

## Curriculum Vitae

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### Katharine W. Huntington, née Ruhl

Associate Professor, Department of Earth & Space Sciences  
Endowed Professor for the College of the Environment in Earth Systems  
University of Washington, Box 351310, Seattle, WA 98195-1310  
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<http://faculty.washington.edu/kate1>

### RESEARCH INTERESTS

- Interactions of tectonics, erosion and climate in shaping Earth's surface
- Paleotopography, terrestrial paleoclimate, diagenesis and fluid-fault interactions
- Geochemistry, including geochronology, thermochronology and clumped isotope thermometry; field geology, geomorphology, structural geology, sedimentology, thermo-kinematic modeling

### EDUCATION

- 2006 Ph.D., Geology, Massachusetts Institute of Technology  
Thesis advisor Kip Hodges: "The use of detrital mineral thermochronology to explore relationships among climate, erosion, and tectonics in the Nepal Himalaya"
- 2001 B.S., Geology and Economics, University of North Carolina at Chapel Hill  
*Summa cum laude* and with Highest Distinction. Honors thesis advisor Kevin Stewart:  
"Raman microspectroscopic identification of mineral inclusion in zircons associated with the Ashe Metamorphic Suite eclogite, Blue Ridge Mountains, northwestern North Carolina"

### PROFESSIONAL EXPERIENCE

- 2014-present Associate Professor, University of Washington  
2008-2014 Assistant Professor, University of Washington  
2006-2008 Postdoctoral Fellow, California Institute of Technology  
*supervisors Brian Wernicke and John Eiler*
- 2001-2006 Graduate Research/Teaching Assistant, Massachusetts Institute of Technology  
1999-2000 Undergraduate Research Fellow, UNC-Chapel Hill

### HONORS AND AWARDS

- 2018 Endowed Professorship for the College of the Environment in Earth Systems  
2018 University of Washington Leadership Excellence Program, invited participant  
2016 SEPM Society for Sedimentary Geology Outstanding Paper Award  
2013 Fellow of the Geological Society of America  
2013 Bassett Distinguished Teaching Award, Department of Earth and Space Sciences  
2012 Donath Medal, Geological Society of America Young Scientist Award  
2011 NSF Early Career PI invitee to White House  
2011 NSF Geosciences Directorate Distinguished Lecturer

## HONORS AND AWARDS (continued)

- 2010-2016 NSF CAREER Award  
2009 *Geological Society of America Bulletin* Exceptional Reviewer Award  
2009 *Geosphere* Exceptional Reviewer Award  
2006 Caltech Postdoctoral Fellowship  
2001 MIT Presidential Fellowship; Cornell University Sage Fellowship (declined)  
1997-2001 NSF Graduate Research Fellowship Honorable Mention; University of North Carolina Davies Scholar; Phi Beta Kappa; Op White Prize in Geological Sciences; Ingram Grant in Geological Sciences; North Carolina Science Opportunity Fellow

## GRANTS

### Awarded

- 2017-2019: NSF-EAR Instrumentation and Facilities. EAR-1649959. "Collaborative Research: Development of Tunable Infrared Laser Direct Absorption Spectroscopy (TILDAS) for clumped isotope analysis of CO<sub>2</sub>." \$207,724 (UW portion for first phase \$4,396), Co-PI with David Dettman and Jay Quade (U of Arizona) and David Nelson (Aerodyne).
- 2017-2019: NSF-EAR Geobiology & Low-Temperature Geochemistry. EAR-1713275. ""EAGER: Reducing uncertainty in clumped isotope thermometry by evaluating the effect of <sup>17</sup>O excess." \$69,304. PI Casey Saenger, Co-PIs Eric Steig, K. Huntington.
- 2014-2018: NSF-EAR Geomorphology and Land-use Dynamics. EAR-1349279. "Impact of Quaternary megafloods on erosion of the Tsangpo River gorge, southeastern Tibet, \$224,001. Sole PI.
- 2016: Quaternary Research Center. "Paleoenvironmental constraints from paleosol-loess sequences: evaluating clumped ( $\Delta 47$ ) isotopic records in biogenic and pedogenic carbonate." \$5,700, sole PI.
- 2013-2016: NSF-EAR Geobiology & Low-Temperature Geochemistry Program EAR-1252064. "Collaborative Research: Interpreting clumped isotope temperatures and  $\delta^{18}\text{O}$  records from pedogenic carbonate: influence of climate, seasonality, and elevation." \$170,709 (UW portion). Co-PI with G. Hoke (Syracuse).
- 2012-2013: NSF-EAR Instrumentation and Facilities Program EAR-1156134. "Early Career: acquisition of a gas-source isotope-ratio mass spectrometer for research and education in tectonics and paleoclimate." \$365,362. Sole PI.
- 2010-2016: NSF-EAR Tectonics Program EAR-0955309: "CAREER: The detrital record of focused rock uplift and exhumation, northeast Indian Himalaya." \$487,197. Sole PI.
- 2010-2011: Royalty Research Fund Grant #65-2771: "Development of a sample preparation system for measurement of clumped isotopes in carbonate for paleoclimate and paleoelevation reconstructions," \$35,503. Sole PI.
- 2009-2012: ACS Petroleum Research Fund Grant #49704: "The Use of Carbonate 'Clumped Isotope' Thermometry to Quantify Temperatures of Burial and Diagenesis from 0-200 °C." \$100,000. Sole PI.

