John Fieberg

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Curriculum Vitae
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Education

2000	Ph.D.	Biomathematics	North Carolina State University	Raleigh, NC
1996	M.S.	Biostatistics	University of North Carolina-Chapel Hill	Chapel Hill, NC
1993	B.A.	Mathematics	Westminster College	Fulton, Mo

Academic Appointments

2022–	Professor	University of Minnesota
2017–2022	Associate Professor	University of Minnesota
2013–2017	Assistant Professor	University of Minnesota
2009–2013	Adjunct Assistant Professor	University of Minnesota

External Associations and Visiting Positions

2024–	Adjunct Scholar	Dalhousie University
2019–2020	Affiliate Researcher	University of Glasgow, Institute of Biodiversity

Other Employment History

2012–2013	Research Scientist III, Biometrician	Minnesota Department of Natural Resources
2003–2012	Natural Resources Program Consultant, Biometrician	Minnesota Department of Natural Resources
2000–2003	Biometrician III	Northwest Indian Fisheries Commission
1997	Mathematical Statistician	VA Medical Center

Awards and Honors

University of Minnesota

2021, 2022, 2023	Student Recognition as part of the Center for Educational Innovation's Thank a Teacher Program
2017–2020	McKnight Presidential Fellow
2019	CFANS Distinguished Undergraduate Teaching Award (tenured professor)
2019	Newman Art of Teaching Award

Grants and Contracts

External Grants

Year	Title/Sponsor	PIs	Amount
2025-2028	Data/Tools to Maximize Impact of ENRTF Projects. Legislative Citizen Commission on MN Resources.	John Fieberg	$216,000
2025-2028	Green Heron as an Indicator of Wetland-Dependent Species. Legislative Citizen Commission on MN Resources.	Elena West and John Fieberg	$424,000
2024-2026	Modeling marten movements to inform the shape, size, composition, and configuration of managed stands. National Council for Air and Stream Improvement.	John Fieberg and Smtih Freeman	$35,000
2023-2024	Starry stonewort and wild rice: assessment and response. MN Aquatic Invasive Species Research Center.	Dan Larkin and John Fieberg (co-PIs)	$342,436
2022-2023	Zone of Influence and impact to boreal caribou of Highway 3 and of the Tch All-Season Road (pre-and during- construction). Government of the Northwest Territories.	John Fieberg and Nilanjan Chatterjee (co-PIs)	$13,324
2021-2025	Ecological forecasting tools for movement-track management at the Yukon-to-Yellowstone migration corridor. NASA.	Bohrer, Gil (Ohio State University), John Fieberg (University of Minnesota), and Roland Kays (North Carolina State University)	$874,263 ($319,124 to University of Minnesota)

2020-2023	Integrating Professional and Citizen Monitoring to Improve Surveillance . MN Aquatic Invasive Species Research Center.	John Fieberg and Dan Larkin	$307,862
2019-2023	Trumpeter Swan Migration Ecology and Conservation. Legislative Citizen Commission on MN Resources.	David Andersen and John Fieberg	$300,000
2017-2019	Cost-effective monitoring of lakes newly infested with zebra mussels . MN Aquatic Invasive Species Research Center.	John Fieberg and Michael McCartney	$266,500
2015-2018	Design of Carnivore Occupancy Surveys Using Trail Cameras. MN Department of Natural Resources.	John Fieberg and Todd Arnold	$145,000
2014-2018	Shallow Lakes: Assessing Quality and Predicting Future Change. MN Department of Natural Resources.	John Fieberg	$122,935
2015-2017	Minnesota Moose Model Refinement. MN Department of Natural Resources.	John Fieberg	$85,000
2014-2017	Moose Statistical Modeling. MN Department of Natural Resources.	John Fieberg	$26,795
2014-2017	Delineating Sandhill Crane Populations in Minnesota Critical Needs for Managemen. Legislative Citizen Commission on MN Resources.	David Andersen and John Fieberg	$250,000
2014-2017	Delineating Sandhill Crane Populations in Minnesota. US Geological Survey, Quick Response Funds.	David Andersen and John Fieberg	$21,829
2014-2017	Delineating Sandhill Crane Populations in Minnesota. US Geological Survey, Science Support Partnership.	David Andersen and John Fieberg	$11,393
2015-2016	Genetic-based estimates of bear populations: maximizing bang for the buck. MN Department of Natural Resources.	John Fieberg	$20,000
2014-2016	Ecology of Bears in Northwestern Minnesota: Deeper Interpretation through Advanced Technologies and Analyses. MN Department of Natural Resources.	John Fieberg	$60,000

Internal Grants

Year	Title/Sponsor	PIs	Amount
2022	Developing a research monograph and an open-source textbook. Faculty Development Grant for Sabbatical Leave.	John Fieberg	$30,000
2019	Present, and Future of Habitat Selection and Species Distribution Models. Faculty Development Grant to spend a single semester leave at the University of Glasgow.	John Fieberg	$5,200

Publications

Books and Monographs

1. Fieberg, J. (2024). *Statistics for ecologists: A frequentist and bayesian treatment of modern regression models*. University of Minnesota Libraries Publishing.
2. Matthiopoulos, J., Fieberg, J. R., & Aarts, G. (2023). *Species-habitat associations: Spatial data, predictive models, and ecological insights*. University of Minnesota Libraries Publishing.
3. Morris, W., Doak, D., Groom, M., Kareiva, P., Fieberg, J., Gerber, L., Murphy, P., & Thomson, D. (1999). A practical handbook for population viability analysis. *The Nature Conservancy*, *80*.

Book Chapters

1. Horne, E. J. S., Fieberg, J., Börger, L., Rachlow, J. L., Calabrese, J. M., & Fleming, C. H. (2019). Animal home ranges. *Population Ecology in Practice*, 315–332.

Book Reviews

1. Fieberg, J. (2004). *Population viability analysis: Beissinger, SR and McCullough, DR (eds)(2002) population viability analysis. The university of chicago press, chicago, USA. Xvi+ 577pp., figs, tables, line diagrams, index. Hardback: Price 95.00,ISBN0-226-04177-8.paperback:price 35.00, ISBN 0-226-04178-6*. Blackwell Publishing Oxford, UK.

Editorials and Other Articles

1. Chatterjee, N., Kolzsch, A., Davidson, S. C., Bohrer, G., & Fieberg, J. (2023). Tracking predators by algorithm: A computerized workflow helps biologists identify killsites. *The Wildlife Professional*, *17*(4), 48–51.
2. Johnson, D. H., Anderson Jr, C., Applegate, R. D., Bailey, L., Cooch, E., Fieberg, J., Franklin, A. B., Gutiérrez, R., Miller, K. V., Nichols, J. D., et al. (2021). *A perspective on the journal of wildlife management*. *85*(7), 1305–1308.

Accepted Papers

1. Correia, H., Multiple co-authors, Fieberg, J., and Ferraro, P. Best practices for moving from correlation to causation in ecological research. Nature Communications.
2. Teitelbaum, Claire, Multiple co-authors, Fieberg, J., and De La Cruz, S. Waterfowl move less in heterogeneous and humanpopulated landscapes, with implications for spread of avian influenza viruses. Ecology Letters.

