

**M. ALLISON STEGNER**  
*CURRICULUM VITAE*

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**EDUCATION**

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**Ph.D.**, 2015, University of California, Berkeley, Department of Integrative Biology.  
**B.S.**, 2010, Stanford University, Biology Department. Honors in Ecology and Evolution.

**APPOINTMENTS**

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11/2016-present Postdoctoral Research Associate, Abrupt Change in Ecological Systems Project, University of Wisconsin, Madison.  
09/2016-11/2016 GeoCorps Women in STEM Outreach Assistant, Bureau of Land Management, Moab, Utah.  
09/2015-present Research Associate, University of California Museum of Paleontology.

**SKILLSETS**

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R: statistical analyses, modeling, and GIS	Fossil curation
Geometric morphometrics	AMS radiocarbon dating
University teaching and mentoring	Pollen extraction
Outreach and communication	Mammal identification (living and fossil)
Quaternary fossil deposit excavation	Mammal mark-recapture surveys
Fossil prospecting and site evaluation	Mammal specimen preparation

**PUBLICATIONS**

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**Stegner MA** (2016). Stasis and change in Holocene small mammal diversity during a period of aridification in southeastern Utah. *The Holocene* DOI: 10.1177/0959683616632894

**Stegner MA** (2015) Spatial and Temporal Variation in Mammalian Diversity of the Colorado Plateau (USA). Dissertation.

**Stegner MA** (2015) The Mescal Cave fauna (San Bernardino County, California): Testing assumptions of habitat fidelity in the Quaternary fossil record. *Quaternary Research* 83: 582-587.

Barnosky AD, Holmes M, Kirchholtes R, Lindsey E, Maguire KC, Poust AW, **Stegner MA**, Sunseri J, Swartz B, Swift J, Villavicencio NA, Wogan GOU. (2014) Prelude to the Anthropocene: two newly-defined North American Land-Mammal Ages. *The Anthropocene Review* 1(3): 225-242.

**Stegner MA**, Holmes M. (2013) Using paleontological data to assess mammalian community structure: Potential aid in conservation planning *Palaeogeography, Palaeoclimatology, Palaeoecology* 372: 138-146.

**Stegner MA** (2012) NeoMap: An important step toward answering macro-scale questions. UCMP blog <http://ucmp.berkeley.edu/blog/archives/2260>

**In Revision:**

**Stegner MA**, Hadly EA, Karp D, Rominger A. Biodiversity retention in U.S. National Park Service

lands of the Colorado Plateau. (submitted to *Biological Conservation*)

Barnosky AD, Hadly EA, Gonzalez P, Ackerly D, Alex K, Biber E, Blois J, Brashares J, Ceballos G, Davis E, Dietl G, Dirzo R, Doremus H, Eronen J, Fortelius M, Greene H, Head J, Hellmann J, Hickler T, Jackson S, Kemp M, Koch P, Kremen C, Lawing M, Lindsey E, Looy C, Marshall C, Mendenhall C, Mulch A, Mychaljliw A, Nowak C, Polly PD, Ramakrishnan U, Schnitzler J, Das Shrestha K, Solari K, Stegner L, **Stegner MA**, Chr. Stenseth N, Wake M, Zhang Z. No Going Back: Merging Paleontology With Conservation Biology to Guide the Future of Terrestrial Ecosystems. (submitted to *Science*)

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#### **PUBLISHED ABSTRACTS FROM PROFESSIONAL MEETING PRESENTATIONS** \*Invited talks

**Stegner MA** (2016) Fluctuation in small mammal community structure during the late Holocene in southeastern Utah. Society of Vertebrate Paleontology Meeting, Salt Lake City, Utah. *Journal of Vertebrate Paleontology*, Program and Abstracts.

\*Hunt-Foster R, Uglesich J, King S, **Stegner A**, Madalena KM (upcoming, 2016) #BLMPaleo: GeoCorps interns make a difference in managing paleontology on public lands in Utah. Geological Society of America Meeting, Denver, Colorado. Geological Society of America Abstracts with Programs, 48(7)

\***Stegner MA** (2014) Tracking variation in small mammal functional group abundance: impacts of Quaternary climate and land use on the Colorado Plateau. *Journal of Vertebrate Paleontology*, Program and Abstracts, 234.

**Stegner MA** (2013) The Mescal Cave Fauna (San Bernardino County, California): Testing assumptions of habitat fidelity in the Quaternary fossil record. *Journal of Vertebrate Paleontology*, Program and Abstracts 218. (poster)

**Stegner MA**, Rominger A, Karp D, Macway S, Busby P, Hadly EA (2013) Species nestedness as an indicator of biodiversity conservation within Colorado Plateau protected lands. *Frontiers of Biogeography*, 4 (S1): 72.

**Stegner MA**, Ferrer EA (2012) Drivers of jaw shape in *Neotoma*: mandibular geometric morphometrics and implications for morphological partitioning. *Journal of Vertebrate Paleontology* 32(S2): 178. (poster)

Barnosky AD, Holmes M, Kirchholtes R, Lindsey E, Maguire KC, Poust AW, **Stegner MA**, Sunseri J, Swartz B, Swift J, Villavicencio NA, Wogan GOU (2012) Prelude to the Anthropocene: two newly-defined North American Land-Mammal Ages. *Journal of Vertebrate Paleontology* 32(S2): 60.

**Stegner MA**, Holmes M (2012) Using paleontological databases to assess spatial and temporal conservation of mammalian community structure as an aid to conservation planning. *Bulletin of the Ecological Society of America* 94(4S): COS 167-3.