### Pending

- NSF-EAR-Geobiology & Low-Temperature Geochemistry. "Collaborative Research: Toward a quantitative understanding of the factors controlling soil carbonate accumulation." lead PI, with co-PIs Greg Hoke and Dan Brecker.

## RECENT INVITED KEYNOTE ADDRESSES, CONFERENCE TALKS, AND SEMINARS

### *Recent talks*

- 2018 (scheduled) Princeton University, *Department Seminar*  
Chinese University of Geosciences, Beijing, China, *Lecture series*  
Nanjing University, Nanjing, China, *Lecture series*  
Institute of Tibetan Plateau Research of the Chinese Academy of Sciences, *Invited talk*  
University of Washington, Dept. Earth and Space Sciences, *Colloquium*  
5<sup>th</sup> Biennial Structural Geology & Tectonics Forum, *Invited talk*  
Lamont-Doherty Earth Observatory, Columbia University, *Colloquium*  
U Texas Austin, *DeFord Lecture, Lithospheric Dynamics Seminar, Diversity seminar*
- 2017 National Science Foundation, EAR Division, *Invited talk*  
Geological Society of America Annual Meeting, *Invited talk*  
Canadian Geosciences Union Annual Meeting, Canada, *Invited talk*  
Utah State University, *Forster Award Lectures (2), Women's mentoring lunch*  
Texas A&M University, *Department Seminar*
- 2016 University of Utah, *Department Seminar*  
Rice University, *Department Seminar*  
University of Wollongong, Australia, *Invited talk*
- 2015 University of California, Berkeley, *Department Seminar, Special Seminar*  
Portland State University, *Department Seminar*  
Oregon State University, *Department Seminar, Women's mentoring lunch*  
University of Oregon, *Department Seminar*  
Syracuse University, *Department Seminar*  
University of Wisconsin, Madison, *Weeks Lecture, Women's mentoring lunch*
- 2014 Geological Society of America Annual meeting, *Keynote*  
University of Idaho, *Department Seminar*  
4<sup>th</sup> Int. Workshop on Clumped Isotopes, Zurich Switzerland, *Keynote*  
Goldschmidt Conference, Sacramento CA, *Invited talk*  
University of Illinois, Urbana-Champaign, *Department Seminar*  
Geological Society of America Penrose Conference, *Keynote*  
University of California, Los Angeles, *Department Seminar*  
University of California, San Diego, *Department Seminar*

### *Selected keynotes and named lectures prior to promotion to Associate Professor*

- 2013 Geological Society of America Annual Meeting, Pardee Symposium, *Keynote*  
2012 Geological Society of America Annual Meeting, *Gold Medal Lecture*  
2012 University of Arizona, 40<sup>th</sup> Annual GeoDaze *Keynote Lecture*  
2011 NSF Geosciences Directorate *Distinguished Lecture*, Arlington, VA  
2011 Dickinson College, Potter Lectures, *public Keynote and Department Seminar*  
2010 Geological Society of America National Meeting, Denver, CO, *Keynote*

## TRAINEES

### Postdoctoral Fellows:

2. Dr. Ethan Hyland (2014-2016), now Assistant Prof. North Carolina State University  
topic: Climate reconstruction in North America during the Eocene Climatic Optimum using clumped isotope thermometry and paleobotany
1. Dr. Alex Lechler (2013-2014), now Assistant Prof. Pacific Lutheran University  
topic: Carbonate clumped isotope record of last glacial-interglacial climate change, Palouse Loess, USA; clumped isotope thermometer calibration and use in tectonics

### Graduate Students:

#### *Chaired Doctoral Degrees*

2. **Landon Burgener** (PhD 2018), now Postdoctoral Fellow, North Carolina State University  
thesis: Reconstructing terrestrial paleoclimate using clumped isotopes of pedogenic carbonates  
awards: UW David A. Johnston Award for Research Excellence, Harry E. Wheeler Scholarship (UW); Peter Misch Fellowship (UW); BYU Outstanding M.S. Thesis Award
1. **Karl Lang** (PhD 2014), now Assistant Professor, CUNY Queens College; and Postdoctoral Fellow, University of Stockholm  
thesis: Late Cenozoic evolution of the eastern Himalayan syntaxis from foreland deposits  
awards: Alexander von Humboldt Foundation Postdoctoral Fellowship; NSF EAPSI Fellowship; AGU Outstanding Student Paper Award; Crowell Best Graduate Thesis Award, SEPM, 3<sup>rd</sup> Place; GSA Graduate Research Grant; NSF Graduate Research Fellowship Honorable Mention; Howard Coombs Teaching Award (UW); Outstanding Community Impact (UW)

#### *Current Doctoral Students*

4. **Susannah Morey** (2017-2022 *expected*)  
topic: Evaluating erosional processes and mechanics during outburst flooding using numerical modeling, eastern Himalaya; awards: Program on Climate Change Fellowship (UW)
3. **Megan Mueller** (2016-2021 *expected*) Co-advised with Alexis Licht  
topic: Chronology of suturing and post-collisional deformation of the Anatolian orogeny, Turkey: insights from geochronology and sedimentology  
awards: NSF Graduate Research Fellowship Honorable Mention; UW Top Scholar Award
2. **Julia Kelson** (2013-2019 *expected*)  
topic: Terrestrial paleoclimate reconstruction from clumped isotope thermometry, Big Bend, TX  
awards: NSF Graduate Research Fellowship; UW Top Scholar Award; GSA Student Research Award; AGU Outstanding Student Presentation Award
1. **Michael Turzewski** (2012-2018 *expected*)  
topic: Impact of Quaternary megafloods on erosion of the Tsangpo River gorge, southeastern Tibet: hydraulic modeling, provenance studies and geochronology  
awards: NSF Graduate Research Fellowship Honorable Mention; Top Scholar Award (UW)

