Charles D. Minsavage-Davis

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

Department of Biology Georgetown University 501 Regents Hall, 6411 Tondorf Rd Washington, DC 20007

Education

2027 **Ph.D.** Georgetown University

Advisor: Gina Wimp Committee: Matthew Hamilton, Martha Weiss, John Lill

2021 M.S. Ohio State University

Advisor: G. Matt Davies Committee: Stephen Matthews, Roger Williams

2018 **B.S.** Ohio State University

Academic Advisor: Brian Slater Research Advisor: G. Matt Davies

External Grants and Fellowships*Applied and pending

2024 **Research Award***, Washington Biologists' Field Club (\$3,000)

2024 Ron Leuschner Memorial Fund*, The Lepidopterists' Society (\$1,000)

2024 **Lewis and Clark Fund*,** American Philosophical Society (\$5,000)

Internal Grants and Fellowships

- 2023 GradGov GSAS Research Grant, Georgetown University (\$350)
- 2019 Patrick S. Osmer Graduate Research Fellowship, Ohio State University (\$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. 2024. 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. 2024. Generation and evaluation of fuel models for vegetation fire behavior prediction in northern-European heathlands. *iForest*, **In review**.
- 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

Select Research presentations*Presenting author

- 2024 Assessing the impacts of vertical forest structure on a common insect pest*, 2024 Spotlight on National Park Resources, Contributed Oral Session
- 2023 Assessing the impacts of vertical forest structure on a common insect pest*, EntSoc Annual Meeting, Contributed Oral Session
- 2023 How does local adaptation vary with diet breadth? A meta-analysis of local adaptation in specialist versus generalist herbivorous insects, EntSoc Annual Meeting, Contributed Oral Session
- 2023 Dietary parental effects in a generalist herbivore, EntSoc Annual Meeting, Contributed Oral Session
- 2023 **Understanding the scope of diet breadth in a generalist herbivore,** EntSoc Annual Meeting, Contributed Oral Session
- 2023 Spatial Habitat Structure Assembles Willow-Dependent Communities across the Primary Successional Watersheds of Mount St. Helens, USA*, ESA General 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 General 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, Contributed Oral Session
- 2019 A Physical and Chemical Stratigraphy of Peat Deposits in Flatiron Bog, northeast Ohio*, SER Midwest Chapter Meeting, Poster

Teaching experience

- 2024 Evolutionary Processes Teaching Assistant, Georgetown University
 2022 23 Experimental Design Teaching Assistant, Georgetown University
 2021 Instructor of Record General Environmental Science I. Northern Virginia Community College
- Instructor of Record General Environmental Science I, Northern Virginia Community College
 Lab Section Leader for Introduction to Spatial Information (GIS), Ohio State University
- 2020 Field Lecturer for Biology and Identification of Woody Forest Plants, Ohio State University

Scientific Peer Review

- 2024 Landscape Ecology, Springer
- 2024 International Journal of Wildland Fire, CSIRO
- 2023 Life & Environment, PeerJ

Service

- 2023 Student Ambassador Program, Georgetown University
- 2022 23 Contract Bargaining Team Member, Georgetown Alliance of Graduate Employees
- 2022 Lead Organizer for Solidarity, Education, and Activism, Georgetown Alliance of Graduate Employees
- 2019 21 Professional Mentor for Underrepresented Students, Ohio State University

$\textbf{Student Research Mentoring}^{*Independent \ research \ presentations}$

- 2023 Tallulah Bowden*, Camille Gaston*, Luke Halpern, Ashley Jeong*, Carly Rauh, Philip Thomson, Sophia Trone
- 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 University
- 2021 Adjunct Professor, Environmental Science, Northern Virginia Community College
- 2021 Field and Laboratory Research Assistant, Department of Biology, Georgetown University
- 2020 21 Graduate Teaching Assistant, School of Environment and Natural Resources, Ohio State University
- 2019 20 Patrick S. Osmer Fellow, School of Environment and Natural Resources, Ohio State University
- 2018 SROP Research Associate, Big Ten Academic Alliance

Awards

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

Training and professional development

- 2023 **Entering Mentoring Program,** Georgetown University / CIMER Project
- 2022 27 Apprenticeship in Teaching Program, Georgetown University
- 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

Locational experience

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