

## Post Doctoral Scholar – Estimation and Prediction of Pheasant Abundance

*Ohio State University (State)*

### Details

Posting:

[https://osu.wd1.myworkdayjobs.com/OSUCareers/job/Columbus-Campus/Post-Doctoral-Scholar\\_R106035-1](https://osu.wd1.myworkdayjobs.com/OSUCareers/job/Columbus-Campus/Post-Doctoral-Scholar_R106035-1)

Application Deadline:

06/21/2024

Published:

05/29/2024

Starting Date:

between 8/15/2024 and 1/1/2025

Ending Date:

before 6/30/2027

Hours per Week:

40

Salary:

\$61,008 to \$65,000 per year

Education Required:

Doctorate

Experience Required:

none

Location:

2020 Coffey Road (Columbus, Ohio)

Tags:

Faculty / Post-Doc Appointments

### Description

The Peterman Lab at Ohio State University, in School of Environment and Natural Resources, is recruiting a Postdoctoral Researcher to work on a multiyear project supported by Pheasants Forever. The ultimate goal is to develop flexible tools to better target future conservation reserve program and other habitat investments in ways that maximize pheasant benefits; the proximate goal, and focus of the successful applicant, is to develop models upon which such tools can be based. This includes models that reliably estimate the effect of habitat variation at multiple spatial scales on local pheasant abundance, as well as models that accurately

predict local pheasant abundance based on multi-scale habitat and other environmental covariates. Data to be modeled will be provided by partnering state wildlife agencies in North Dakota, Kansas, Wisconsin, and Ohio.

**This work will include:**

- Development of multiscale habitat models to estimate abundance
- Use and development of machine learning algorithms to predict pheasant abundance
- Estimation of functional connectivity across modeled landscapes
- Development of application programming interfaces for sharing model results and making them accessible to end users.

**Required Qualifications**

- Must have completed a PhD by the start date
- Advanced coding skills in R
- Experience with spatial data analysis and modeling
- Data management and analysis of large datasets
- An established record of peer reviewed publication
- Excellent interpersonal skills; strong written and verbal communication skills

**Preferred Qualifications**

- Demonstrated experience with machine learning algorithms, especially convolutional neural networks
- Demonstrated experience with spatial connectivity modeling
- Demonstrated experience developing application programming interfaces (R packages, Shiny Apps, etc.)
- Demonstrated experience with species distribution modeling
- Experience with hierarchical models generally, including models that account for imperfect detection
- Interest in working on applied research topics of relevance to land managers
- Experience communicating research findings to non-technical audiences

Contact

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