#### *Chaired Masters Degrees (Research program)*

2. **Sarah Bergman** (MS 2012), Faculty, Denver Center for International Studies Montbello  
topic: tracing paleofluid sources along the Moab Fault, UT, using clumped isotopes

1. **Nathan Peters** (MS 2012)

topic: Impact of seasonally variable soil carbonate formation on O- and clumped-isotope records

#### *Supervised Masters Capstone Research (MESSAGE - Applied Geosciences program)*

2. **Christopher Amador-French** (MS 2016), Project Geologist, Applied Earth Sciences  
topic: Stable and clumped isotope geochemistry of scale, Blue Mountain Geothermal Field, NV
1. **Kristina Sumner** (MS 2014), now Geologist/Environmental Scientist, Apex Co., LLC  
topic: assessing fracture connectivity using clumped isotope geochemistry of calcite cements

### *Other Significant Graduate Student and Postdoctoral Scholar Supervision*

<i>Student Name, Institution</i>	<i>Level of Supervision</i>	<i>Dates</i>	<i>Current position</i>
John Mering, PhD student U. Waikato, New Zealand	Supervise laboratory component of research project, including UW lab visit	2017-	PhD student
Zijie Ning, China Univ. of Geosciences, Beijing	Supervise laboratory and writing components of research projects, including 6 mo. UW visit	2016-	PhD candidate
Charles Beightol, PhD student Biology	Doctoral Supervisory Committee (GSR), with research input on geochemistry project	2014-	PhD candidate
Vivian Leung, PhD candidate UW ESS	Doctoral Supervisory Committee, significant research input	2014-	PhD candidate
Keith Hodson, PhD 2018 UW ESS	Dissertation Committee, significant research input and co-authorship on all chapters	2013-	
Ellen Olsen, MS student U of Oregon	Supervised clumped isotope laboratory component of research project	2018	Graduate student U of Oregon
Brittany McManus, MS 2018 UW MESSAGE	Master's Committee, read and provided scientific input on final technical report	2017-18	
Kazem Zamanian, PhD 2017 U of Gottingen	Supervised research project, including 2 months as visiting student in my lab	2016-17	Postdoctoral Scholar, U of Gottingen, Germany
Mallory Ringham, MS 2015 Syracuse U	Masters Reading Committee, supervised multiple lab visits, co-author on all chapters	2013-15	Current PhD student MIT-WHOI
Patrick Luetkemeyer, PhD 2016 Wash. U St. Louis	Supervised laboratory component of 3 research projects, including several UW visits	2013-16	Senior Geophysicist Terracon Consultants Inc.
Adam Hudson, PhD 2015 U of Arizona	Supervised laboratory component of several research projects, including UW lab visits	2012-15	Research Geologist, U.S. Geological Survey
Dylana Watford, MS 2015 University of Utah	Supervised laboratory component of MS research project, participated in preparation of publication	2015	Science teacher, 8 <sup>th</sup> grade New Caney ISD, TX
Randy Williams, PhD 2017 U of Wisconsin	Supervised clumped isotope laboratory component of research project	2015-16	Postdoctoral Fellow, McGill University
Alexis Licht, Postdoctoral Scholar U of Arizona	Supervised clumped isotope laboratory component of research project	2014	Assistant Professor, University of Washington
Gregory Wissink, PhD 2016 Syracuse University	Supervised clumped isotope laboratory component of research project	2013-14	Geologist, Tetra Tech
Vikas Adlakha, PhD 2013 Kurukshetra University	Supervised data interpretation, thermal modeling, and writing of PhD research	2011-13	Res. Scientist, Wadia Inst. Himalayan Geol.
Gabriele Casale, PhD 2012 UW ESS	Dissertation Committee, significant research input	2009-12	Assistant Professor, Appalachian State Univ.
Amanda Henck Schmidt, PhD UW ESS 2010	Dissertation Committee, significant research input and co-authorship on all chapters	2008-10	Assistant Professor, Oberlin College
Gerd Winterleitner, MS 2012 U Leoben, Austria	Formal research advisor for project during 2-month visit to UW	2010	Postdoc GFZ Potsdam, Germany

### **Undergraduate Research Students:**

#### *Undergraduate Research Advisees*

16. Nicole Sarieddine, Glacial-interglacial temperature change in Central Rocky Mountains from clumped isotopes of soil carbonates
15. Fairuz Aisyah, Fluid migration in clastic pipes from petrography of Carmel Formation, Utah
14. Pranav Bhardwaj, Fluid migration in clastic pipes, Carmel Formation, Utah
13. Mariah Danner, Megaflood erosion
12. Aaron Reding, Himalayan tectonics and erosion
11. Rebecca Smith, Clumped isotope thermometry of Morrison Formation
10. Adrienne Scott, Clumped isotope thermometry of synthetic calcite
9. Kristina Sumner, Sediment provenance and magnetostratigraphy