**Stegner MA**, Ferrer EA (2012) Holocene biogeography of *Neotoma*: mandibular geometric morphometrics and implications for climate change. *Integrative and Comparative Biology* 52(S1):e167.

**Stegner MA**, Holmes M (2011) Using paleontological databases to assess spatial and temporal conservation of mammalian community structure as an aid to conservation planning. *Journal of Vertebrate Paleontology* 31(S2): 199.

**Stegner MA**, Hadly EA (2010) Using the past to predict the future: blue grouse as a model for climate change. *Journal of Vertebrate Paleontology* 30(S2): 170A. (poster)

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#### **MEETING PRESENTATIONS (WITHOUT PUBLISHED ABSTRACTS)** \*Invited talks

\***Stegner MA** (2015) The Optimistic Pessimist. 20<sup>th</sup> Anniversary of the University of Utah S. J. Quinney College of Law Wallace Stegner Center for Land, Resources, and the Environment.

**Stegner MA** (2015) Stasis and change in Holocene small mammal diversity during a period of aridification in southeastern Utah. Conference of Science and Management on the Colorado

Plateau and Southwest Region, Northern Arizona University, Flagstaff, AZ.

**\*Stegner MA** (2015) Paleocology for Land Management. Integrating biology and paleobiology to enhance conservation of terrestrial ecosystems on a rapidly changing planet, Symposium & Workshop, Berkeley, CA.

**\*Stegner MA** (2014) New Holocene fossil localities and Quaternary faunal change in southeastern Utah. Utah Friends of Paleontology Meeting, Moab, Utah.

**Stegner MA** (2010) Using the past to predict the future: blue grouse as a model for climate change. Western Biology Conference for Undergraduate Research, Santa Clara University, CA. (poster)

### **HONORS, AWARDS, AND FELLOWSHIPS**

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2014 University of California Museum of Paleontology Fellowship

2013 Paleontological Society G. Arthur Cooper Award

2011 Outstanding Graduate Student Instructor Award

2011 Paleobiology Database Analytical Methods Workshop

2011 NSF Graduate Research Fellowship

### **GRANTS**

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2015 Canyonlands Natural History Association Discovery Pool Grant

2015 GRAC Research and Travel Funding, UC Berkeley

2014 Graduate Division Conference Travel Grant

2014 GRAC Research and Travel Funding, UC Berkeley

2014 Integrative Biology Summer Research Fellowship

2014 Sigma Xi Berkeley Chapter Research Grant

2014 Sigma Xi National, Grant-In-Aid of Research

2013 Sigma Xi Berkeley Chapter Research Grant

2013 Integrative Biology Summer Research Fellowship

2013 Paleontological Society Summer Research Grant

2013 Geological Society of America Research Grant

2012 UCMP Graduate Student Summer Research Grant

2012 Integrative Biology Summer Research Fellowship

2011 Desert Legacy Fund, Community Foundation serving Riverside & San Bernardino Counties

2010 International Biogeography Society Travel Grant

2009 Vermont Botanical and Bird Club Annual Meeting Scholarship

2009 Stanford University Vice Provost for Undergraduate Education Grant

### **TEACHING EXPERIENCE**

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2015 Morphology of the Vertebrate Skeleton. Grad Student Instructor. UC Berkeley.

2014 Exploring Mammal Teeth. Instructor. Greensboro Library Summer Programming.

2011 Bio 1B: General Biology Lab. Grad Student Instructor. UC Berkeley.

2010 Morphology of the Vertebrate Skeleton. Grad Student Instructor. UC Berkeley.

### **SERVICE AND SYNERGYSTIC ACTIVITIES**

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2016- Biodiversity Collections Network Next Generation Research Working Group.

2015- Conservation Paleobiology Working Group, UC Berkeley.

2013- Greensboro Association Trustee (Conservation Committee Chair), Greensboro, VT

2013- Greensboro Land Trust Advisory Committee member, Greensboro, VT

2011- Barr Hill & Long Pond Preserve Stewardship Committee member, Greensboro, VT.

2010-2015 Associate Editor. *PaleoBios*. ISSN: 0031-0298

2009-2010 Associate Editor. *Stanford Undergraduate Research Journal*.

2004-2005 Board Member. Greensboro Public Library, Greensboro, VT.

**RESEARCH IN THE MEDIA** (see [allisonstegner.com](http://allisonstegner.com) for links)

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09/2016 “Getting plastered in San Juan County,” *Moab Sun News*.

09/2016 “Digging into the Past for Climate Solutions,” TNC Utah website.

07/2016 “Cattle ranchers, scientists work side by side to keep Utah ranch alive,” KSL News.

05/2016 Research Feature in *The Sundial Newsletter* of the Canyonlands Research Center.

08/2015 Interview in “America. The Beautiful: Canyonlands,” The Travel Channel.

02/2015 “Researchers work to define a geological era characterized by human impacts,” *The Daily Californian*.

05/2013 “Science in the Desert,” *Basin Range and Rimrock*, TNC Utah newsletter.

**UNDERGRADUATE ASSISTANTS AND MENTEES**

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Brandon Quinn (2007); Sarah Tulga (2012); Molly Hardesty-Moore (2013-2015); Harman Bhullar (2013-2014); Prayerna Uppal (2013-2014); Patrick Garcialuna (2014-2015); Emily Judd (2015)

**PROFESSIONAL MEMBERSHIP**

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Geological Society of America; International Biogeography Society; Society of Vertebrate Paleontology; American Society of Mammalogists; Sigma Xi; Vermont Botanical and Bird Club; Utah Friends of Paleontology