David Fastovich

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Appointments

2022 – Present **Postdoctoral Scholar**
Department of Earth and Environmental Sciences, Syracuse University
Syracuse, New York
Advisor: Tripti Bhattachrya

Education

2018 – 2022 **Ph.D. in Geography**
Thesis: *Patterns, mechanisms, and legacies of abrupt climate change: examining the Younger Dryas in eastern North America*
University of Wisconsin—Madison
Madison, WI
Advisor: John (Jack) W. Williams

2016 – 2018 **M.S. in Geography**
Thesis: *Temperature controls on no-analog community establishment in the Great Lakes Region*
University of Wisconsin—Madison
Madison, WI
Advisor: John (Jack) W. Williams

2012 – 2016 **B.S in Environmental Science and Management** *with honors*
University of California, Davis
Academic Emphasis: Climate Change and Air Quality
Minor: Biological Sciences
Davis, CA

Research interests

Paleoclimatology, paleoecology, organic geochemistry, climate dynamics

Publications

in prep Detecting legacies of millennial scale climate oscillations on modern biodiversity: lessons from a proxy-model comparison
David Fastovich, David P. Helmers, Volker C. Radeloff, Benjamin Zuckerberg, and John W. Williams. *Philosphical Transactions of the Royal Society B.*

in review Spatial fingerprints and mechanisms of precipitation and temperature changes during the Younger Dryas in eastern North America
David Fastovich, James M. Russell, Shaun A. Marcott, John W. Williams. *Quaternary Science Reviews.*

2021 More than one way to kill a spruce forest: The role of fire and climate in the late-glacial termination of spruce woodlands across the southern Great Lakes.
Allison M. Jensen, **David Fastovich**, Benjamin I. Watson, Jacqueline L. Gill, Stephen T. Jackson, James M. Russell, Joseph Bevington, Katherine Hayes, Katherine B. Lininger, Claire Rubbelke, Grace C. Schellinger, John W. Williams *Journal of Ecology.* 109(1), 459-47. doi:10.1111/1365-2745.13517

2021 Spatial fingerprint of Younger Dryas cooling and warming in eastern North America.
David Fastovich, James M. Russell, Stephen T. Jackson, Teresa R. Kruase, Shaun A. Marcott, John W. Williams. *Geophysical Research Letters.* 47(22), e2020GL090031.doi:10.1029/2020GL090031

2020 Deglacial temperature controls on no-analog community establishment in the Great Lakes Region.
David Fastovich, James M. Russell, Stephen T. Jackson, John W. Williams. *Quaternary Science Reviews.* 234, 106245. doi:10.1016/j.quascirev.2020.106245

Invited Talks

2022 **American Quaternary Association Biennial Meeting**
Spatial fingerprint and mechanisms of Younger Dryas warming and wetting in eastern North America.

2021 **Woods Hole Oceanographic Institution**
Spatial fingerprint and mechanisms of Younger Dryas warming and wetting in eastern North America.

Awards and Honors

2021 Presidential Management Fellowship Finalist
Fellowship created by Executive Order to bring promising early-career scientists into public policy development and management. Awarded to 1,100 promising early-career scientists from 8,065 applicants.

2021 EarthCube Early Career Travel Grant

2021 Department of Geography Trewartha Travel Grant

2021 University of Wisconsin Graduate School Student Conference Travel Award

2021 Department of Geography Olmstead Award for Outstanding Publication
Awarded annually to two individuals in recognition of impactful publication within the field of Geography.

2020 College of Letters and Science Teaching Fellow Award
Awarded annually to 15 Teaching Assistants among all within the College of Letters and Science in recognition of excellent teaching, facilitation, and communication.

2020 Reid Bryson Poster Competition Runner Up

2019 Department of Geography Trewartha Travel Grant

2019 University of Wisconsin Graduate School Student Conference Travel Award

2015 John M. Long Endowed Scholarship

Presenations and Posters

2022 Spatial fingerprints and mechanisms of temperature and precipitation changes during the Younger Dryas in eastern North America.
David Fastovich, James M. Russell, Shaun A. Marcott, John W. Williams.
American Geophysical Union. Poster.

2021 Spatial fingerprints and mechanisms of temperature and precipitation changes during the Younger Dryas in eastern North America.
David Fastovich, James M. Russell, Shaun A. Marcott, John W. Williams.
Geological Society of America. Presenation.

2020 Mechanisms for a spatial fingerprint of Younger Dryas warming in the southeastern United States.
David Fastovich, James M. Russell, Shaun A. Marcott, John W. Williams.
American Geophysical Union. Virtual Poster.

2019 Spatial fingerprint of temperature changes in eastern North America during the Younger Dryas.
David Fastovich, James M. Russell, Stephen T. Jackson, Teresa R. Kruase, Shaun A. Marcott, John W. Williams.
American Geophysical Union. Poster.

2019 Spatial fingerprint of temperature changes in eastern North America during the Younger Dryas.
David Fastovich, James M. Russell, Stephen T. Jackson, Teresa R. Kruase, Shaun A. Marcott, John W. Williams.
International Union for Quaternary Research. Presentation.

2018 Spatial fingerprint of temperature changes in eastern North America during the Younger Dryas.
David Fastovich, James M. Russell, Stephen T. Jackson, Teresa R. Kruase, Shaun A. Marcott, John W. Williams.
American Geophysical Union. Poster.

2018 Abrupt deglacial temperature and vegetation changes reconstructed from brGDGT and pollen at Bonnet Lake, OH.
David Fastovich, James M. Russell, Stephen T. Jackson, John W. Williams.
Ecological Society of America. Presentation.

Research Experience

2016 – 2022 **Graduate Research Assistant**
John W. Williams - Paleoecology Lab
University of Wisconsin - Madison

2015 – 2016 **Undergraduate Research Assistant**
Andy Sih - Behavioral Ecology Lab
University of California, Davis

2015 – 2016 **Undergraduate Research Assistant**
Alan Hastings - Theoretical Ecology Lab
University of California, Davis

Teaching experience

Fall 2021 **Instructor, GEOG 335: Climatic Environments of the Past**
University of Wisconsin - Madison
Average student rating: 4.85/5.

Spring 2021 **Instructor, GEOG 206: The Global Environment**
Middlebury College
Average student rating: 4.85/5.

2017 – 2020, 2022 **Teaching Assistant, GEOG120: Introduction to the Earth System**
University of Wisconsin - Madison
Head Teaching Assistant (3 years) and Teaching Assistant (1 year).
Average student rating: 4.90/5.

2016 **Teaching Assistant, GEOG127: Physical Systems of the Environment**
University of Wisconsin - Madison
Average student rating: 4.6/5.

Service

Peer Reviewer: Proceedings of the National Academy of Sciences, Geophysical Research Letters, Journal of Quaternary Science

2018 – 2020 **Ecological Society of America Paleoecology Section Student Liaison**

Technical skills

Programming languages
Proficient in: R, Python
Familiar with: Julia, MATLAB, bash/zsh, CSS

Software
LaTeX, Git, Docker, Binder

Languages
English (fluent), Russian (fluent)