8. Katelyn Atakturk, Sediment provenance, eastern Himalaya
7. Evan Lewarch (co-advised with E. Steig), Clumped isotope methods
6. David Birlenbach, Clumped isotope thermometry calibration, diagenesis
5. Nathan Peters (co-advised with J. Bourgeois), Sedimentology of postglacial fluvial deposits
4. Christopher Maffucci, Megafloods in the eastern Himalaya, GIS
3. Jeff Whitman, Bedrock thermochronology, central Nepal
2. Mika Usher, Detrital thermochronology and point counting methods
1. Luke Bergman, Green River flood modeling

*Additional Undergraduate and Post-Baccalaureate Researchers Supervised in Laboratory*

3. Mara Page, U of Washington (2017-), primary research advisor Alexis Licht
2. Jordan Wang, U of Washington (2017-), primary research advisor Juliet Crider
1. Crystal Saadeh, U of Houston (2014), primary research advisor Joel Saylor

## **COURSES TAUGHT**

Note: maternity leaves Summer 2010 and Spring 2015; sabbatical 2015-16 (3 quarters)

ESS 211: Physical Processes of the Earth, 2009, 2017 (structural geology half of course, co-taught with J. Stone).

ESS 211: Physical Processes of the Earth, 2008, 2011, 2013, 2014 (geomorphology half of course, co-taught with D. Cowan).

ESS 418: Geoscience Communication, 2011, 2012, 2013, 2015, 2017, 2018.

ESS 480/580: Advanced Methods in Isotope Geochemistry, 2010, 2013, 2017.

ESS 490/590/595a: Inquiry-based courses for graduate and undergraduate students.

2009 - Tectonics and Climate, co-taught with G. Roe

2010, 2011, 2012 - Thermochronology in Tectonics and Erosion

2014 - Tectonic River Incision and Paleotopography

2014 - Clumped Isotope Geochemistry

2016 - Topographic Evolution of the Colorado Plateau

2018 - Grand Challenges in Tectonics

ESS 595b: Earth and Space Sciences Research Methods, Taught 11 quarters 2011-2017.

ESS 599: Earth and Space Sciences Colloquium, Fall 2010.

## **PROFESSIONAL SERVICE**

### Peer Review:

2013-15: Editorial Board, *Geology*

2013-15: Associate Editor, *Earth Surface Dynamics (Journal of the European Geosciences Union)*

2014,15 Panelist for NSF-EAR Geomorphology and Land-use Dynamics

2011 Panelist for NSF-EAR Geobiology and Low-Temp. Geochemistry

2010 Panelist for NSF-EAR Tectonics

2007-present: Manuscript Reviewer for journals including *Nature*; *Science*; *Proceedings of the National Academy of Sciences*; *Geology*; *Earth and Planetary Science Letters*; *Journal of Geophysical Research*; *Tectonics*; *Chemical Geology*; *Geological Society of America Bulletin*; *Geosphere*; *Applied Geochemistry*;

## PROFESSIONAL SERVICE (continued)

*Geochimica et Cosmochimica Acta; Geological Society of London Special Publications; Paleontological Society Papers; Applied Geochemistry; Rapid Communications in Mass Spectrometry*

2007-present: Ad-hoc proposal reviewer for U.S. National Science Foundation (programs include Tectonics, Geobiology and Low-Temperature Geochemistry, Sedimentary Geology and Paleobiology, Geomorphology and Land Use Dynamics, Ocean Drilling Program, CAREER, Earthscope, Instrumentation and Facilities, Polar Programs); European Science Foundation; Swiss National Science Foundation; U.S. Department of Energy; French National Research Agency, etc.

### National and International organizations:

- 2018-19 Co-organizer, 7<sup>th</sup> International Clumped Isotopes Workshop 2019
- 2015-18 Co-Chair, Tectonics Community Vision Document for NSF Writing Committee; Workshop Planning Committee
- 2017-18 Member, Geological Society of America Penrose Conference-Thompson Field Forum Revitalization Ad Hoc Committee
- 2017-18 Sponsor, Sparks for Change – NSF Leadership in Diversity Institute
- 2017 Workshop participant, NSF Research Coordination Network workshop on Dynamic Landscapes and Mammalian Evolution, Seattle, WA
- 2017 Lead, Future of Tectonics Initiative, Geological Society of America Annual Meeting, Seattle, WA
- 2017 Technical Session Convener, GSA Annual Meeting, Seattle, WA
- 2016 European Science Foundation College of Expert Reviewers
- 2015 Session Organizer, Outstanding Student Presentation awards liaison, AGU Fall Meeting, San Francisco, CA
- 2012 Judge, Student Presentation Awards, Goldschmidt Geochemistry Conference, Montreal, Canada
- 2012 Workshop participant, MYRES VI: The Sedimentary Record of Earth Surface Dynamics, Salt Lake City, UT
- 2011 Judge, Outstanding Student Presentation Awards, AGU Fall Meeting, San Francisco, CA
- 2011 Session co-convener, AGU Fall Meeting 2011: Terrestrial Sedimentary Record of Cenozoic Topography, Paleoclimate and Paleoenvironments
- 2010 Conference co-organizer, QRC Spring Workshop 2010: First International Meeting on Clumped Isotope Geochemistry, Seattle, WA
- 2010 Session co-convener, GSA Fall Meeting: Cryptic uplift of the interior of the U.S. Cordilleran Orogen
- 2009 Invited workshop participant, NSF Earthscope Science Plan Workshop, Snowbird, Utah

