

KATHERINE C. GLOVER

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PROFESSIONAL POSITIONS

2017 – present **Postdoctoral Research Associate**, Climate Change Institute, University of Maine
2017 **Naturalist**, Sequoia Field Institute, Sequoia-Kings Canyon National Parks
2005-2011 **Science Teacher**, Earth Science, Environmental Science, Charlotte Catholic High School
2007-2010 **Senior Park Aide**, Henry W. Coe State Park, CA Dept. of Parks and Recreation
2003-2004 **Laboratory Supervisor**, Quaternary/Surface Processes Research Group, Univ. Cincinnati

EDUCATION

2016 **Ph.D. in Geography**

University of California – Los Angeles, Los Angeles, CA, USA
Dissertation: *Southern California climate and vegetation over the past 125,000 years from lake sequences in the San Bernardino Mountains*
Advanced to Candidacy: May 2014
Advisor: Dr. Glen M. MacDonald

2004 **M.S. in Geology**

University of Cincinnati, Cincinnati, OH, USA
Thesis: *Paleoenvironmental evidence for the Last Termination in two bog sequences and a regional network of sites from Ohio and eastern Indiana*
Advisor: Dr. Thomas V. Lowell

2001 **B.A. cum laude in Geology**

DePauw University, Greencastle, IN, USA
Senior Honors Thesis: *Geologic provenance of artifacts and raw materials in stone from the Elmalı Basin, southwest Turkey*
Advisor: Dr. Pedar W. Foss
Honor Scholar Program, Science Research Fellow, Phi Beta Kappa

PEER-REVIEWED PUBLICATIONS

in progress [9] **Glover, K. C.**, Chaney, A., Kirby, M. E., Patterson, W., MacDonald, G. M., (*in prep*) Southern California vegetation, wildfire and erosion response in a Southern California subalpine basin during the last glacial (120 – 15 ka). *Paleoceanography and Paleoclimatology*.

- [8] Koch, A., **Glover, K.C.**, Zambri, B., Thomas, E.K., Benito, X., Yang, J. (*under review*) Open data practices and challenges among early career paleo-researchers. *Past Global Changes Magazine*.
- [7] Kirby, M. K., Patterson, W. P., Ivanovici, L., Sandquist, D., **Glover, K. C.** (*in press*) Evidence for a large mid-Holocene flood event in the Pacific southwestern United States. *From Saline to Freshwater: The Diversity of Western Lakes in Space and Time*. Geological Society of America Special Publication.
- 2018 [6] Kirby, M., Heusser, L., Scholz, C., Ramezan, R., Anderson, M., Markle, B., Rhodes, E., Fantozzi, J., **Glover, K. C.**, Hiner, C., Price, B., Rangel, H., 2018. A late Wisconsin (32-10k cal a BP) history of pluvials, droughts, and vegetation in the Pacific southwest United States (Lake Elsinore, CA). *Journal of Quaternary Science*. DOI: 10.1002/jqs.3018
- 2017 [5] **Glover, K. C.**, 2017. Teaching California climate and vegetation change over long timescales: an NGSS unit using CalFlora and the Neotoma Paleocology Database. *The California Geographer* 56, 97 – 103.
Teaching module available at:
<http://serc.carleton.edu/neotoma/activities/174249.html>
- [4] **Glover, K. C.**, MacDonald, G. M., Kirby, M. E., Rhodes, E., Stevens, L., Silveira, E., Whittaker, A., and Lydon, S., 2017. Evidence for orbital and North Atlantic climate forcing in alpine Southern California between 125 – 10 ka from multi-proxy analyses of Baldwin Lake. *Quaternary Science Reviews* 167, 47-62. DOI: 10.1016/j.quascirev.2017.04.028
- 2011 [3] **Glover, K. C.**, Lowell, T. V., Wiles, G., Pair, D., Applegate, P., Hajdas, I., 2011. Deglaciation, basin formation, and post-glacial climate change from a regional network of sediment core sites in Ohio and Eastern Indiana. *Quaternary Research* 76, 401-410. DOI: 10.1016/j.yqres.2011.06.004
- 2009 [2] Lowell, T. V., Fisher, T. G., Hajdas, I., **Glover, K.**, Loope H., Henry, T., 2009. Radiocarbon deglaciation chronology of the Thunder Bay, Ontario area and implications for ice sheet retreat patterns. *Quaternary Science Reviews* 28, 1597-1607. DOI: 10.1016/j.quascirev.2009.02.025
- 2005 [1] Lowell, T. V., Fisher, T. G., Comer, G., Hajdas, I., Waterson, N., **Glover, K.**, Loope, H. M., Shaefer, J., Rinterknecht, V., Broecker, W., Denton, G., and Teller, J. T., 2005. Testing the Lake Agassiz Meltwater Trigger for the Younger Dryas. *Eos* 86 (40), 365-373. DOI: 10.1029/2005EO400001

FUNDING HISTORY

\$91,340 raised in competitive fellowships, grants, and travel funds.