Peer-Reviewed Publications

1. Gould, E., Fraser, H. S., Parker, T. H., Nakagawa, S., Griffith, S. C., Vesk, P. A., Fidler, F., Hamilton, D. G., Abbey-Lee, R. N., Abbott, J. K., et al. (2025). Same data, different analysts: Variation in effect sizes due to analytical decisions in ecology and evolutionary biology. *BMC Biology*, *23*(1), 35.
2. Shaw, A. K., Fouda, L., Mezzini, S., Kim, D., Chatterjee, N., Wolfson, D., Abrahms, B., Attias, N., Beardsworth, C. E., Beltran, R. S., et al. (2025). Perceived and observed biases within scientific communities: A case study in movement ecology. *Proceedings of the Royal Society B: Biological Sciences*, *292*(2051).
3. Iannarilli, F., Gerber, B. D., Erb, J., & Fieberg, J. R. (2025). A "how-to" guide for estimating animal diel activity using hierarchical models. *Journal of Animal Ecology*, *94*(2), 182–194.
4. Wolfson, D. W., Knapik, R. T., Buckardt Thomas, A., Harms, T. M., Kearns, L. J., Kiss, B. W., Poole, T. F., Fowler, D. N., Finger, T. A., Matteson, S. W., et al. (2025). High variability of migration strategies in a reestablished cygnus buccinator (trumpeter swan) population. *Ornithology*, *142*(2), ukae059.
5. Devarajan, K., Fidino, M., Farris, Z. J., Adalsteinsson, S. A., Andrade-Ponce, G., Angstmann, J. L., Anthonysamy, W., Aquino, J., Asefa, A., Avila, B., et al. (2025). When the wild things are: Defining mammalian diel activity and plasticity. *Science Advances*, *11*(9), eado3843.
6. Missik, J. E., Davidson, S. C., Scyphers, M. E., Hebblewhite, M., Kelly, A. P., Fieberg, J. R., Kays, R., Lohr, A., Russell, K. L., Suitor, M., et al. (2025). ECODATA: A toolbox to efficiently explore and communicate animal movements alongside environmental and anthropogenic context using geospatial big data. *Methods in Ecology and Evolution*, *16*(10), 2318–2325.
7. Thomas, A., Fieberg, J., Runquist, E., Nordmeyer, C., & Stapleton, S. (2025). Oviposition substrate preferences of two endangered prairie butterflies in an ex situ conservation environment. *Endangered Species Research*, *58*, 15–21.
8. Signer, J., Fieberg, J., Reineking, B., Schlägel, U., Smith, B., Balkenhol, N., & Avgar, T. (2024). Simulating animal space use from fitted integrated step-selection functions (iSSF). *Methods in Ecology and Evolution*, *15*(1), 43–50.
9. Michelot, T., Klappstein, N. J., Potts, J. R., & Fieberg, J. (2024). Understanding step selection analysis through numerical integration. *Methods in Ecology and Evolution*, *15*(1), 24–35.
10. Vélez, J., McShea, W., Pukazhenthi, B., Stevenson, P., & Fieberg, J. (2024). Implications of the scale of detection for inferring co-occurrence patterns from paired camera traps and acoustic recorders. *Conservation Biology*, *38*(3), e14218.
11. Hofmann, D. D., Cozzi, G., & Fieberg, J. (2024). Methods for implementing integrated step-selection functions with incomplete data. *Movement Ecology*, *12*(1), 37.
12. Bajcz, A. W., Glisson, W. J., Doser, J. W., Larkin, D. J., & Fieberg, J. R. (2024). A within-lake occupancy model for starry stonewort, nitellopsis obtusa, to support early detection and monitoring. *Scientific Reports*, *14*(1), 2644.
13. Fieberg, J., Freeman, S., & Signer, J. (2024). Using lineups to evaluate goodness of fit of animal movement models. *Methods in Ecology and Evolution*.
14. Klappstein, N. J., Michelot, T., Fieberg, J., Pedersen, E. J., & Mills Flemming, J. (2024). Step selection functions with non-linear and random effects. *Methods in Ecology and Evolution*, *15*(8), 1332–1346.
15. Chatterjee, N., Wolfson, D., Kim, D., Velez, J., Freeman, S., Bacheler, N. M., Shertzer, K., Taylor, J. C., & Fieberg, J. (2024). Modelling individual variability in habitat selection and movement using integrated step-selection analysis. *Methods in Ecology and Evolution*.
16. Jiménez, L., Fieberg, J. R., McCartney, M., & Ferguson, J. M. (2024). A framework for modeling the impacts of adaptive search intensity on the efficiency of abundance surveys. *Ecology*, *105*(9), e4396.
17. Velez, J., McShea, W., Pukazhenthi, B., Rodriguez, J. D., Suarez, M. F., Torres, J. M., Barrera, C., & Fieberg, J. (2024). Cattle exclusion increases encounters of wild herbivores in neotropical forests. *Journal of Applied Ecology*, *61*(10), 2444–2454.
18. Kim, D., Thompson, P. R., Wolfson, D. W., Merkle, J. A., Oliveira-Santos, L., Forester, J. D., Avgar, T., Lewis, M. A., & Fieberg, J. (2024). Identifying signals of memory from observations of animal movements. *Movement Ecology*, *12*(1), 72.
19. Ferguson, J. M., Jiménez, L., Keyes, A. A., Hilding, A., McCartney, M. A., Clair, K. S., Johnson, D. H., & Fieberg, J. R. (2023). A comparison of survey method efficiencies for estimating densities of zebra mussels (dreissena polymorpha). *PeerJ*, *11*, e15528.

