

Charles D. Minsavage-Davis

Doctoral Research and Teaching Assistant
<https://cdmdenvi.github.io/R4TS/home.html>
cd1231@georgetown.edu

Department of Biology
Georgetown University (Univ.)
501 Regents Hall, 6411 Tondorf Rd
Washington, DC 20007

Education

- 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

External Grants and Fellowships

- 2023 **Grant in Aid of Research**, Sigma Xi (Pending)

Internal Grants and Fellowships

- 2019 **Patrick S. Osmer Graduate Research Fellowship**, Ohio State Univ. (\$25,800)
- 2018 **Summer Research Opportunities Program (SROP)**, Big Ten Academic Alliance (\$4,000)

Publications^{*First or shared first author}

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. 2023. 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>

Research presentations

- 2023 **Spatial Habitat Structure Assembles Willow-Dependent Communities across the Primary Successional Watersheds of Mount St. Helens, USA**, ESA Annual Meeting, Contributed Oral Session
- 2023 **Clonal structure and landscape genetics of Long Island, NY populations of the salt marsh plant *Spartina patens***, ESA Mid-Atlantic Region Meeting, Poster
- 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, Poster
- 2020 **Analysis of Spatial, Age, and Disturbance Patterns of a Forested Plot in Fairfield County Ohio**, City of Columbus Metro Parks, Professional Talk
- 2020 **Impact of Fuel Management Strategies on Potential Fire Behavior in the Heathlands and Moorlands of North-West Europe**, SER Midwest Chapter Meeting, Professional Talk
- 2019 **A Physical and Chemical Stratigraphy of Peat Deposits in Flatiron Bog, northeast Ohio**, SER Midwest Chapter Meeting, Poster
- 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, Professional Talk

- 2018 **Analysis of Hydrological Impairment at Quarry Trails Metro Park**, City of Columbus Metro Parks, Professional Talk
- 2018 **A Physical and Chemical Stratigraphy of Peat Deposits in Flatiron Bog, northeast Ohio**, SROP Symposium, Poster and Contributed Oral Session
- 2017 **Urban Soil Restoration at a Vacant Lot in Columbus, Ohio**, City of Columbus Land Redevelopment Office, Professional Talk

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.

Service

- 2022 – 23 **Contract Bargaining Team Member**, Georgetown Alliance of Graduate Employees (GAGE)
- 2022 **Lead Organizer for Solidarity, Education, and Activism**, GAGE
- 2019 – 21 **Professional Mentor for Underrepresented Students**, Ohio State Univ.

Student Mentoring

- 2023 Camille Gaston, Ashley Jeong, Philip Thomson
- 2022 Urooj Ahmed, Nouran Alim, Vanessa Amezcua, Jenna Antonacci, Shelby Benz, Seamus Caslin, Billie Maguire, Cathilyn McIntosh, Jean-Paul Nguyen, Mary Nguyen

Appointments

- 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

Awards

- 2018 **SROP Scholar**, Big Ten Academic Alliance
- 2017 **VISTA Scholar**, AmeriCorps

Training and professional development

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

Professional memberships

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

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**

Locational experience

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