Research Grants

<i>in review</i>	Principal Investigator: “Biogeography of Grand Kankakee Marsh, N. Indiana, U.S. over the past 5,000 years,” National Geographic Society	\$20,980
2014	UCLA La Kretz Center for California Conservation Science student award	\$1,100
2013	Geological Society of America Graduate Student Grant	\$2,100

2003	Geological Society of America Graduate Student Grant	\$2,460
2003	Sigma Xi Society Grant-in-Aid of Research	\$300
Fellowships		
2015-2016	Dissertation Year Fellowship, UCLA Graduate Division	\$20,500
2014-2015	Society of Woman Geographers National Fellow	\$12,000
2014	John Muir Memorial Chair Summer Fellowship	\$3,000
2012-2013	Graduate Research Mentor Fellowship, UCLA Graduate Division	\$20,500
2013 & 2012	Graduate Summer Research Mentorship, UCLA Graduate Division	\$13,000
2001-2002	Fenneman Fellowship, Dept of Geology, University of Cincinnati	\$13,000
Travel Awards		
2017	Columbia Univ Initiative on Extreme Weather and Climate	\$1,100
2015	American Association of Stratigraphic Palynologists	\$500
2014	Limnological Research Center Graduate Student Travel Award	\$1,000
2014	Dissertation Pilot Program, UCLA Graduate Division	\$280
2003	U.S. National Committee for the International Union of Quaternary Research, The National Academies	\$500

INVITED TALKS

- 2018 [8] Summit-to-Sea Clues for Southern California's Ice Age Climate and Vegetation. School of Biology and Ecology, University of Maine.
- 2017 [7] Glacial-Interglacial Cycles in California. Department of Environmental and Ocean Sciences, University of San Diego.
- [6] Southern California Climate and Vegetation over the past 125,000 years from lake sequences in the San Bernardino Mountains. Geology, Minerals, Energy, and Geophysics Science Center Seminar, Menlo Park U.S. Geological Survey.
- [5] Glacial paleoclimate change from North American Midwest and alpine Southern California lake sequences, Department of Earth Sciences, Indiana University Purdue University – Indianapolis.
- 2016 [4] Insights into hydroclimatic variability of Southern California since 125 ka, from multi-proxy analyses of alpine lake records. Department of Geological Sciences Colloquium Series, California State University – Fullerton.
- 2015 [3] Lake sequences from Big Bear Valley in the San Bernardino Mountains provide insight into S. California paleoclimate over the past 100,000 years. Society of Woman Geographers, Southern California chapter.
- [2] Insight into Southern California paleohydrology since Marine Isotope Stage 5c (c. 96 ka) from lakes in the Big Bear Valley, San Bernardino Mountains, California. Department of Earth Sciences, University of Southern California.
- 2014 [1] Lake sequences from Big Bear Valley in the San Bernardino Mountains provide insight into S. California paleoclimate over the past 100,000 years. Department of Earth Sciences Colloquium Series, University of Minnesota.

CONTRIBUTED SCIENTIFIC PRESENTATIONS

Talks

- 2018 American Geophysical Union Fall Meeting, Washington, D.C.
- 2018 Paleochronology Building Workshop II, Campeche City, Campeche, Mexico.
- 2017 Conference on Fire Prediction Across Scales, Columbia Initiative on Extreme Weather and Climate, New York, NY.
- 2017 International Biogeography Society Biennial Conference, Tucson, AZ.
- 2016 American Geophysical Union Fall Meeting, San Francisco, CA. (*Invited*)
- 2016 California Geographical Society Annual Meeting, San Jose, CA.

Geosystems Paper Award

- 2016 American Association of Geographers Annual Meeting, San Francisco, CA.

Biogeography Student Paper Award

- 2015 Geological Society of America Annual Meeting, Baltimore, MD.
- 2015 Pacific Climate Workshop, Pacific Grove, CA
- 2014 California Geographical Society, Annual Meeting, Los Angeles, CA.

Tom McKnight 1st Place Graduate Student Paper Award

- 2013 Geological Society of America Annual Meeting, Denver, CO.
- 2013 American Association of Geographers Annual Meeting, Los Angeles, CA.
- 2012 California Geographical Society Annual Meeting, Davis, CA.
- 2011 American Geophysical Union Fall Meeting, San Francisco, CA.
- 2006 10th International Paleolimnology Symposium, Duluth, MN.
- 2004 Geological Society of America Annual Meeting, Denver, CO.

Posters

- 2015 American Geophysical Union Fall Meeting, San Francisco, CA.
- 2015 Quadrennial International Limnogeology Congress, Reno, NV.
- 2013 American Geophysical Union Fall Meeting, San Francisco, CA.
- 2013 California Geographical Society Annual Meeting, San Luis Obispo, CA.
- 2013 Pacific Climate Workshop, Pacific Grove, CA.
- 2003 XVI International Union for Quaternary Research, Reno, NV.
- 2003 Third International Limnogeology Congress, Tucson, AZ.
- 2002 Geological Society of America Annual Meeting, Denver, CO.
- 2001 Fifteenth National Conference on Undergraduate Research, Lexington, KY.