20. Vélez, J., McShea, W., Shamon, H., Castiblanco-Camacho, P. J., Tabak, M. A., Chalmers, C., Fergus, P., & Fieberg, J. (2023). An evaluation of platforms for processing camera-trap data using artificial intelligence. *Methods in Ecology and Evolution*, *14*(2), 459–477.
21. Gable, T. D., Johnson-Bice, S. M., Homkes, A. T., Fieberg, J., & Bump, J. K. (2023). Wolves alter the trajectory of forests by shaping the central place foraging behaviour of an ecosystem engineer. *Proceedings of the Royal Society B*, *290*(2010), 20231377.
22. Hodel, F. H., & Fieberg, J. R. (2022). Circular–linear copulae for animal movement data. *Methods in Ecology and Evolution*, *13*(5), 1001–1013.
23. Banet, N. V., Fieberg, J., & Sorensen, P. W. (2022). Migration, homing and spatial ecology of common carp in interconnected lakes. *Ecology of Freshwater Fish*, *31*(1), 164–176.
24. Northrup, J. M., Vander Wal, E., Bonar, M., Fieberg, J., Laforge, M. P., Leclerc, M., Prokopenko, C. M., & Gerber, B. D. (2022). Conceptual and methodological advances in habitat-selection modeling: Guidelines for ecology and evolution. *Ecological Applications*, *32*(1), e02470.
25. Wolfson, D. W., Andersen, D. E., & Fieberg, J. R. (2022). Using piecewise regression to identify biological phenomena in biotelemetry datasets. *Journal of Animal Ecology*, *91*(9), 1755–1769.
26. Buck, R. J., Fieberg, J., & Larkin, D. J. (2022). The use of weighted averages of hedges'd in meta-analysis: Is it worth it? *Methods in Ecology and Evolution*, *13*(5), 1093–1105.
27. Severud, W. J., Wolfson, D., Fieberg, J., & Andersen, D. E. (2022). Sandhill crane colt survival in minnesota. *Journal of Fish and Wildlife Management*, *13*(2), 494–501.
28. Signer, J., & Fieberg, J. R. (2021). A fresh look at an old concept: Home-range estimation in a tidy world. *PeerJ*, *9*, e11031.
29. Fieberg, J., Signer, J., Smith, B., & Avgar, T. (2021). A "how to" guide for interpreting parameters in habitat-selection analyses. *Journal of Animal Ecology*, *90*(5), 1027–1043.
30. Iannarilli, F., Erb, J., Arnold, T. W., & Fieberg, J. R. (2021). Evaluating species-specific responses to camera-trap survey designs. *Wildlife Biology*, *2021*(1), 1–12.
31. Vitense, K., Hanson, M. A., Herwig, B. R., Zimmer, K. D., & Fieberg, J. (2021). Using hidden markov models to inform conservation and management strategies in ecosystems exhibiting alternative stable states. *Journal of Applied Ecology*, *58*(5), 1069–1078.
32. Aarts, G., Mul, E., Fieberg, J., Brasseur, S., Gils, J. A. van, Matthiopoulos, J., & Riotte-Lambert, L. (2021). Individual-level memory is sufficient to create spatial segregation among neighboring colonies of central place foragers. *The American Naturalist*, *198*(2), E37–E52.
33. Supp, S. R., Bohrer, G., Fieberg, J., & La Sorte, F. A. (2021). Estimating the movements of terrestrial animal populations using broad-scale occurrence data. *Movement Ecology*, *9*(1), 60.
34. Muff, S., Signer, J., & Fieberg, J. (2020). Accounting for individual-specific variation in habitat-selection studies: Efficient estimation of mixed-effects models using bayesian or frequentist computation. *Journal of Animal Ecology*, *89*(1), 80–92.
35. Wolfson, D. W., Fieberg, J. R., & Andersen, D. E. (2020). Juvenile sandhill cranes exhibit wider ranging and more exploratory movements than adults during the breeding season. *Ibis*, *162*(2), 556–562.
36. Matthiopoulos, J., Fieberg, J., Aarts, G., Barraquand, F., & Kendall, B. E. (2020). Within reach? Habitat availability as a function of individual mobility and spatial structuring. *The American Naturalist*, *195*(6), 1009–1026.
37. Archmiller, A. A., Johnson, A. D., Nolan, J., Edwards, M., Elliott, L. H., Ferguson, J. M., Iannarilli, F., Vélez, J., Vitense, K., Johnson, D. H., et al. (2020). Computational reproducibility in the wildlife society's flagship journals. *The Journal of Wildlife Management*, *84*(5), 1012–1017.
38. Berg, S. S., Erb, J. D., Spaid, V. T., Dewey, D. L., Coy, P. L., Sampson, B. A., Fieberg, J. R., Arnold, T. W., & Forester, J. D. (2020). The role of local cavity tree density in the selection of den sites by female fishers (pekania pennanti) in northern minnesota. *Canadian Journal of Forest Research*, *50*(8), 742–750.
39. Fieberg, J. R., Vitense, K., & Johnson, D. H. (2020). Resampling-based methods for biologists. *PeerJ*, *8*, e9089.
40. Jornburom, P., Duangchantrasiri, S., Jinamoy, S., Pattanavibool, A., Hines, J. E., Arnold, T. W., Fieberg, J., & Smith, J. L. (2020). Habitat use by tiger prey in thailand's western forest complex: What will it take to fill a half-full tiger landscape? *Journal for Nature Conservation*, *58*, 125896.
41. Signer, J., Fieberg, J., & Avgar, T. (2019). Animal movement tools (amt): R package for managing tracking data and conducting habitat selection analyses. *Ecology and Evolution*, *9*(2), 880–890.
42. Vitense, K., Hanson, M. A., Herwig, B. R., Zimmer, K. D., & Fieberg, J. (2019). Predicting total phosphorus levels as indicators for shallow lake management. *Ecological Indicators*, *96*, 278–287.
43. Duangchatrasiri, S., Jornburom, P., Jinamoy, S., Pattanvibool, A., Hines, J. E., Arnold, T. W., Fieberg, J., & Smith, J. L. (2019). Impact of prey occupancy and other ecological and anthropogenic factors on tiger distribution in thailand's western forest complex. *Ecology and Evolution*, *9*(5), 2449–2458.

44. Severud, W. J., Obermoller, T. R., Delgiudice, G. D., & Fieberg, J. R. (2019). Survival and cause-specific mortality of moose calves in northeastern minnesota. *The Journal of Wildlife Management*, *83*(5), 1131–1142.
45. Larkin, D. J., Buck, R. J., Fieberg, J., & Galatowitsch, S. M. (2019). Revisiting the benefits of active approaches for restoring damaged ecosystems. A comment on jones HP et al. 2018 restoration and repair of earth's damaged ecosystems. *Proceedings of the Royal Society B*, *286*(1907), 20182928.
46. Ferguson, J. M., McCartney, M. A., Blinick, N. S., Schroeder, L., & Fieberg, J. (2019). Using distance sampling to estimate densities of zebra mussels (dreissena polymorpha) in early-stage invasions. *Freshwater Science*, *38*(4), 856–868.
47. Iannarilli, F., Arnold, T. W., Erb, J., & Fieberg, J. R. (2019). Using lorelograms to measure and model correlation in binary data: Applications to ecological studies. *Methods in Ecology and Evolution*, *10*(12), 2153–2162.
48. Fieberg, J. R., Forester, J. D., Street, G. M., Johnson, D. H., ArchMiller, A. A., & Matthiopoulos, J. (2018). Used-habitat calibration plots: A new procedure for validating species distribution, resource selection, and step-selection models. *Ecography*, *41*(5), 737–752.
49. Vitense, K., Hanson, M. A., Herwig, B. R., Zimmer, K. D., & Fieberg, J. (2018). Uncovering state-dependent relationships in shallow lakes using bayesian latent variable regression. *Ecological Applications*, *28*(2), 309–322.
50. Mech, L. D., Fieberg, J., & Barber-Meyer, S. (2018). An historical overview and update of wolf–moose interactions in northeastern minnesota. *Wildlife Society Bulletin*, *42*(1), 40–47.
51. ArchMiller, A. A., Dorazio, R. M., St. Clair, K., & Fieberg, J. R. (2018). Time series sightability modeling of animal populations. *PLoS One*, *13*(1), e0190706.
52. Shertzer, K. W., Bacheler, N. M., Kellison, G. T., Fieberg, J., & Wiggers, R. K. (2018). Release mortality of endangered warsaw grouper hyporthodus nigritus: A state-space model applied to capture-recapture data. *Endangered Species Research*, *35*, 15–22.
53. Ditmer, M. A., Rettler, S. J., Fieberg, J. R., Iaizzo, P. A., Laske, T. G., Noyce, K. V., & Garshelis, D. L. (2018). American black bears perceive the risks of crossing roads. *Behavioral Ecology*, *29*(3), 667–675.
54. Martin, H. W., Mech, L. D., Fieberg, J., Metz, M. C., MacNulty, D. R., Stahler, D. R., & Smith, D. W. (2018). Factors affecting gray wolf (canis lupus) encounter rate with elk (cervus elaphus) in yellowstone national park. *Canadian Journal of Zoology*, *96*(9), 1032–1042.
55. Herberg, A. M., St-Louis, V., Carstensen, M., Fieberg, J., Thompson, D. P., Crouse, J. A., & Forester, J. D. (2018). Calibration of a rumen bolus to measure continuous internal body temperature in moose. *Wildlife Society Bulletin*, *42*(2), 328–337.
56. Ditmer, M. A., Fieberg, J. R., Moen, R. A., Windels, S. K., Stapleton, S. P., & Harris, T. R. (2018). Moose movement rates are altered by wolf presence in two ecosystems. *Ecology and Evolution*, *8*(17), 9017–9033.
57. Ditmer, M. A., Noyce, K. V., Fieberg, J. R., & Garshelis, D. L. (2018). Delineating the ecological and geographic edge of an opportunist: The american black bear exploiting an agricultural landscape. *Ecological Modelling*, *387*, 205–219.
58. ArchMiller, A., Fieberg, J., Walker, J., & Holm, N. (2017). Group peer assessment for summative evaluation in a graduate-level statistics course for ecologists. *Assessment & Evaluation in Higher Education*, *42*(8), 1208–1220.
59. Shertzer, K. W., Fieberg, J., Potts, J. C., & Burton, M. L. (2017). Identifying growth morphs from mixtures of size-at-age data. *Fisheries Research*, *185*, 83–89.
60. Berg, S. S., Erb, J. D., Fieberg, J. R., & Forester, J. D. (2017). Utility of radio-telemetry data for improving statistical population reconstruction. *The Journal of Wildlife Management*, *81*(3), 535–544.
61. Signer, J., Fieberg, J., & Avgar, T. (2017). Estimating utilization distributions from fitted step-selection functions. *Ecosphere*, *8*(4), e01771.
62. Scotson, L., Johnston, L. R., Iannarilli, F., Wearn, O. R., Mohd-Azlan, J., Wong, W. M., Gray, T. N., Dinata, Y., Suzuki, A., Willard, C. E., et al. (2017). Best practices and software for the management and sharing of camera trap data for small and large scales studies. *Remote Sensing in Ecology and Conservation*, *3*(3), 158–172.
63. Wolfson, D., Fieberg, J., Lawrence, J. S., Cooper, T. R., & Andersen, D. E. (2017). Range overlap between mid-continent and eastern sandhill cranes revealed by GPS-tracking. *Wildlife Society Bulletin*, *41*(3), 489–498.
64. Palmer, M., Fieberg, J., Swanson, A., Kosmala, M., & Packer, C. (2017). A 'dynamic'landscape of fear: Prey responses to spatiotemporal variations in predation risk across the lunar cycle. *Ecology Letters*, *20*(11), 1364–1373.
65. Scotson, L., Fredriksson, G., Ngoprasert, D., Wong, W.-M., & Fieberg, J. (2017). Projecting range-wide sun bear population trends using tree cover and camera-trap bycatch data. *PloS One*, *12*(9), e0185336.
66. Ditmer, M. A., Garshelis, D. L., Noyce, K. V., Haveles, A. W., & Fieberg, J. R. (2016). Are american black bears in an agricultural landscape being sustained by crops? *Journal of Mammalogy*, *97*(1), 54–67.
67. Thompson, S. J., Arnold, T. W., Fieberg, J., Granfors, D. A., Vacek, S., & Palaia, N. (2016). Grassland birds demonstrate delayed response to large-scale tree removal in central north america. *Journal of Applied Ecology*, *53*(1), 284–294.