### University Service:

- 2017-19 Quaternary Research Center (QRC) Executive Committee
- 2018 IsoLab activity, College of the Environment new student Visit Day
- 2017 Sexist speech discussion leader, Dean's Executive Council meeting
- 2017 Nominated for UW Diversity Council, declined due to prior commitments

## PROFESSIONAL SERVICE (continued)

2016-17	Atmospheric Sciences Department Chair Search Committee
2014-15	QRC Resources Committee
2014-15	QRC Distinguished Lecture Series Committee
2014	Earth & Space Sciences Chair Search Committee
2014	UW New Assistant Professor Discussion Panel
2013	PCC visiting committee, interview participant
2013	CoEnv COMPASS communication training, participant
2013	ADVANCE workshop on CAREER proposals, presenter
2011-12	Program on Climate Change (PCC) Board, board member
2011-present	Quaternary Research Center, member
2011	ADVANCE workshop on peer mentoring, presenter
2011	College of the Env., Conversations on Defining Diversity, panelist

### Departmental Service:

2017-18	Chair, Subduction Zone Geology Faculty Search Committee
2017-18	Co-founder, facilitator, Earth and Space Sciences Diversity & Community Resources group
2010, 13, 17, 18	Research Gala Awards Committee
2008-17	Curriculum Committee (except sabbatical 2015-16)
2010-11, 17-18	Colloquium Committee
2013-15	Spring Geoclub communication workshop leader
2014	MESSAGE and Space Tech program impact evaluation Committee
2011	Applied Geomorphology Faculty Search Committee
2011	Graduate Admissions Committee
2010, 11	Annual Earth and Space Sciences Children's Day, activity leader
2009-10	Executive Committee
2009	Scholarships and Awards Committee

### Outreach to Promote Diversity and Education:

2017-	Sponsor, Sparks for Change Diversity Institute, Boulder Colorado
2017	K-12 Teacher externship host – geomorphology and watersheds
2017-18	Curriculum development, ESS Rockin' Out outreach program
2014-16	Annual STEM-futures field trip host for hundreds of high school students from underrepresented & economically disadvantaged groups
2013-17	K-12 teacher externship program, field and lab externship host
2015	Nominated for College of the Environment Diversity Award
2010-15	UW in the High School - Earth science teacher professional development program, project lead (NSF CAREER project)
2012	Tahoma Senior High School job shadow program, student host
2011	2 <sup>nd</sup> grader career day (Gainseville, FL), interviewee
2011	The Nature School (Seattle, WA), science field trip host
2010	University Prep Middle School (Seattle, WA), field trip host
2009	Women in Science & Engineering Conference (Seattle, WA), panelist



## Bibliography

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PDFs of papers published or in press available at:  
<http://faculty.washington.edu/kate1/Publications.html>  
Key: **Huntington** = **Ruhl**, advisee, #invited

### Submitted for Peer Review

8. Burgener LM, Hyland E, **Huntington KW**, Kelson JR, Sewall JO, Revisiting the Equable Climate Problem During the Late Cretaceous Greenhouse Using Paleosol Carbonate Clumped Isotope Temperatures from the Campanian Western Interior Basin. Submitted to *Palaeogeography, Palaeoclimatology, Palaeoecology*.
7. Zamanian K, Lechler AR, Schauer AJ, Kuzyakov Y, **Huntington KW**, Paleoenvironmental constraints from Nussloch paleosol-loess sequence: dependence of  $\delta^{13}\text{C}$ ,  $\delta^{18}\text{O}$  and  $\Delta_{47}$  isotopic records on carbonate type. In revision.
6. Turzewski MD, **Huntington KW**, LeVeque RL, The geomorphic impact of outburst floods: integrating numerical simulations, field and remote sensing observations of an extreme flood event in the eastern Himalaya. Submitted to *Journal of Geophysical Research – Earth Surface*.
5. Hodson KR, Crider JG, **Huntington KW**, Segment-scale controls and diagenetic conditions associated with protracted post-deformation fluid migration along the Moab Fault, UT. Submitted to *Geological Society of America Bulletin*.
4. Kelson JR, Watford D, Bataille C, **Huntington KW**, Hyland E, Bowen GJ, Warm terrestrial subtropics during the Paleocene and Eocene: Carbonate clumped isotope ( $\Delta_{47}$ ) evidence from Big Bend, Texas (USA). In revision, *Paleoceanography & Paleoclimatology*.
3. Page M, Licht A, Dupont-Nivet G, Meijer N, Barbolini N, Hoorn C, Schauer A, **Huntington K**, Bajnal D, Fiebig J, Mulch A, Guo Z, Synchronous cooling and decline in monsoonal rainfall in NE Tibet during the fall into the Oligocene Icehouse. In revision.
2. Hyland EG, **Huntington KW**, Sheldon ND, Reichgelt T. Temperature seasonality in the North American continental interior during the early Eocene climatic optimum. *Climate of the Past*, (Discussion paper available at [doi.org/10.5194/cp-2018-28](https://doi.org/10.5194/cp-2018-28)), awaiting editor decision.
1. Ning Z, Zhang L, **Huntington K**, Wang C, Dai J, Han Z, Passey B, Qian X, Zhang J. The burial and exhumation history of the Liuqu Conglomerate, southern Tibet: insights from clumped isotope thermometry. Submitted to *Journal of Asian Earth Sciences*.

