CSU, PhD-Ecology), Com. Member. | 2014 |
| • | Xiao Xiao (USU, PhD-Biology), Com. Member. | 2014 |
| • | Ann Raiho (CSU, MS-Ecology), Com. Member. | 2014 |
| • | Eric Gardunio (CSU, MS-FWCB), Com. Member. | 2014 |
| • | Glenda Yenni (USU, PhD-Biology), Com. Member. | 2013 |
| • | Aldo Compagnoni (USU, PhD-Wildland Resources), Com. Member. | 2013 |
| • | Mark Schmelter (USU, PhD-Engineering), Com. Member | 2013 |
| • | Christy Meredith (USU, PhD-Wildland Resources), Com. Member. | 2012 |
| • | Andrew Rayburn (USU, PhD-Wildland Resources), Com. Member. | 2011 |
| • | John Lowry (USU, PhD-Wildland Resources), Com. Member. | 2010 |
| • | Peter Sherick (USU, MS-Statistics), Com. Member. | 2010 |
| • | Audrey Smith (USU, MS-Mathematics), Com. Member. | 2010 |
| • | Tammy L. Wilson (USU, PhD-Wildland Resources), Com. Member. | 2010 |
| • | Amanda Bakian (USU, MS-Statistics), Com. Member. | 2008 |
| • | Randy Larsen (USU, PhD-Wildland Resources), Com. Member. | 2008 |

Employees (Former):

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