68. Shertzer, K. W., Bacheler, N. M., Coggins Jr, L. G., & Fieberg, J. (2016). Relating trap capture to abundance: A hierarchical state-space model applied to black sea bass (centropristis striata). *ICES Journal of Marine Science*, *73*(2), 512–519.
69. Street, G. M., Fieberg, J., Rodgers, A. R., Carstensen, M., Moen, R., Moore, S. A., Windels, S. K., & Forester, J. D. (2016). Habitat functional response mitigates reduced foraging opportunity: Implications for animal fitness and space use. *Landscape Ecology*, *31*, 1939–1953.
70. Mech, L. D., & Fieberg, J. (2015). Growth rates and variances of unexploited wolf populations in dynamic equilibria. *Wildlife Society Bulletin*, *39*(1), 41–48.
71. Matthiopoulos, J., Fieberg, J., Aarts, G., Beyer, H. L., Morales, J. M., & Haydon, D. T. (2015). Establishing the link between habitat selection and animal population dynamics. *Ecological Monographs*, *85*(3), 413–436.
72. Ditmer, M., Garshelis, D., Noyce, K., Laske, T., Iaizzo, P., Burk, T., Forester, J., & Fieberg, J. (2015). Behavioral and physiological responses of american black bears to landscape features within an agricultural region. *Ecosphere*, *6*(3), 1–21.
73. Fieberg, J., & Johnson, D. H. (2015). MMI: Multimodel inference or models with management implications? *The Journal of Wildlife Management*, *79*(5), 708–718.
74. Signer, J., Balkenhol, N., Ditmer, M., & Fieberg, J. (2015). Does estimator choice influence our ability to detect changes in home-range size? *Animal Biotelemetry*, *3*, 1–9.
75. Ditmer, M. A., Vincent, J. B., Werden, L. K., Tanner, J. C., Laske, T. G., Iaizzo, P. A., Garshelis, D. L., & Fieberg, J. R. (2015). Bears show a physiological but limited behavioral response to unmanned aerial vehicles. *Current Biology*, *25*(17), 2278–2283.
76. Fieberg, J. R., Jenkins, K., McCorquodale, S., Rice, C. G., White, G. C., & White, K. (2015). Do capture and survey methods influence whether marked animals are representative of unmarked animals? *Wildlife Society Bulletin*, *39*(4), 713–720.
77. Rave, D. P., Zicus, M. C., Fieberg, J. R., Savoy, L., & Regan, K. (2014). Trends in eggshell thickness and mercury in common goldeneye and hooded merganser eggs. *Wildlife Society Bulletin*, *38*(1), 9–13.
78. Roy, C. L., Fieberg, J., Scharenbroich, C., & Herwig, C. M. (2014). Thinking like a duck: Fall lake use and movement patterns of juvenile ring-necked ducks before migration. *Plos One*, *9*(2), e88597.
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Submitted Papers

1. Scacco, M., multiple co-authors, J. Fieberg, Shepard, E. Air flows redefine the cost of aerial transport in the wild. Science.
2. Thomas, A., Fieberg, J., Runquist, E., and Stapleton, S. Breeding behaviors of an endangered prairie butterfly in relation to environmental factors in an ex situ conservation setting. Journal of Zoological and Botanical Gardens.
3. Kim, D., Michelot, Théo, Mertes, K., Stabach, J. A., and Fieberg, J. (2025). Detecting disease progression from animal movement using hidden Markov models. Journal of Applied Ecology.
4. Wolfson, D., Fieberg, J., and Andersen, D. E. High prevalence but low concentrations of blood lead (Pb) levels among Trumpeter Swans in central North America. Ecotoxicology.
5. Perry, J., Aden, I., and Fieberg, J. Make this your own: Encourage a sense of belonging to support self-advocacy by undergraduate students in large universities. North American Colleges and Teachers of Agriculture (NACTA).
6. Oliver, R., Additional multiple co-authors, Fieberg, J., … abd Pollock, L. Seven reasons we need movementbased indicators in global policy. Nature Reviews Biodiversity.

