Charles D. Minsavage-Davis
Doctoral Research and Teaching Assistant
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Department of Biology
Georgetown University
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Education

2027 **Ph.D.** Georgetown University
Advisor: Matthew Hamilton   Committee: Shweta Bansal, Rodney Dyer, and Sivan Leviyang
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. Matthew Davies

External Grants and Fellowships

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

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. Development and evaluation of generalized fuel models for predicting fire behaviour in northern European heathlands. *iForest,* 17, 109-119. https://doi.org/10.3832/ifor4394-017

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*, 46, 1110-1122. https://doi.org/10.1007/s12237-023-01192-z

2. **Minsavage-Davis, C.D.***; Garthwaite, I.J.; Fisher, M.D.; Leigh, A.; Ramstack Hobbs, J.M.; Claeson, S.M.; 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 AU	**Genetics Teaching Assistant**, Georgetown University
2024 SP	**Evolutionary Processes Teaching Assistant,** Georgetown University
2022 – 23 AU	**Experimental Design Teaching Assistant,** Georgetown University
2021 AU	**Instructor of Record – General Environmental Science I,** Northern Virginia Community College
2021 SP	**Lab Section Leader for Introduction to Spatial Information (GIS)**, Ohio State University
2020 SU	**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

*Student Research Mentoring**Independent research presentations*

2024 Sean Cole, Eli Oyler, Valerie Ng, Annika Peterson, Clare Reif, Jack Swanner

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)