

**Charles D. Minsavage-Davis**  
Doctoral Research and Teaching Assistant

Department of Biology  
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### **Appointments**

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- 2022 – **Doctoral Research and Teaching 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**

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- 2027 **Ph.D.** Georgetown Univ.  
Advisor: Gina Wimp Committee: Matthew Hamilton, Martha Weiss  
2021 **M.S.** Ohio State Univ.  
Advisor: G. Matt Davies Committee: Stephen Matthews, Roger Williams  
2018 **B.S.** Ohio State Univ.  
Academic Advisor: Brian Slater Research Advisor: G. Matt Davies

### **Publications** <sup>\*First or shared first author</sup>

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5. **Minsavage-Davis, C.D.\***; Davies, G.M.; et al. 2023. Fuel management and traditional managed burning reduce potential landscape-scale rates of spread and fireline intensities in northern-European heathlands. **In preparation.**  
4. **Minsavage-Davis, C.D.\***; Davies, G.M.; Haugum, S.V.; Velle, L.G.; Vandvik, V. 2023. Generation and evaluation of fuel models for vegetation fire behavior prediction in northern-European heathlands. *iForest*, **In preparation.**  
3. Rippel, T.M.\*; **Minsavage-Davis, C.D.\***; Shirey, V.; Wimp, G.M. 2022. Simple machine learning with aerial imagery reveals severe loss of a salt marsh foundation species. *Estuaries and Coasts*, **In review.**  
<https://doi.org/xx.xxxx/xxxxxxxxxxxx>  
2. **Minsavage-Davis, C.D.\***; Wimp, G.M.; LeRoy, C.J. 2023. Spatial Habitat Structure Assembles Willow-Dependent Communities across the Primary Successional Watersheds of Mount St. Helens, USA. *Forests*, 14, 322.  
<https://doi.org/10.3390/f14020322>  
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**

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

### **Research experience**

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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***

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- 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***

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- 2022 **Experimental Design Teaching Assistant**, Georgetown Univ.
- 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***

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- 2023 Philip Thomson
- 2022 Urooj Ahmed
- 2022 Mary Nguyen
- 2022 Nouran Alim
- 2022 Shelby Benz
- 2022 Jenna Antonacci
- 2022 Vanessa Amezcua
- 2022 Seamus Caslin
- 2022 Tyller Mensa
- 2022 Kevin Moreno
- 2022 Dawson Hillyer
- 2022 Jamyson Smith
- 2022 Cathilyn McIntosh
- 2022 Billie Maguire
- 2022 Jean-Paul Nguyen

### ***Other extension research projects***

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- 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***

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- 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***

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- 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***

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

### ***Service***

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

### ***Locational experience***

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United States: District of Columbia, Maryland, New Jersey, Ohio, Virginia, Washington State  
International: Norway, United Kingdom (England, Scotland)

### ***Languages***

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