Data and Code Archives

1. Thomas, A., Fieberg, J., Runquist, E., Nordmeyer, C., & Stapleton, S. (2025). *R code and output supporting: Breeding behaviors of an endangered prairie butterfly in relation to environmental factors in an ex situ conservation setting*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/hrvr-qv93
2. Thomas, A., Fieberg, J., Runquist, E., Nordmeyer, C., & Stapleton, S. (2025). *R code and output supporting: Oviposition substrate preferences of two endangered prairie butterflies in an ex situ conservation environment*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/4avc-m155
3. Kim, D., Michelot, T., Mertes, K., Stabach, J. A., & Fieberg, J. (2025). *R code supporting: Detecting disease progression from animal movement using hidden markov models*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/7ea0-6c10

4. Bajcz, A. W., Glisson, W., Larkin, D. J., & Fieberg, J. (2024). *R Code, Data, and Output Supporting: A within-lake occupancy model for starry stonewort, Nitellopsis obtusa, to support early detection and monitoring*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/BC08-RF86
5. Chatterjee, N., Wolfson, D., Kim, D., Velez, J., Freeman, S., Bacheler, N., Shertzer, K., Taylor, C., & Fieberg, J. (2024). *R Code and Output Supporting: Modeling individual variability in habitat selection and movement using integrated step-selection analyses*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/27HQ-ZX30
6. Vélez, J., McShea, W., Pukazhenthi, B., Rodríguez, J. D., Suárez, M. F., Torres, J. M., Barrera, C., & Fieberg, J. (2024). *R code and data supporting: Cattle exclusion increases encounters of wild herbivores in Neotropical forests*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/K7X0-GY26
7. Fieberg, J., Freeman, S., & Signer, J. (2023). *R code associated with Evaluating goodness-of-fit of animal movement models using lineups*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/3M0D-MP29
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10. Vélez, J., McShea, W., Pukazhenthi, B., Fieberg, J., & Stevenson, P. (2023). *R code and data supporting: Implications of the scale of detection for inferring co-occurrence patterns from paired camera traps and acoustic recorders*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/2JB4-K139
11. Hofmann, D. D., Cozzi, G., & Fieberg, J. R. (2023). *R code associated with Methods for Implementing Integrated Step-Selection Functions with Incomplete Data*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/6WCD-6S43
12. Wolfson, D., Andersen, D., & Fieberg, J. (2022). *Data and R supporting: Using Piecewise Regression to Identify Biological Phenomena in Biotelemetry Datasets*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/QBHA-BS48
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14. Buck, R., Fieberg, J. R., & Larkin, D. J. (2021). *Data and code for analyses in "The Use of Weighted Averages with Hedges: Is it Worth It?"* Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/2AN3-EJ53
15. Hodel, F., & Fieberg, J. R. (2021). *Data and R code supporting: Circular-Linear Copulae for Animal Movement Data*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/1F35-RN20
16. Fieberg, J., Signer, J., Smith, B., & Avgar, T. (2021). *R Code and Output Supporting: A 'How-to' Guide for Interpreting Parameters in Habitat-Selection Analyses*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/2Q0Q-YQ05
17. Vitense, K., Hanson, M. A., Herwig, B. R., Zimmer, K. D., & Fieberg, J. R. (2021). *Data and R code supporting "A hidden Markov model for ecosystems exhibiting alternative stable states"*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/SM2D-FK79
18. Iannarilli, F., Erb, J., Arnold, T. W., & Fieberg, J. R. (2020). *Data, R Code, and Output Supporting: Evaluating species-specific responses to camera-trap survey designs*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/97B4-JH36
19. Fieberg, J., Vitense, K., & Johnson, D. H. (2020). *R Code and Output Supporting: Resampling-Based Methods for Biologists*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/WN56-9Y75
20. Iannarilli, F., Arnold, T. W., Erb, J., & Fieberg, J. R. (2019). *Data, R Code, and Output Supporting: Using lorelograms to measure and model correlation in binary data: Applications to ecological studies*. The Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/Q3Y6-H459
21. Muff, S., Signer, J., & Fieberg, J. (2019). *R Code and Output Supporting "Accounting for individual-specific variation in habitat-selection studies: Efficient estimation of mixed-effects models using Bayesian or frequentist computation"*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/8BHV-DZ98
22. ArchMiller, A. A., Johnson, A. D., Nolan, J., Edwards, M., Elliot, L. H., Ferguson, J. M., Iannarilli, F., Velez, J., Vitense, K., Johnson, D. H., & Fieberg, J. R. (2019). *R Code and Output Supporting: Computational reproducibility in The Wildlife Society's flagship journals*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/JNY1-WY60

23. Ferguson, J. M., Fieberg, J. R., McCartney, M. A., Blinick, N. S., & Schroeder, L. (2019). *Data and R code to support: Estimating densities of zebra mussels (Dreissena polymorpha) in early invasions using distance sampling*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/D6HC-BW36
24. Wolfson, D. W., Fieberg, J., & Andersen, D. (2018). *Data supporting "Movement strategies of adult and juvenile sandhill cranes (Antigone canadensis) during the breeding season"*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/D6BH7B
25. Vitense, K., Hanson, M. A., Herwig, B. R., Zimmer, K. D., & Fieberg, J. (2018). *Data supporting "Predicting total phosphorus levels as indicators for shallow lake management"*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/D6PD8S
26. Vitense, K., Hanson, M. A., Herwig, B. R., Zimmer, K. D., & Fieberg, J. (2017). *Data and R code supporting "Uncovering state-dependent relationships in shallow lakes using Bayesian latent variable regression"*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/D6408P
27. Fieberg, J., Mech, L. D., & Barber-Meyer, S. (2017). *Data, R Code, and Output Supporting "An Historical Overview and Update of Wolf-Moose Interactions in Northeastern Minnesota"*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/D6096S
28. Wolfson, D. W., Fieberg, J. R., Lawerence, J. S., Cooper, T. R., & Andersen, D. E. (2017). *Data, R Code, and Output Supporting: Range Overlap between Mid-Continent and Eastern Sandhill Cranes revealed by GPS-tracking*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/D64P42
29. ArchMiller, A. A., Fieberg, J. R., Dorazio, R. M., & St. Clair, K. (2017). *R code and output supporting: Time series sightability modeling of animal populations*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/D6N30B
30. Fieberg, J. R., Forester, J. D., Street, G. M., Johnson, D. H., ArchMiller, A. A., & Matthiopoulos, J. (2016). *R Code and Output Supporting: Species Distribution Models: Predictive Snipers or Shots in the Dark?* Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/D6T590
31. Fieberg, J. R. (2015). *R Code and Output Supporting: Do Capture and Survey Methods Influence Whether Marked Animals are Representative of Unmarked Animals?* Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/D6Z597
32. Fieberg, J. (2014). *Home range overlap indices implemented using kernel density estimators with plug-in smoothing parameters and Program R*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/D6G59W
33. Fieberg, J., & Mech, D. (2014). *Growth Rates and Variances of Unexploited Wolf Populations in Dynamic Equilibria: Data, R Code, and Supporting Results*. Data Repository for the University of Minnesota (DRUM). https://doi.org/10.13020/D6RP4N

Selected Invited Presentations

- Fieberg, J. 2025. Statistical Training for Ecologists in the Era of Big Data, Big Models, and AI. Plenary talk in a Thematic Session on teaching statistics to ecologists at the British Ecological Society Meeting, December 16, 2025, Edinburgh, UK.
- Fieberg, J. 2024. Playing in the backyard: The role of statistical ecologists in the evolution of step-selection analysis. Plenary talk, International Statistical Ecology Meeting. July 15-19, Swansea University, Wales.
- Fieberg, J. 2023. The abcs of Species Distribution and Habitat-Selection Models. Invited talk, Yale Center for Biodiversity and Global Change. March 10, 2023.
- Fieberg, J. R, Freeman, S., Signer, J.. 2023. Evaluating Goodness-of-Fit of Animal Movement Models Using Lineups, Gordon Research Conference, Luca, Italy.
- Fieberg, J. R., Signer, J., Smith, B., Hodel, F., Hofmann, D., Avgar, T. 2022. Modeling Animal Movements Using Integrated Step-Selection Functions. Annual meeting of The Wildlife Society, Spokane, Washington.
- Muff, S., Signer, J., Fieberg, J. R.. 2022. Efficient mixed-effects modeling in habitat selection studies. Annual meeting of The Wildlife Society, Spokane, Washington.
- Fieberg, J., Signer, J., Smith, B., and Avgar, T. 2021. A 'How to'guide for interpreting parameters in habitat?selection analyses. Virtual presentation to the Statistics Journal Club, Institute of Biodiversity, Animal Health & Comparative Medicine. April 2021.
- Fieberg, J. 2021. Species-Habitat Associations: Spatial Data, Predictive Models, and Ecological Insights. Conservation Sciences Seminar Series, March 2021.
- Fieberg, J., D. Larkin, and R. Buck. 2020. Meta-Analyses of Observational Studies in Wildlife Conservation: Getting the Basics Right. Invited talk in a symposium on meta-analysis. Annual Meeting of the Wildlife Society, virtual, Sept 28- Oct. 2.

