## 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: Matthew Hamilton Committee: Shweta Bansal, et al.

2021 M.S. Ohio State University

Advisor: G. Matthew 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\*Pending

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

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 press**.
- 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.; et al. 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
- 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
2021	Lab Section Leader for Introduction to Spatial Information (GIS), Ohio State University

Field Lecturer for Biology and Identification of Woody Forest Plants, Ohio State University

# Scientific Peer Review

2024	Landesona Feelogy Cari	
2024	Landscape Ecology, Spri	nger

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

### Service

2020

- 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

# 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)