

## Charles D. Minsavage-Davis

Doctoral Research and Teaching Assistant  
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Georgetown University (Univ.)  
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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*.  
<https://doi.org/10.1007/s12237-023-01192-z>  
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 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

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### ***Teaching experience***

- 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.

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### ***Student Mentoring***

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

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### ***Training and professional development***

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

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### ***Professional memberships***

- 2022 – **Lepidopterists' Society**
- 2022 – **Ecological Society of America**
- 2017 – **Society for Ecological Restoration**

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### ***Service***

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

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### ***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**

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### ***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

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### ***Locational experience***

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

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### ***Languages***

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