- Fieberg, J. 2020. My Life as a Quantitative Ecologist: A Chance to Dunk on Everyone's Hoop. Quantitative Ecology and Spatial Technologies (QuEST) Laboratory at Mississippi State University, May 21, 2020.
- Fieberg, J. 2020. What I've learned, so far, as a quantitative ecologist. Invited talk, Utah Center for Ecology, Utah State University, Logan Utah, January 15, 2020.
- Fieberg, J., Muff, S. and J. Signer. 2020. Methods for modeling variability among-animals in habitat selection studies. Invited talk, Utah Center for Ecology, Utah State University, Logan Utah, January 15, 2020.
- Archer, A.A., A.D. Johnson, J. Nolan, M. Edwards, L.H. Elliot, J. Ferguson, F. Iannarilli, J. Velez, K. Vitense, D.H., Johnson, and J. Fieberg. 2020. The status of the "reproducibility crisis" in the wildlife sciences. Open Science Colloquium, Trondheim Norway, October 12-13, 2020.
- Fieberg, J., Muff, S. and J. Signer. 2019. Methods for modeling among-animal variability in habitat selection studies. Invited Plenary, Animove workshop, June 5, Yale Center for Biodiversity Movement and Global Change. New Haven, Connecticut, USA.
- Fieberg, J., Muff, S. and J. Signer. 2019. Methods for modeling among-animal variability in habitat selection studies. Biosciences Seminar Series, May 16, 2019, Swansea University, Wales UK. Swansea University.
- Fieberg, J.. 2018. Accounting for Animal-Specific Variation In Habitat Selection Studies. Keynote talk given at NSF sponsored workshop, Linking remote animal detection and movement data with macrosystem environmental datasets and networks, October 22nd and 23rd at the Smithsonian Mason School of Conservation (SMSC) in Front Royal VA.
- Fieberg, J. 2017. Why estimate home ranges and quantify habitat selection? And how? Ecology, Evolution, and Behavior Seminar Series, University of Minnesota, Nov. 29, 2017.
- Fieberg, J., J. Signer, and T. Avgar. 2017. How, why, and how much: understanding space-use patterns by linking animal movement, habitat selection, and home range. Euring Analytical Meeting and Workshop, Barcelona, Spain, July 2-7, 2017.
- Fieberg, J. 2013. Abundance estimation with sightability data: A new R package for implementing the traditional estimator and a Bayesian model-based alternative. Symposium: Thinking outside the quadrat: Advances in Aerial Sampling to Estimate Abundance of Terrestrial Wildlife, The Wildlife Society Annual Meeting, Milwaukee WI, October 9, 2013.
- Fieberg, J. 2012. Species Distribution Modeling", invited discussant. Symposium: "Approaches for Predicting a Species' Geographic Distribution Based on Presence-only Records and Background Data", Joint Statistical Meetings, San Diego, August 2012.
- Fieberg, J., K.W. Shertzer, P. B. Conn, K. V. Noyce, and D. L. Garshelis. 2010. Integrated population modeling of black bears in Minnesota: Implications for monitoring and management. Eastern Black Bear Workshop, May 2011.
- Fieberg, J., K.W. Shertzer, P. B. Conn, K. V. Noyce, and D. L. Garshelis. 2010. Integrated population modeling of black bears in Minnesota: implications for monitoring and management. Symposium: Using multiple data sources to manage harvested populations. The Wildlife Society Meeting, October 2010.
- Fieberg, J., Borger, L. 2009. Home range viewed through the eyes of a statistical consultant. Symposium: Diverse perspectives on home ranges of mammals. American Association of Mammalogists, Annual Meeting, Fairbanks, AK, June 25.
- Fieberg, J. 2006. Kernel density estimators of space use: smoothing and the autocorrelation red herring. St. Cloud State University, Biology Department Seminar Series.
- Fieberg, J. 2006. Home range analysis: A statistician's perspective. Home Range and Animal Movements: A Workshop, co-sponsored by Department of Biological Sciences at Idaho State University and the Department of Fish and Wildlife Resources at Idaho State University, Pocatello, Idaho, May 15-16, 2006.
- Fieberg, J. and C. Kochanny. 2005. Quantification of home range overlap. Symposium: Kernel Methods in Space Use. The Wildlife Society, Madison, WI.
- Fieberg, J. and S.P. Ellner. 2002. Using PVA for management in light of uncertainty: effects of habitat, hatcheries, and harvest. Symposium: Uncertainty and Ecological Forecasting, Ecological Society of America, Tucson AZ.
- Fieberg, J. and S.P. Ellner. 2002. Using PVA for management in light of uncertainty: effects of habitat, hatcheries, and harvest. National Marine Fisheries Service, Turk Lunch Seminar, Seattle, WA. [
- Fieberg, J. and K.J. Jenkins. 2002. An assessment of uncertainty related to elk population dynamics following simulated wolf reintroduction. University of Washington Wildlife Group Seminar, Seattle, WA.

Teaching

University of Minnesota

I teach Biometry (FW4001) in fall semesters and Statistics for Ecologists (FW8051) in spring semesters. I have also taught ESPM 4096 Experience & Training in a Field Setting (Spring 2014), conducted independent studies with students interested survival analysis (1 student, Spring 2014), Biometry (1 student, Fall 2015, 1 in Fall 2017), and spatial mark-recapture estimators (1 student Spring 2016).

Year	Course	Credits	Students
Fall 2025	FW4011 Biometry Lecture and Lab	4	39
Spring 2025	FW8051 Statistics for Ecologists	4	24
Fall 2024	FW4011 Biometry Lecture and Lab	4	37
Spring 2024	FW8051 Statistics for Ecologists	4	14
Fall 2023	FW4011 Biometry Lecture and Lab	4	41
Spring 2023	FW8051 Statistics for Ecologists	4	31
Fall 2022	FW4011 Biometry Lecture and Lab	4	41
Spring 2021	FW8051 Statistics for Ecologists	4	20
Fall 2020	FW4011 Biometry Lecture and Lab	4	51
Spring 2020	FW8051 Statistics for Ecologists	4	32
Fall 2019	FW4011 Biometry Lecture and Lab	4	33
Fall 2018	FW4011 Biometry Lecture and Lab	4	36
Spring 2018	FW8051 Statistics for Ecologists	4	27
Fall 2017	FW4011 Biometry Lecture and Lab	4	37
Fall 2017	FW4279 Independent Study (Biometry)	4	1
Spring 2017	FW8051 Statistics for Ecologists	4	18
Fall 2016	FW4011 Biometry Lecture and Lab	4	36
Spring 2016	CFAN4801H Honors Thesis	3	1
Spring 2016	FW8051 Statistics for Ecologists	4	23
Fall 2015	FW4001 Biometry Lecture and Lab	4	38
Fall 2015	FW 4391 Independent Study (Biometry)	4	1
Spring 2015	FW8051 Statistics for Ecologists	4	18
Fall 2014	FW4001 Biometry Lecture and Lab	4	33
Spring 2014	ESPM 4096 Experience and Training in a Field Setting	1	25
Spring 2014	FW 4391 Independent Study (Survival Analysis)	2	1

University of Zurich

I have helped co-teach a week-long course on animal movement ecology at the University of Zurich roughly every other year.