TEACHING EXPERIENCE

Instructor of Record

- 2014 & 2015 **Fueling the Future: Environmental Impact of Energy Resources**, UCLA
- 2014 **Biodiversity in a Changing World**, UCLA
- 2005-2011 **Earth Science 9** and **Environmental Science**, Charlotte Catholic High School
- 2005 **Introduction to Geology Lab**, University of North Carolina – Charlotte
- 2003 **Introduction to Geology Lab**, University of Cincinnati

Teaching Assistant

- 2015 **Biodiversity in a Changing World**, UCLA (Instructor: Dr. Glen MacDonald)
- 2013-2015 **The Global Environment**, UCLA (Lead Instructor: Dr. Keith Stolzenbach)
- 2002-2003 **Introduction to Geology**, University of Cincinnati (Instructor: Dr. John Grover)

Teacher Training

- 2015 ENG COMP 495 Supervised Teaching Practicum, UCLA
- 2012 GEOG 495 Teaching College Geography, UCLA
- 2009 “Project Coal-to-Electricity: Teaching Environmental Issues,” Eastern Coal Council
- 2008 “Earth and Environmental Science for Teachers,” Pisgah Forest Institute
- 2007 Diocese of Charlotte Teaching License
- 2006 “Using Authentic Scientific Ocean Drilling Data for Earth Systems Science Inquiry,” K-12 Short Course at Geological Society Annual Meeting
- 2005-2007 15 Continuing Education Credits at Central Piedmont Community College, including “Differentiating Instruction,” “Introduction to ADHD,” and “Socratic Seminar”

Student Mentorship

- 2018 Mikayla Mason (undergraduate | work study for paleoecological lab techniques)
- 2017-2018 Trevor Lessard (undergraduate | work study for paleoecological databases)
- 2015 Victor Huang, Alec Lautanen (undergraduates | ENV 99 research credit)
- 2013-2014 April Chaney (undergraduate | Geography Honors Thesis)
- 2013 Nicole Tachiki (undergraduate | ENV 199 Research Project)
- 2012-2013 Sargam Saraf (undergraduate | ENV 199 Research Project)
- 2012-2013 Alexis Whitaker (undergraduate | research volunteer and co-author)

FIELD EXPERIENCE

- 2017 Lake coring in Acadia National Park
- 2017 Visitor Interpretation at several natural resource sites in Sequoia National Park
- 2015 Project 23 Excavation, Page Museum at the La Brea Tar Pits, L.A. County Museums
- 2014, 2015 Vegetation survey in San Bernardino Mountains for Ph.D. research
- 2012 Site survey and coordinated lake drilling for Ph.D. research, San Bernardino Mountains
- 2012 Field mapping course of Quaternary sediments, Death Valley, CA
- 2007-2010 Mapped trail alignments, structures and terrain for California State Parks
- 2002-2004 Lake and bog coring trips in Canada, Midwest and Great Lakes region
- 2001 & 2002 Field mapping courses in glacial geology, southern Alaska and Canadian Rockies
- 2000 & 2001 Archaeological landscape survey in Turkey (2000) and Greece (2001)

OUTREACH

- 2017–present Blogging and social media outreach (Facebook, Twitter) for the La Brea Food Webs project (<http://labreawebs.wordpress.com> @labreawebs #labreawebs)
- 2018 presenter, “Skype a Scientist,” 2 middle school classrooms
- 2018 presenter, “Summit-to-Sea Clues for Southern California’s Ice Age Climate and Vegetation” webinar, Society of Woman Geographers

SYNERGISTICS

Proposal Reviewer

National Science Foundation (EAR – Geomorphology and Land Use)
American Chemical Society

Manuscript Reviewer

Open Quaternary
Quaternary Research
International Journal of Limnology
EcoEd Digital Library

Community Service

Fossil Lab, La Brea Tar Pits, Los Angeles County Museums (2015 – 2016)

Professional Society Leadership

Organizing Committee, International Limnogeology Congress (ILIC6; June 2015)

Committee Service

Geography Graduate Curriculum Reform Committee, UCLA
Graduate-Faculty Representative, UCLA
Graduate Academic Senate Representative, Faculty Welfare Committee, UCLA

PROFESSIONAL MEMBERSHIPS

2001 – present	Geological Society of America
2011 – present	American Geophysical Union
2011 – present	California Geographical Society
2012 – present	Society of Woman Geographers
2015 – present	Earth Science Womens Network
2016 – 2017	International Biogeography Society
2014 – 2016	American Association of Stratigraphic Palynologists
2012 – 2016	American Association of Geographers