### Publications – Peer Reviewed

38. Ji S, Lechler AR, **Huntington KW**, Breecker DO (2018). A symmetrical CO<sub>2</sub> peak and asymmetrical climate change during the middle Miocene. *Earth and Planetary Science Letters* 499, 134-144, doi: 10.1016/j.epsl.2018.07.011.
37. Burgener LK, **Huntington KW**, Sletten R, Watkins JM, Quade J, Hallet B (2018). Clumped isotope constraints on equilibrium formation and kinetic isotope effects in soil carbonates from freezing soils. *Geochimica et Cosmochimica Acta* 235, 402-430. doi.org/10.1016/j.gca.2018.06.006
36. Lechler AR, **Huntington KW**, Breecker DO, Sweeney MR, Schauer AJ. (2018). Loess-paleosol carbonate clumped isotope record of Late Pleistocene-Holocene climate change in

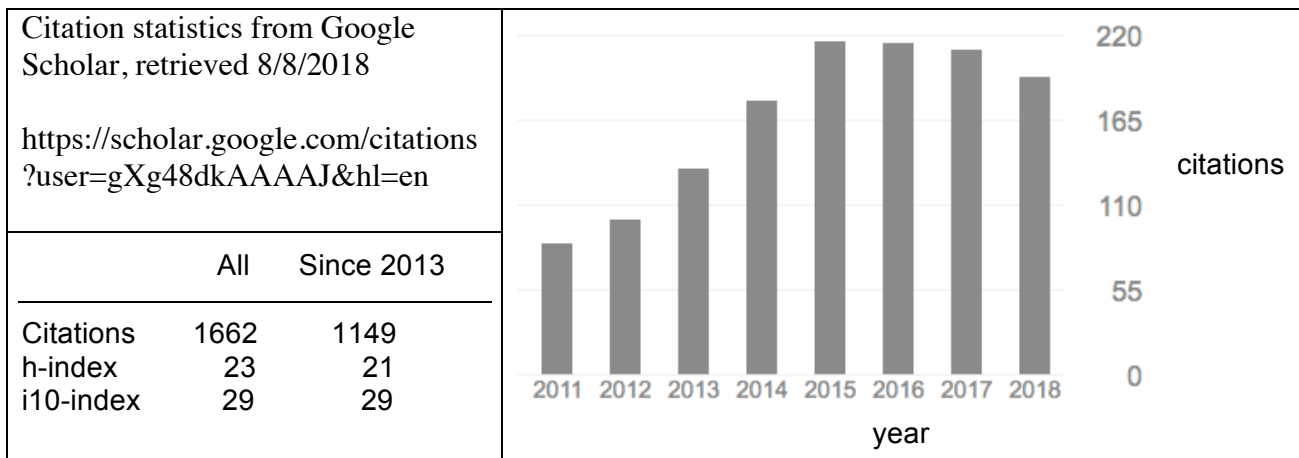
- the Palouse region, Washington State, USA. *Quaternary Research*, doi:10.1017/qua.2018.47.
35. Quade J, Rasbury ET, **Huntington K**, Hudson A, Vonhof H, Anchukaitis K, Betancourt J, Latorre C, Pepper M. (2017). Isotopic characterization of the late Neogene travertine deposits at Barrancas Blancas in the eastern Atacama Desert, Chile. *Chemical Geology* 466, 41-56. doi: 10.1016/j.chemgeo.2017.05.004.
  34. Hudson A, Quade J, Ali G, Boyle DP, Bassett S, **Huntington KW**, De Los Santos MG, Cohen AS, Lin K, Wang X. (2017). Stable C, O and clumped isotope systematics and <sup>14</sup>C geochronology of carbonates from the Quaternary Chewaucan closed-basin lake system, Great Basin, USA: implications for paleoenvironmental reconstructions using carbonates. *Geochimica et Cosmochimica Acta* 212, 274-302. doi: 10.1016/j.gca.2017.06.024.
  33. Licht A, Quade J, Kowler A, De Los Santos M, Hudson A, Schauer A, **Huntington K**, Copeland P, Lawton T. (2017). Impact of the North American monsoon on isotope paleoaltimeters: implications for the paleoaltimetry of the American Southwest. *American Journal of Science* 317, 1-33. doi: 10.2475/01.2017.01.
  32. Kelson JR, **Huntington KW**, Schauer A, Saenger C, Lechler A. (2017). Towards a universal carbonate clumped isotope calibration: diverse synthesis and preparatory methods suggest a single temperature relationship. *Geochimica et Cosmochimica Acta* 197, 104-131. doi:10.1016/j.gca.2016.10.010.
  31. Schauer AJ, Kelson J, Saenger C, **Huntington KW**. (2016). Choice of <sup>17</sup>O correction affects clumped isotope ( $\Delta_{47}$ ) values of CO<sub>2</sub> measured with mass spectrometry. *Rapid Communications in Mass Spectrometry* 30, 2607-2616. doi: 10.1002/rcm.7743.
  30. Luetkemeyer PB, Kirschner DL, Huntington KW, Chester JS, Chester FM, Evans JP. (2016). Constraints on paleofluid sources using the clumped-isotope thermometry of carbonate veins from the SAFOD (San Andreas Fault Observatory at Depth) borehole. *Tectonophysics* (Special Issue: Faults, Fractures, Fluids). doi: 10.1016/j.tecto.2016.05.024.
  29. Hodson K, Crider J, **Huntington K**. (2016). Multi-stage cementation and paleo fluid temperature in a faulted sandstone reservoir, Moab Fault, Utah, USA. (2016). *Tectonophysics* Special Issue: Faults, Fractures, Fluids. doi: 10.1016/j.tecto.2016.04.032.
  28. Lang KA, **Huntington KW**, Burmister R, Housen B. (2016). Rapid exhumation of the eastern Himalayan syntaxis since the Late Miocene. *GSA Bulletin* 128, doi:10.1130/B31419.1.
  27. Burgener L, **Huntington KW**, Hoke GD, Schauer A, Ringham M, Latorre C, Díaz F. (2016). Variations in soil carbonate formation and seasonal bias over >4 km of relief in the western Andes (30 °S) revealed by clumped isotope thermometry. *Earth and Planetary Science Letters* 441, 188-199. doi: 10.1016/j.epsl.2016.02.033
  26. Ringham MC, Hoke GD, **Huntington KW**, Aranibar JN. (2016). Influence of vegetation type and site-to-site variability on soil carbonate clumped isotope records, Andean piedmont of Central Argentina (32-34 °S). *Earth and Planetary Science Letters* 40, 1-11. doi:10.1016/j.epsl.2016.02.003.
  25. **Huntington KW**, Lechler AR (2015). Carbonate clumped isotope thermometry in continental tectonics. *Invited Review, Tectonophysics* 647, 1-20, doi: 10.1016/j.tecto.2015.02.019.
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## Publications – Other Scholarly Works