Year	Course	Credits	Students
2021	ECO343 Spatial Dimension in Animal Management and Conservation	2	15
2017	ECO304 Animal Movement Ecology	2	19
2015	ECO304 Animal Movement Ecology	2	23
2013	ECO304 Animal Movement Ecology	2	28

North Carolina State University

I taught a 3-credit introductory statistics course, ST 311 Introduction to Statistics, during the first year of my PhD at North Carolina State University.

Workshops

Year	Workshop	Location
2025	Analysiing Animal Movement Data in the Ocean	Marine and Environmental Research Centre, Funchal, Madeira, Portugal
2023	Integrated Step-Selection Analyses	Yale Center for Biodiversity and Global Change, New Haven, Connecticut, USA
2022	Advances in quantifying space-use and habitat-selection of animals	International Statistical Ecology Meeting in Cape Town, South Africa

2019	Advances in Habitat-Selection Modeling: Models, Methods, and Software for Quantifying Among-Individual Variation in Movement and Habitat Selection Using Fine-Scale Telemetry Data	Annual meeting of The Wildlife Society in Reno, Nevada, USA
2019	Track annotation, visualization and analysis using Movebank and R	NSF-funded workshop, Scottish Center for Ecology, Glasgow UK
2018	Track annotation, visualization and analysis using Movebank and R	NSF-funded workshop,North Carolina State University, Raleigh, NC, USA
2017	Developing a Workflow to Maximize Reproducibility and Research Impact: Managing Data, Computer Code, and Projects for Success.	The Wildlife Society Annual Meeting, Albuquerque, New Mexico
2017	Developing a Workflow to Maximize Reproducibility and Research Impact: Managing Data, Computer Code, and Projects for Success.	Minnesota Department of Natural Resources, Biometrics Unit, Forest Lake, MN, USA
2017	Track annotation, visualization and analysis using Movebank and R	NSF-funded workshop,North Carolina State University, Raleigh, NC, USA
2015	Introduction to R.	The Wildlife Society Annual Meeting, Winnipeg, Manitoba, Canada
2010	Bayesian Survival Analysis using WinBUGS	The Wildlife Society Annual Meeting, Snowbird, Utah, USA
1998	Population Viability Analysis Workshop	The Nature Conservancy, Santa Barbara, CA

Outreach and Other Activities Related to Teaching

- Proposed, organized, and led a roundtable discussion titled, “Quantitative Teachers: Teaching Strategies for Undergraduate Statistics in the Wildlife Sciences” at The Wildlife Society’s 2018 Annual Meeting, Cleveland OH.
- Workshop participant, “More than a Seat in the Classroom: Creating a Welcoming (and Empowering Place at the table for Intro Statistics Students)”, 2021 US Conference on Teaching Statistics.

Program and Curricular Development

FW 4001 Biometry

I completely redesigned this course, which historically had poor student evaluations and learning outcomes.

- New course textbook, new lectures, active learning exercises, and pedagogy emphasizing computational methods for inference (bootstrapping and randomization tests), leveraging the `mosaic` package for teaching R
- Developed 9 sets of interactive pre-lab assignments using the `Swirl` package in R and 10 new lab practicums

FW 8051 Statistics for Ecologists:

- Developed graduate-level course in statistics that attracts students from over 10 different graduate programs located across multiple colleges (CBS, CFANS, Vet Pop Med)
- Developed a method of peer and self-assessment, and wrote an open-access textbook, published with the University of Minnesota Libraries Publishing, and an associated exercise book available online.
- The textbook is also available as an online book (in html format). As of December 5, 2024, Google Analytics reports that the book has been accessed by over 18,000 users in 167 different countries (see below).

Mentoring

Faculty Mentoring

2026-	Chris, Shaffer, Teaching Assistant Professor in the Fisheries, Wildlife, and Conservation Biology Department, Junior Faculty Mentoring Committee
2025-Present	Elena West, Teaching Assistant Professor in the Fisheries, Wildlife, and Conservation Biology Department, Junior Faculty Mentoring Committee
2018-Present	Chad Babcock, Assistant Professor in Forestry Resources, Junior Faculty Mentoring Committee

2018-2023 Gretchen Hansen, Assistant Professor in the Fisheries, Wildlife, and Conservation Biology Department, Junior Faculty Mentoring Committee

Visiting Scientists

2025 Nicolas Ordax Sommer, PhD Student, University of Barcelona
2025 Benedetta Catitti, Post Doctoral Researcher, Swiss Ornithological Institute
2025 Aline Giroux, Post Doctoral Researcher, University of Florida
2018-2020 Stephanie DeMay, Associate Research Scientist with Texas A&M Natural Resources Institute
2016 Kyle Zimmer, Professor, St. Thomas University, hosted during his sabbatical leave.
2014 Johannes Signer, collaborated on one of his Ph D chapters, University of Goettingen, Germany

Postdoctoral Scientists

2025 Florian Hodel, Post Doc, Developing an App to Model CWD
2022-2024 Nilanjan Chatterjee (currently Postdoc at Senckenberg Biodiversity and Climate Research Center)
2021-2022 Alex Bajcz, Post Doc, Supervisor (currently quantitative ecologist with the Minnesota Aquatic Invasive Species Research Center)
2017-2018 Jake Ferguson, Post Doc, Supervisor (currently an assistant professor, University of Kentucky)
2015-2017 Althea ArchMiller, Post Doc, Supervisor (currently a Science Communicator with US Geological Survey)
2015 Garret Street, Post Doc, Co-Supervisor with James Forester (currently an associate professor at Mississippi State University)
2014-2015 Mark Ditmer, Post Doc, Co-Supervisor with Dave Garshelis (currently USFS Quantitative Research Ecologist, Rocky Mountain Research Station)

Graduate Advising

Year	Student	Thesis	Graduate Program	Degree
Current	Smith Freeman (co-advisor Joseph Bump)	TBD	Conservation Sciences	PhD
Current	Hannah Slesinski (co-advisor Elena West)	TBD	Conservation Sciences	MS
Current	Garrett Erickson-Harris (co-advisor Elena West)	TBD	Conservation Sciences	MS
2024	David Wolfson (co-advisor David Andersen)	A multi-faceted evaluation of a reintroduced waterfowl species: Migration ecology, ecotoxicology, and population genetics of Trumpeter Swans in the Midwest	Conservation Sciences	PhD
2024	Dogmin (Dennis) Kim (co-advisor Allison Shaw)	Exploring the Hidden Drivers of Animal Movement: Traits, Disease, and Memory	Ecology, Evolution, and Behavior	PhD
2023	Julian Velez	Enhancing mammal conservation in multi-functional landscapes using artificial intelligence, joint species distribution modeling and ecological experimentation	Conservation Sciences	PhD
2020	Fabiola Iannarilli (co-advisor Todd Arnold)	Addressing challenges in camera-trap studies: Survey designs for multiple species, serial dependence, and site-to-site variability when estimating activity patterns	Conservation Sciences	PhD
2018	Kelse Vitense	Shallow lakes in Minnesota: Can we predict the good, the bad, and the vulnerable?	Natural Resources Science and Management	PhD
2018	David Wolfson (co-advisor David Andersen)	Migratory Ecology and Movement Patterns of Mid-Continent and Eastern Sandhill Cranes	Natural Resources Science and Management	MS

