Mike Mahoney

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Education

State University of New York College of Environmental Science and Forestry (SUNY-ESF) *Syracuse, New York*

Doctor of Philosophy in Environmental Science (Area of Study: Coupled Natural and Human Systems) *August 2020 - Present*

State University of New York College of Environmental Science and Forestry (SUNY-ESF) *Syracuse, New York*

Bachelor of Science with Honors magna cum laude in Forest Ecosystem Science (GPA: 3.723) *December 2018*

- Thesis: Beaver Foraging Preferences and Impacts on Forest Structure in New York's Adirondack Mountains

Publications

2020 **Mahoney, M. J.,** and Stella, J. C. 2020. Stem size selectivity is stronger than species preferences for beaver, a central place forager. Forest Ecology and Management 475 118331. https://doi.org/10.1016/j.foreco.2020.118331

Awards and Honors

2018 Robin Hood Oak Award for Academic Excellence
2018 Robert M. Hicks Award for Academic Achievement
2018 ESF Career Fellowship
2017 Outstanding Student Award for Accomplishments in Field Ecology and Dendrology
2016 Tutor of the Semester

Teaching Experience

State University of New York College of Environmental Science and Forestry

Introduction to Geospatial Information Technologies. Teaching Assistant. Fall 2018
Watershed Ecology and Management. Course Grader. Fall 2018
General Biology I: Organismal Biology and Ecology. Teaching Assistant. Fall 2016

Research Experience

2017-2020 **Stella Riparian and Stream Ecology Laboratory**
Independent Researcher

2017-2019 **Yanai Forest Ecosystem Science Laboratory**
Research Intern

Conference Activity

Contributed Talks

2018 **Beaver Foraging Preferences and Impacts on Forest Structure in the Adirondack Mountains of New York.** Mahoney, M. J., and Stella, J. C. Forest Ecosystem Monitoring Collective Conference, Burlington, VT.

2018 **Beaver Foraging Preferences and Impacts on Forest Structure in the Adirondack Mountains of New York.** Mahoney, M. J., and Stella, J. C. Rochester Academy of Sciences Fall Scientific Paper Session, Geneseo, NY.

Poster Presentations

2019 **Nutritional Impacts on Invasive Beech Scale Quantification in Beech Bark Disease Aftermath Forests.** Dillon, G., Mahoney, M. J., Chase, S., and Johnston, M. New York Society of American Foresters Annual Meeting, Syracuse, NY.

2018 **Impacts of Beaver on Forest Structure and Composition.** Mahoney, M. J., Zevin, R., and Stella, J.C. Spotlight on Student Research, Syracuse, NY.

2018 **Impacts of Fertilization on Causal Organisms of Beech Bark Disease.** Mahoney, M. J., Leimanis, V., Desrochers, M. L., Giambona, B., Johnston, M. T., Yanai, R. D., and Dillon, G. A. Spotlight on Student Research, Syracuse, NY.

2017 **An Investigation of Nutritional Effects on Beech Bark Disease Causal Organisms.** Lasser, G. A., Johnston, M., Mahoney, M., Leimanis, V., and Stoodley, J. Forest Ecosystem Monitoring Collective Conference, Burlington, VT.

2017 **An Investigation of Nutritional Effects on Beech Bark Disease Causal Organisms.** Lasser, G. A., Johnston, M., Mahoney, M., Leimanis, V., and Stoodley, J. Poster session presented at the Rochester Academy of Sciences Fall Scientific Paper Session, Rochester, NY.

Community Involvement and Outreach

2019-2020 **Code for Boston - Clean Slate Project.** Data Scientist and Project Manager (Volunteer).
Project working with Greater Boston Legal Society to advance criminal justice reform efforts.

Professional Experience

2019-2020 **Analyst, Forecasting and Analytics**.
Wayfair, Inc. Boston, MA.

2018 **Beaver Impact Assessment Intern**.
New York State Department of Environmental Conservation. Albany, New York.

Software Development

2021 **terrainr**: Lead developer
Retrieve Data from the USGS National Map and Transform it for 3D Landscape Visualizations.

2020 **heddlr**: Lead developer
Tools to enable functional programming workflows for dynamic R Markdown document generation.

2020 **spacey**: Lead developer
USGS and ESRI data access for beautiful landscape visualization.

Affiliations

2021 - Present **The Carpentries**. Instructor in good standing