7. **Huntington KW** and Klepeis KA, with 66 community contributors (2018). Challenges and opportunities for research in tectonics: Understanding deformation and the processes that link Earth systems, from geologic time to human time. A vision document submitted to the U.S. National Science Foundation. University of Washington, 84 pp. doi: 10.6069/H52R3PQ5.
6. Ballard A, Turzewski MD, **Huntington KW** (2018). K-12 Topographic Maps and Hydrology Lesson 1: How to Read and Use Topographic Maps, EarthRef Database, <https://earthref.org/ERDA/2378/>.
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4. **Huntington KW** (2016a). K-12 Teacher Lab and Field Externships, Hosted by University Researchers, SERC On the Cutting Edge teaching activity collection; EarthRef Database, <https://earthref.org/ERDA/2204>.
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2. Sumner KK, Camp ER, **Huntington KW**, Cladouhos TC, Uddenberg M (2015). Assessing fracture connectivity using stable and clumped isotope geochemistry of calcite cements. PROCEEDINGS, Fourtieth Workshop on Geothermal Reservoir Engineering, Stanford University, Stanford, California, January 26-28, 2015, p. 1-12.
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## Selected Recent Conference Abstracts (last 5 years)

- Kele S, Sallam ES, Capezzuoli E, Wanas HA, **Huntington KW** (2018). Facies study and isotope geochemistry of Quaternary tufa and travertine carbonates in the Kurkur-Dungul area (Southern Egypt), Goldschmidt Conference, Boston, MA.
- Morey S, **Huntington KW** (2018). Evaluating erosional processes and mechanics during outburst flooding using numerical modeling in the eastern Himalaya, Summer Institute on Earth Surface Dynamics SIESD 2018: Earth-surface math: evolution, signals, and connections, Minneapolis, MN.
- Andrew BS, Barker SLL, Mering JA, **Huntington KW**, Schauer AJ, Rea P (2018). New Isotopic and Thermal Constraints for Fluid Flow During Copper Mineralisation, Mount Isa, Australia, Resources for Future Generations Conference, Vancouver, Canada.
- Hudson AM, Paces JB, Ruleman C, **Huntington KW** (2018). Carbonate clumped isotopes and *in situ* temperature monitoring for Holocene soils in the San Luis Valley, USA indicate springtime carbonate formation, Joint 70th Rocky Mountain Annual Section / 114th Cordilleran Annual Section Meeting. Flagstaff, AZ.
- Hodson KR, Crider JG, **Huntington KW** (2018). 2018 Structural Geology and Tectonics Forum, Tempe, AZ. [https://serc.carleton.edu/NAGTWorkshops/structure/2018\\_Forum/abstracts/192927.html](https://serc.carleton.edu/NAGTWorkshops/structure/2018_Forum/abstracts/192927.html)
- Saenger C, Schauer A, Kelson J, **Huntington K**, Steig E (2017). Leveraging longer reference frames to characterize clumped isotope outliers and  $^{17}\text{O}$  effects. 6<sup>th</sup> International Clumped Isotopes Workshop, Paris, France.
- Saenger C, Schauer AJ, Kelson K, Hodson K, **Huntington K**, Steig E, Gothmann A, Vallandares K (2017). How does carbonate  $\Delta^{17}\text{O}$  relate to source waters? Examples from biogenic and abiogenic materials. Goldschmidt Conference, Paris, France.
- #Huntington KW**, Turzewski MD, Lang KL (2017). The syntaxis nexus: interactions of fluvial erosion, climate and tectonics in the Eastern Himalaya, Canadian Geophysical Union Annual Meeting, Vancouver, Canada.
- Kirschner DL, Luetkemeyer PB, **Huntington KW**, Evans M (2017). Constraining burial history and fluid pressures through combined structural, clumped-isotope, and fluid-inclusion analyses. AAPG Annual Meeting.
- vonTrapp, Lechler AR, Schauer AJ, **Huntington KW** (2016). Clumped isotope record of pre-LGM, last glacial period paleoclimate in Palouse loess soil carbonates, GSA Rocky Mountain Section Meeting.
- Kelson JR, Schauer AJ, **Huntington KW**, Saenger C, Lechler AR (2016). Choice of  $^{17}\text{O}$  abundance correction affects D47 and its paleothermometer calibration. American Geophysical Union Annual Meeting, San Francisco, CA.
- Hyland EG, **Huntington KW**, Sheldon ND, Smith SY, Stromberg CAE (2016). Comparing floral and isotopic paleoelevation estimates: Examples from the western United States. American Geophysical Union Annual Meeting, San Francisco, CA.
- Turzewski MD, **Huntington KW**, LeVeque RJ (2016). The geomorphic impact of outburst floods: integrating field observations and numerical flood simulations of an extreme flood event, eastern Himalaya. Geological Society of America Fall Meeting, Denver, CO.
- Huntington KW**, Sumner KK, French C, Cladouhos TC, Camp E, Uddenberg M, Swyer M (2016). Stable and clumped isotope record of fault-related fluid flow and mineralization in the Blue Mountain geothermal field, Basin and Range, Nevada USA. Geological Society of America Fall Meeting, Denver, CO.
- Hodson KR, Crider JG, **Huntington KW** (2016). Clumped isotopes reveal temporal variability in permeability distribution at the fault-segment scale on the Moab Fault, Utah. Geological Society of America Fall Meeting, Denver, CO.
- Hodson KR, Crider JG, **Huntington KW** (2016). Parsing the structurally-controlled fluid migration history of the Moab Fault, UT, with carbonate clumped isotope thermometry. 4<sup>th</sup> Biennial Structural Geology and Tectonics Forum, Sonoma State University, CA.