Graduate Committees

Year	Student	Graduate Program	Degree
Current	Gabe Nyen	Natural Resources Science and Management	PhD
Current	Jeremiah Shrovnal	Conservation Sciences	PhD
Current	Alexander Jack	Biology, University of British Colombia	PhD
Current	Natasha Klapstein	Statistics, Dalhousie University	
Current	Virginia Roberts	Entomology	MS
Current	Aaron Morris	Conservation Sciences	PhD
Current	Abda Panda	Conservation Sciences	PhD
Current	Chris Wojan	Ecology, Evolution, and Behavior	PhD
ABD	Spencer Rettler	Conservation Sciences	PhD
ABD	Rodrigo Villalobos Aquirre	Conservation Sciences	PhD
2025	Tyler Obsermoller	Conservation Sciences	PhD
2025	Geoff Miller	Ecology, Evolution, and Behavior	PhD
2025	Audrey Hyke	Natural Resources Science and Management	MS
2025	Jack Rabe	Conservation Sciences	PhD
2024	Megan Struble	Conservation Sciences	MS
2022	Michael Verhoeven	Conservation Sciences	PhD
2022	Thomas Gable	Conservation Sciences	PhD
2022	Angelique Dahlberg (through written prelim)	Conservation Sciences	PhD
2019	Lisa Elliot	Conservation Sciences	PhD
2019	Holly Kundel	Conservation Sciences	MS
2019	Adam Doll	Conservation Sciences	MS
2018	Meridith Palmer	Ecology, Evolution, and Behavior	PhD
2017	William Severud	Natural Resources Science and Management	PhD
2017	Gunnar Kramer	Natural Resources Science and Management	MS
2017	Andrew Herberg	Natural Resources Science and Management	MS
2016	Pornkamol Jornburom	Conservation Biology	PhD
2016	David Wilson	Natural Resources Science and Management	PhD
2016	Sergey Berg	Conservation Biology	PhD
2016	Derek Hamilton	Conservation Biology	MS
2016	Nathan Banet	Conservation Biology	MS
2016	Hans Martin	Natural Resources Science and Management	MS
2015	Lorraine Scotson	Conservation Sciences	PhD
2014	Mark Ditmer	Conservation Biology	PhD
2008	Perry Williams	Natural Resources Science and Management	MS

Undergraduate Research

2021	Thomas Hall	UROP: Using the SIMEX Method to Address Parameter Bias in Animal Movement Models
2021	Casey Volante	Metro State Internship: Quantitative ecology research
2020	Hannah Paavola	UROP: Camera Trap Data Processing and Species Identification
2018	Leah Vaughn	UROP: Spatial and Temporal Partitioning of Carnivores in Northern Minnesota
2011-2012	Michael Alexander	External Advisor: Carleton College Math Comp Project
2011-2012	Scarlett Tse	External Advisor: Carleton College Math Comp Project
2011-2012	Tanner Martin	External Advisor: Carleton College Math Comp Project
2009-2010	Chrisna Aing	External Advisor: Carleton College Math Comp Project
2009-2010	Sarah Halls	External Advisor: Carleton College Math Comp Project
2009-2010	Kiva Oken	External Advisor: Carleton College Math Comp Project

Honor's Students

2024	Amaya Thomas, Committee member	Reproductive behaviors of the Dakota skipper (Hesperia dacotae) and the Poweshiek skipperling (Oarisma poweshiek) in an ex situ conservation setting
2024	Gretchen North, Committee member	Case study: macroinvertebrate decomposer community structure and dynamics in Narok County, Kenya

2023	Claire Stocker, Committee member	The Flight of the Bumble Bee: Prospects in Tracking Bombus sp. Using Very High Frequency (VHF) Radio Telemetry
2018	Elizabeth McGraw, Committee member	Climate change effects on agricultural practices in Lake Eyasi Valley, Karatu District, Tanzania
2016	Nick Gondeck, Advisor	Subsampling for Cost Efficiency with Spatially Explicit Capture-Recapture Models

Other mentoring

2021-2023	Sabyasachi Bera, School of Statistics, Ph D, Research Assistantship Supervisor
2014-2016	Hans Martin, MS Natural Resources Science and Management, Lab Participation
2003-2004	University of Minnesota, School of Public Health student mentoring program, mentored 2 graduate students in the Biostatistics department

Collegiate Service

2025-2026	CFANS Informal Teaching Load Working Group
2022-2024	CFANS Undergraduate Policy Review Committee
2023-2024	CFANS Curriculum Committee
2022-2024	CFANS Collegiate Fees Committee (Chair)
2019-2021	CFANS Faculty Consultative Committee (Vice Chair 2020-2021)
2020-2021	CFANS Elections and Nominations Committee (Chair)
2019-2020	CFANS Faculty Development Committee
2020-2023	Newman Teaching Award Selection Committee
2021	Chaired search committee for Assistant Area Unit Leader of the Minnesota Cooperative Fish and Wildlife Research Unit
2015-2019	Reviewer of Minnesota Agricultural Experiment Station Proposals (n = 5)
2018	Search committee for Tribal Natural Resources Faculty Position
2018	Minnesota Aquatic Invasive Species Center Directors Project Review Committee
2017-2018	Search committee, Assistant Professor of Forest Biometrics Measurements, Modeling, Department of Forest Resources
2014	Reviewer of Animal Health and Hatch Formula Fund Proposals, (reviewed 16 proposals, lead reviewer on 2 of these).

Departmental Service

2017-2021, 2025-2026	Long-range Planning Committee (FCC)
2024, 2025, 2026	Faculty Review Committee
2021, 2025-2026	Scholarship Committee
2024-2025	Peer Review of Teaching Committee
2022-2024	Major Coordinator/Director of Undergraduate Studies
2022-2024	Honors Representative
2020	Search Committee for new Department Head
2014-2016, 2022-	Curriculum Committee (Chair 2013-2014, 2016-2017)
2014-2015	Kolshorn Lecture Committee
2009-2013	Wally Dayton Scholarship Review

Graduate Programs

2018	Conservation Sciences, Written Preliminary Exam Committee
2017-2020	Conservation Sciences, Wildlife Track Coordinator
2017-2021	Conservation Sciences Advisory Committee
2017-2019	Conservation Sciences, Reviewer of Applicants for Doctoral Dissertation Fellowship
2014-2025	Natural Resources Science and Management, Reviewed applicants and student degree programs

Professional Service

- Biometrics Working Group of The Wildlife Society, Past Chair (2019), Chair (2018), Chair elect (2017), Board Member (2005)
- American Statistical Association, MN Twin Cities Chapter: President (2006), President Elect (2005)

- Adhoc reviewer for 58 journals
- External reviewer of 13 promotion and tenure dossiers at other institutions
- Grant reviewer for Swiss National Science Foundation Proposal, National Park Service Proposal, The Leverhulme Trust, Nevada Agricultural Experiment Station, Alberta Conservation Association Research Grants Program, National Geographic Society Grants
- Reviewer, Book Proposal, Oxford University Press

Other service

- Search committee for hiring wildlife biometrician at the State of Minnesota, 2013-2014