

# Nicholas G. Spano

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## EDUCATION

- PhD **University of California, Berkeley**  
Integrative Biology, expected May 2020  
***Testing the Sporormiella indicator to clarify Quaternary plant-herbivore dynamics***  
Anthony Barnosky (chair), Cynthia Looy, and Thomas Bruns
- BS **University of Minnesota, Duluth**  
Geological Sciences, Departmental Honors, 2014  
***Discovery of Mount Mazama cryptotephra in Lake Superior: implications and potential applications***  
Thomas Johnson

## RESEARCH INTERESTS

Conservation, (ice age) ecology, environmental science/studies, and geology.

## SKILLS

Sediment analyses; teaching courses related to biology, conservation, environmental science, and geology; GIS; programming in R.

## TEACHING EXPERIENCE

- Graduate Student Instructor, University of California, Berkeley**
- |                                                                                                                                                                                             |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <b>Behavioral Ecology with Laboratory</b>                                                                                                                                                   | 2017, 2019 |
| In-depth examination of the ecological and evolutionary bases for behavioral diversity; lab, discussion, and field components.                                                              |            |
| <b>General Human Anatomy Laboratory</b>                                                                                                                                                     | 2017-2018  |
| Functional anatomy lab with models, cadavers, and histological slides.                                                                                                                      |            |
| <b>Principles of Conservation Biology</b>                                                                                                                                                   | 2016       |
| A survey of the principles and practices of conservation biology; lab- and discussion-based.                                                                                                |            |
| <b>Evolutionary Biogeography</b>                                                                                                                                                            |            |
| Exploration of how biogeographic processes influence the evolution of species, communities, and ecosystems; discussion-based with readings and presentations from biogeographic literature. |            |
| <b>Bioethics and Society</b>                                                                                                                                                                | 2015       |
| Exploration of the ethical dilemmas arising from recent advances in the biological                                                                                                          |            |

sciences; case-study-based discussion.

### **Americans and the Global Forest**

Case studies challenging students to think about how natural resource management and human values affect forest ecosystems around the world.

### **General Biology Laboratory**

2014

General introduction to plant development, form, and function; population genetics, ecology, and evolution.

## **Teaching Assistant, University of Minnesota, Duluth**

### **Earth History Laboratory**

2014

The historical development of the science of geology, nature of the geologic record, fossils, the geologic time scale, and tectonic evolution of continents and ocean basins; fossil-identification-based lab.

### **Geologic Principles for Civil Engineers**

2012, 2013

Laboratory on rock and mineral identification.

## **SCHOLARLY DEVELOPMENT**

### **Scholarships and Grants**

\$919	Graduate Student Research Grant, Geological Society of America	2018
\$3,000	Grad Student Award Research Grant, UC Museum of Paleontology	2018 & 2016
\$1,750	Graduate Research Award, Dept. of Integrative Biology, UC Berkeley	
\$2,350	Field Camp Scholarship, Dept. of Geological Sciences, UMN Duluth	2014
\$1,000	National Undergrad Scholarship, American Institute of Professional Geologists	
\$500	Scholarship for Field Study, National Association of Geoscience Teachers	

### **Publications**

- N.G. Spano, C.S. Lane, S.W. Francis, and T.C. Johnson, Discovery of Mount Mazama cryptotephra in Lake Superior (North America): Implications and potential applications, *Geology*, DOI: <https://doi.org/10.1130/G39394.1>.

### **Presentations**

- Spano, N.G., Zhang, Z., Holt, E., Blake, S.E., Garcialuna, P., Sysiong, P., 2016, Mammalian Taphonomic Environment of Pleistocene Fossil Lake, Oregon. *Society of Vertebrate Paleontology Abstracts with Programs*. p. 229.
- Spano, N., Lindsey, E., Villavicencio, N., & Barnosky, A. 2016. The Ecological Consequences of late-Quaternary Megafaunal Extirpations in Southern Brazil. *American Quaternary Association Abstracts with Programs*. p.49.
- Spano, N., Brown, E., & Deocampo, D. 2013. Rates of Chemical Weathering Inferred from Tasmanian Lake Sediments. *Geological Society of America Abstracts with Programs*. v. 45, no. 7, p.781.
- Francis, S., Spano, N., & Johnson, T. 2013. Mazama Ash Used for Precise Chronostratigraphy of Lake Superior Sediment Cores. *Geological Society of America Abstracts with Programs*. v. 45, no. 7, p.781.
- Spano, N. et al. 2012. Modern and Fossil Biota of Blue Hole Five, San Salvador Island, Bahamas: *Geological Society of America Abstracts with Programs*. v. 44, no. 7, p.279.

## PROFESSIONAL AFFILIATIONS, TRAINING, AND CERTIFICATES

### Affiliations

<i>American Quaternary Association</i>	2016-present
<i>Society of Vertebrate Paleontology</i>	2015-present
<i>Geological Society of America</i>	2012-present

### Training

<a href="#"><i>GIS: QGIS, Google Earth Engine, geospatial data in R, etc.</i></a>	2014-present
<i>Python Fundamentals</i>	2017
<i>LaTeX Fundamentals</i>	
<a href="#"><i>Data Carpentry: Spreadsheets, OpenRefine, SQL, R, and Python</i></a>	2016
University of California, Berkeley	
<i>Drilling and Coring Summer Institute</i>	
University of Minnesota, Minneapolis	

### Certificates

<i>Graduate Certificate in GIS and Technology</i>	expected 2020
<i>Certificate in Teaching and Learning in Higher Education</i>	
<i>Graduate Assembly Multicultural Education Certificate Program</i>	2016
University of California, Berkeley	

## SCIENCE OUTREACH

### Public talks

<i>Big Ideas About Big Animals</i>	June and September, 2018
A discussion on what makes big animals ecologically special, how they have shaped ecosystems for millions of years, and what the recent extinctions of many big animals mean for conservation today.	
<i>The Last Ice Age</i>	June, 2018
How have the landscapes of California been shaped by the ice ages and what does that mean for California's charismatic wildlife?	

### University of California Museum of Paleontology

*California Academy of Sciences NightLife* 2015-present  
Promoting paleontology outreach with specimens presented at the California Academy of Sciences, San Francisco.

#### *Bay Area Science Festival*

Annual event at AT&T Park in San Francisco promoting paleontology outreach to the greater San Francisco Bay Area community.

#### *Cal Day*

Annual UC Berkeley open-house highlighting outreach and research.

### Community Resources for Science

2014-present

#### *Be A Scientist Program*

Mentored 7th grade students at Willard Middle School, Berkeley, CA to design, carry out, and report independent scientific investigations over seven weeks.

#### *Family Science Night*

Assisting primary school students and their families in the East Bay Area, CA engage in hands-on science activities.

***Bay Area Scientists In Schools***

Led free, in-class science lessons to elementary students in Berkeley and Oakland, CA.

**Lake Superior Zoo**

2012-2014

***Docent***

Presented live animals and zoological materials in Duluth, MN to promote the understanding, appreciation, and conservation of animals.

**UNIVERSITY PROFESSIONAL SERVICE**

***Treasurer, Society for Conservation Biology***

2015-present

***Integrative Biology Graduate Student Association Representative***

2016-2017

University of California, Berkeley

***Undergraduate Representative, Department of Geological Sciences***

2013-2014

University of Minnesota, Duluth

**REFERENCES**

Professor Anthony Barnosky, Chair  
Jasper Ridge Biological Preserve  
Stanford University  
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[tonybarnosky@stanford.edu](mailto:tonybarnosky@stanford.edu)