- Turzewski MD, **Huntington KW**, LeVeque RJ (2016). Reconciling geomorphic observations with simulations of a modern landslide-dam outburst flood using GeoClaw software, eastern Himalaya. CSDMS Conference, Boulder, CO.
- Schauer A, Kelson J, Saenger C, **Huntington K** (2016). Is the absolute reference frame absolute? An apparent dependency of  $\Delta_{47}$  on  $\delta^{13}\text{C}$  in  $\text{CO}_2$ . 5<sup>th</sup> International Clumped Isotope Workshop, Miami FL, USA.
- Hodson KR, Crider JG, **Huntington KW**, Luetkemeyer BP (2015). Concurrent evolution of structural deformation and carbonate diagenesis within the Moab Fault, UT. AGU Fall Meeting, San Francisco CA, USA.
- Hyland EG, **Huntington KW** (2015). Resolving paleo-floral temperatures using the clumped isotope ( $\Delta_{47}$ ) thermometer: implications for Colorado plateau uplift. AGU Fall Meeting, San Francisco CA, USA.
- Kelson JR, **Huntington KW**, Schauer A, Saenger C, Lechler A (2015). Reconciling Empirical Carbonate Clumped Isotope Calibrations: A Comparison of Calcite Precipitation and Acid Digestion Methods. AGU Fall Meeting, San Francisco CA, USA.
- Lang K, **Huntington K** (2015). Clumped isotope paleothermometry of the Mio-Pliocene freshwater Lake Mohave, Lower ancestral Colorado River, USA. AGU Fall Meeting, San Francisco CA, USA.
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- Burgener L, **Huntington KW**, Hoke GD, Schauer A, Ringham M, Latorre C, Diaz F (2015). Clumped isotope thermometry reveals variations in soil carbonate seasonal biases over >4 km of relief in the semi-arid Andes of central Chile. AGU Fall Meeting, San Francisco CA, USA.
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- Hyland E, **Huntington KW**, Sheldon ND (2015). Temperature seasonality in continental North America during the Early Eocene Climatic Optimum. GSA Annual Meeting, Baltimore MD, USA.
- Williams R, Goodwin LB, Mozley PS, Beard BL, Johnson CM, **Huntington KW** (2015). Tectonic controls on fault-zone flow pathways in the Rio Grande Rift: insights from C, O, Sr and clumped isotope analyses of syntectonic calcite cement. GSA Annual Meeting, Baltimore MD, USA.
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- Luetkenmeyer PB, Kirschner DL, **Huntington KW** (2015). Fracture-controlled fluid flow in the Farnham Dome anticline: Insights from combined fluid-inclusion analysis and clumped-isotope thermometry of carbonate veins. European Geophysical Union Annual Meeting, Vienna, Austria.
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- #Huntington, K.W. (2014).** Clumped isotope thermometry in continental tectonics. Clumped Isotopes Workshop, Zurich Switzerland.
- Kelson, J., Lechler, A.R., Huntington, K., Schauer, A.J., Smith, R. (2014). Constraining the seasonality of soil carbonate formation using clumped-isotope paleothermometry. Clumped Isotopes Workshop, Zurich Switzerland.
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- Lang, K., Huntington, K., Montgomery, D. (2014). Quaternary erosion of the Tsangpo gorge by megafloods, eastern Himalaya. AMQUA Biennial Meeting.
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- Burgener, L., **Huntington, K.W.**, Hoke, G.D., Schauer, A., Samek, K. (2013). Precipitation season as a control on the timing of pedogenic carbonate growth in the central Andes. AGU Fall Meeting
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- #Huntington, K.W. (2013).** Paleotopography from stable isotopes and clumped isotope thermometry. Geological Society of America Fall Meeting, Pardee Keynote Symposium.
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