

Charles D. Minsavage-Davis
Doctoral Research Assistant

Department of Biology
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Appointments

2022 – **Doctoral Research Assistant**, Department of Biology, Georgetown Univ.
2021 **Field and Laboratory Research Assistant**, Department of Biology, Georgetown Univ.
2020 – 21 **Graduate Teaching Assistant**, School of Environment and Natural Resources, Ohio State Univ.
2019 – 20 **Patrick S. Osmer Research Fellow**, School of Environment and Natural Resources, Ohio State Univ.
2018 **SROP Research Associate**, Big Ten Academic Alliance, Ohio State Univ.

Education

2027 **Ph.D.** Georgetown Univ.
Biology
Advisor: Gina Wimp Committee: TBD
2021 **M.S.** Ohio State Univ.
Environment and Natural Resources
Advisor: G. Matt Davies Committee: Stephen Matthews, Roger Williams
2018 **B.S.** Ohio State Univ.
Environmental Science, Ecological Restoration Specialization
Academic Advisor: Brian Slater Research Advisor: G. Matt Davies

Publications *First or shared first author

4. **Minsavage-Davis, C.D.***; Davies, G.M.; et al. 2022. Fuel management and traditional managed burning reduce potential landscape-scale rates of spread and fireline intensities in northern-European heathlands. **In preparation.**
3. **Minsavage-Davis, C.D.***; Davies, G.M.; Haugum, S.V.; Velle, L.G.; Vandvik, V. 2022. Generation and evaluation of fuel models for vegetation fire behavior prediction in northern-European heathlands. *iForest*, **In preparation.**
2. Rippel, T.M.*; **Minsavage-Davis, C.D.***; Shirey, V.; Wimp, G.M. 2022. Grass is always greener: remote sensing and machine learning reveal severe and enigmatic loss of a salt marsh foundation species. *Estuarine, Coastal and Shelf Science*, **In review.**
1. **Minsavage-Davis, C.D.***; Davies, G.M. 2022. Evaluating the Performance of Fire Rate of Spread Models in Northern-European *Calluna vulgaris* Heathlands. *Fire*, 5, 46. <https://doi.org/10.3390/fire5020046>

Awards

2019 **Patrick S. Osmer Fellowship**, Ohio State Univ.
2018 **SROP Scholar**, Big Ten Academic Alliance
2017 **VISTA Scholar**, AmeriCorps

Research experience

AIC model set analysis	laboratory methods synthesis	public speaking
ArcGIS	laboratory analysis	QGIS
equipment handling	linear model analysis	significance testing
field planning	multivariate analysis	technical writing
intense field work	public presentation	R

Research presentations

- 2022 **The grass is always greener: remote sensing and machine learning reveal severe and enigmatic loss of a salt marsh foundation species**, ESA Annual Meeting
- 2020 **Analysis of Spatial, Age, and Disturbance Patterns of a Forested Plot in Fairfield County Ohio**, City of Columbus Metro Parks
- 2020 **Impact of Fuel Management Strategies on Potential Fire Behavior in the Heathlands and Moorlands of North-West Europe**, SER Midwest Chapter Meeting
- 2019 **A Physical and Chemical Stratigraphy of Peat Deposits in Flatiron Bog, northeast Ohio**, SER Midwest Chapter Meeting
- 2018 **Water and Soil Analysis of Recurrent Wetlands to use as Guidance for Emerging Areas at Scioto Grove Metro Park in Central Ohio**, City of Columbus Metro Parks
- 2018 **Analysis of Hydrological Impairment at Quarry Trails Metro Park**, City of Columbus Metro Parks
- 2018 **A Physical and Chemical Stratigraphy of Peat Deposits in Flatiron Bog, northeast Ohio**, SROP Poster Symposium
- 2017 **Urban Soil Restoration at a Vacant Lot in Columbus, Ohio**, City of Columbus Land Redevelopment Office

Teaching experience

- 2021 **Lab Section Leader for Introduction to Spatial Information (GIS)**, Ohio State Univ.
- 2020 **Field Lecturer for Biology and Identification of Woody Forest Plants**, Ohio State Univ.

Student Mentoring

- 2022 Cathilyn McIntosh
- 2022 Billie Maguire
- 2022 Jean-Paul Nguyen

Other extension research projects

- 2020 **Burn Severity Analysis of a 5,000-acre Wildfire in Sutherland County, Scotland**
- 2018 **Marshland Habitat Gradients on Avian Species Richness in Western Lake Erie**

Other work experience

- 2019 **R&D Chemistry Technician**, Sherwin-Williams
- 2017 – 18 **Undergraduate Researcher**, Ohio State Univ.
- 2017 **Urban Farm Associate**, AmeriCorps at Franklinton Farms

Training and professional development

- 2022 – 27 **Apprenticeship in Teaching Program**, Georgetown Univ.
- 2019 **S130 and S190 Wildland Firefighter Certification**, National Wildfire Coordinating Group
- 2013 **Leadership Development Conference**, Ohio Univ.

Professional memberships

- 2022 – **Ecological Society of America**
- 2022 – **Georgetown Alliance of Graduate Employees**, American Federation of Teachers
- 2017 – **Society for Ecological Restoration**

Service

- 2019 – 21 **Professional Mentor for Underrepresented Students**, Ohio State Univ.

Locational experience

United States: District of Columbia, Maryland, New Jersey, Ohio, Virginia

International: Norway, United Kingdom (England, Scotland)

Languages

English (native), Norwegian (early proficiency), Spanish (late proficiency)