# Alex Fox

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Marx, Oberlin College.

Oberlin, OH

Study of a Rigorous Generalization of the Aubry-André Harper Quantum Hall Effect Model, Summer Research Project, Lab of Professor Christoph

#### Research Interests

- First-Principles Agricultural Sustainability

  - **Biophysics** Disturbance Response
    - Plant Physiology
    - Ecological Modeling

**OTHERS** • Data Science

## Teaching Experience

#### Teaching Assistant

2021

Forest Management, University of Wyoming, Laramie, WY.

SUPERVISOR Professor Scott Miller

Principles of ecological forest management and sustainable silviculture.

2020

Water Resources Seminar, University of Wyoming, Laramie, WY.

SUPERVISOR Professor Scott Miller

Building research and presentation skills in a class focused around global water resource issues.

2018

Energy Science & Technology, Oberlin College, Oberlin, OH.

SUPERVISOR Professor John Scofield

Teaching quantitative reasoning and critical thinking skills through the topic of modern energy generation policy and technology.

## **Private Teaching**

2017

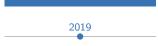
Physics, Mathematics, Writing, Research Skills.

Sporadic private tutoring to high school, college, and graduate students



## Participation In Events

Ohio College Summer Research Symposium, Ohio Wesleyan University, Delaware, OH.



## Other Professional Experience

Field Technician, Lab of Professor Brent Ewers, University of Wyoming, Laramie, WY.

Studying post-fire and -beetle disturbance recovery in the Snowy Range, WY. Help to maintain the Chimney Park Ameriflux site, perform data QA/QC, and performed field data collection.

2019

Research Assistant, Cooperative Institute for Satellite and Earth System Studies, College Park, MD, Studying crop evapotranspiration using satellite remote sensing models.

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Research Intern, The Land Institute, Salina, KS.

Assisted in sustainable agriculture research, focusing on the development of perennial polycultures. Performed field work and data collection for plant breeding programs

## **Publications**

[Owen et al., 2019]

Owen, R., **Fox, Alex S.**, Freiberg, J. A., and Jacques, T. P. (2019). Black hole spin axis in numerical relativity. *Phys. Rev. D*, 99:084031.

#### Talks and Presentations

2017

The Precession and Nutation of Dynamical Black Holes, Ohio College Summer Research Symposium, Ohio Wesleyan University, Delaware.
OH

## Grants and Funding

2021

**2021 Western SARE Professional + Producer Grant**, *Kernza® in Wyoming: Evaluating Perennial Grains to Revitalize Wyoming Dryland Agriculture*, PI: Professor Jay Norton, University of Wyoming, Project #OW21-363.

Award \$74,804

2021

**2021 Grant A Harris Fellowship**, Kernza® in Wyoming: Modeling Water/Nutrient Cycling and Yield for a Perennial Grain.

Award \$9,614

### Pending

2021

**2021** Wyoming NASA Space Grant Consortium Graduate Research Fellowhip, Evaluating Agricultural Sustainability Using a First-Principles Biophysical Model.