

# Joshua North

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## EDUCATION

**University of Missouri Columbia**, Columbia, Missouri. (Anticipated Graduation Summer 2022)

**Ph.D.**, STATISTICS

Advisors: Dr. Christopher K. Wikle and Dr. Erin M. Schliep

**University of Colorado Boulder**, Boulder, Colorado. (2017)

**B.S.**, APPLIED MATH

**B.A.**, ECOLOGY AND EVOLUTIONARY BIOLOGY

**Minor**, STATISTICS

## PUBLICATIONS

**North, J.**, Stanley, Z., Kleiber, W., Deierling, W., Gilleland, E., & Steiner, M. (2020). “A statistical approach to fast nowcasting of lightning potential fields”. *Advances in Statistical Climatology, Meteorology, and Oceanography*, 2(6), 79–90.

<https://doi.org/https://doi.org/10.5194/ascmo-6-79-2020>

**North, J. S.**, Schliep, E. M., & Wikle, C. K. (2020). “On the spatial and temporal shift in the archetypal seasonal temperature cycle as driven by annual and semi-annual harmonics”. *Environmetrics*, 1–16. <https://doi.org/10.1002/env.2665>

## WORKING PAPERS

**North, J. S.**, & Schliep, E. M. (2021). “Accounting for sampling bias in joint species distribution models”. *Unpublished manuscript*.

**North, J. S.**, Wikle, C. K., & Schliep, E. M. (2021). “DEtection: A bayesian approach to data-driven discovery of dynamic equations”. *Manuscript submitted for publication*.

## TEACHING

**University of Missouri Columbia**, Columbia, Missouri.

### *Course Development*

STAT 4330/7330 - Methods in Sports Analytics I

STAT 4340/7340 - Methods in Sports Analytics II

### ***Graduate Instructor***

STAT 4340/7340 - Methods in Sports Analytics II (S20, S21)

STAT 4330/7330 - Methods in Sports Analytics I (F20, F21)

STAT 3500 - Introduction to Probability and Statistics II (F18)

STAT 2500 - Introduction to Probability and Statistics I (F17, S18)

**University of Colorado Boulder**, Boulder, Colorado.

### ***Undergraduate Teaching Assistant***

APPM 3570 - Applied Probability (S16)

APPM 1235 - Pre-Calculus for Engineers (F15)

### **TALKS/POSTERS**

*Data-Driven Approach to Nonlinear Dynamic Equation Discovery*, Joint Statistical Meeting; August 9, 2021. (Talk)

*On the Spatial and Temporal Shift in the Archetypal Seasonal Temperature Cycle as Driven by Annual and Semi-Annual Harmonics*, Joint Statistical Meeting; August 4, 2020. Invited. (Talk)

*Accuracy of Radial Support Vector Classifiers; Effect of Imbalanced Training Sets on Varying Minority Class Prevalence*, Boulder, Colorado; May 1, 2017. (Poster)

*Creating Reproducible Research*, Boulder, Colorado; March 21, 2017. (Talk)

### **MEMBERSHIP/SERVICE**

Instructor and VIP Consultant for University of Missouri DataFest (2018-Present)

American Statistical Association (ASA) member

University of Missouri Statistics Graduate Student Association Vice-President (2017-2018)

University of Missouri Statistics Graduate Student Association Treasurer (2018-2019)

### **COMPUTER SKILLS**

**Statistical/Mathematical:** R, Julia, PYTHON, C++, MATLAB, SAS

**Applications:** L<sup>A</sup>T<sub>E</sub>X, GITHUB, RShiny, EXCEL