



Smithsonian

Volume 8

NHRE NEWS

REU Site, OCE-1560088



Autumn 2021

The Newsletter of the NSF REU Site: Natural History Research Experiences from the Summer Internship Program

Welcome to the NSF REU-Site Natural History Research Experiences' annual newsletter.

NHRE 2021, In Brief

Messages in our Slack channel: 3,795

Bad puns: you choose: all or none

Pangolin mentions in Slack: 5

Herbarium specimens available via open access: > 2M

Meteorite particle morphologies measured: 4,289

Coral mitochondrial genomes analyzed: 132

Elevation, in meters, of Blue Rock Flush habitat: 2042

Subadults with pathological conditions buried in Elmbank Cemetery: 154

Emails exchanged between Liz and other staff containing the word "GatherTown": 222

Directors' Corner

Greetings Quarantined Ones,

We hope you are reading this newsletter in safety, good health, and high spirits (okay, perhaps that last one is a stretch goal).

Alumni may be wondering why they are receiving a Directors Corner email from Liz and Gene after we announced our retirement from NHRE in 2020. Well, like everything else, nothing went according to plan in 2020. As you may recall, the 2020 program was canceled completely due to the COVID-19 pandemic. We had the great fortune to retain our NSF funding and co-direct one more year of NHRE – this time NHRE Virtual Edition!

15 interns participated in NHRE's first (and hopefully last) virtual internship, working with mentors on topics as disparate as precolonial mining, parasitizing mussels, and a carbonaceous rubble-pile asteroid. We met on Zoom. We communicated on Slack. We exchanged pizza, field trips, and late-night dorm shenanigans for chocolate-covered Oreos delivered in the mail, a book club, and pet shenanigans as shared on our channel. We connected with the public on social media rather than in the museum's halls. We connected with museum staff about our science on the GatherTown platform rather than in the Director's hallway.

For the most part, things went surprisingly well. We were blown away by the resilience, creativity, and brilliance of our 2021 cohort.

It is with sadness that we now truly step down as NHRE co-directors. But it is with great confidence and anticipation that we announce NHRE's 2022 leadership team! Mineralogist Ioan Lascu and biologist Vanessa Gonzalez have taken the reins of NHRE and will serve as its new co-directors. Thank the stars that dear Virginia Power will carry on as Program Administrator. Claire Puig will continue to minister to the team as Program Support Specialist.

Gene became Chair of the Paleobiology Department in 2019. Liz hopes to avoid the same fate in Mineral Science.

With love.

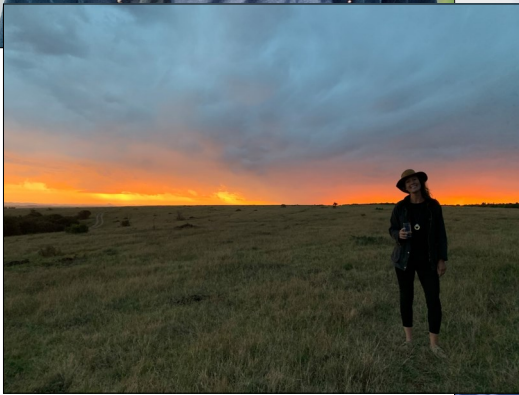


NHRE Class of 2010

Submitted by Jessica Glass



I recently started a new role as an Assistant Professor of Genomics at the University of Alaska Fairbanks, College of Fisheries and Ocean Sciences. I am also a new Honorary Research Associate at the South African Institute for Aquatic Biodiversity (formerly the JLB Smith Institute of Ichthyology), which hosts South Africa's national fish collection. I'm excited to be able to split my time between South Africa and Alaska - two incredible places!



Submitted by Sarah Ehlinger



I just finished a dual degree at Oxford University-MSc in Water Science, Policy and Management, and a MBA. I am going into ESG/Corporate sustainability in the MedTech industry. I am planning on staying in the UK for a little longer.



Alumni update 2010

Submitted by Christa Jackson

The last year and a half has brought changes into my life, as it has for many people. My husband, Adam, and I are settling into our new home after having to relocate from Denver to Houston for work. We are also expecting our first baby in October. We are excited to be parents, but wish we were able to share this time with family and friends in person. It has been challenging and lonely to be pregnant during a pandemic, but at least there is Zoom! Overall, we are very fortunate in many ways, and there is so much to be thankful



NHRE Class of 2011

Submitted by Alison Post

This spring, I defended my PhD in Ecology from Colorado State University, and now I'm a postdoc at Northern Arizona University in Flagstaff. In this position, I'm using repeat digital photography of grassland ecosystems to determine how they are responding to climate change. In other news, my long-term partner and I got engaged last year and will be getting married next summer!



Submitted by Alyson Harding



I can't believe it's been 10 years since our summer at the Smithsonian!

After graduating from NC State in 2013, I worked with AmeriCorps and then as staff member at Habitat for Humanity. I was on staff for two years in New Orleans, and loved working with volunteers and homeowners to build houses there.

I went back to school and earned a Master of Public Health in Epidemiology at the University of Pittsburgh. After that, I came to the University of Minnesota to pursue my PhD in Environmental Health Sciences, in the School of Public Health. My research interests are disaster

epidemiology and the health impacts of disasters, but I'm fortunate to be involved in a number of projects related to occupational, environmental, and injury epidemiology as well.

I'm currently engaged and getting married next year! My partner and I love traveling, camping, and exploring National Parks. We recently went to Joshua Tree and Death Valley, and he proposed in Joshua Tree under a gorgeous sunset.

NHRE Class of 2013

Everything is Normal

Submitted by Subir B. Shakya

The pandemic has many people asking when life is going to be normal. To that I would say, the life you are living in right now incorporating all the changes you have had to manage is your normal life. Yes, hardships abound for some people, and I am not belittling anyone going through troubling times. But constancy is an aberration; change is the normal. Well at least for me, that is. I admit not much has changed for me in terms of job (I am still a postdoc at LSU), family, relationships, and such. I have had to work from home rather than go to the office, but as someone for whom Skype and other video calling software is the de-facto way to be there with my family who live across the world, this was not a huge adjustment. Friendly socials still exist albeit it is behind a computer screen. I can't go out to marvel at nature, so why not bring nature home, which is exactly what I did by setting up a black porch light and white sheet and attracting all the coolest insects to my balcony. I miss travel but keep myself occupied by watching Anthony Bourdain do the travelling for me. What about the great foods? Find the recipe, go to Amazon, buy the ingredients, and make these foods. Yes, they won't be authentic, but I'll remember them more than some dishes I would have eaten at a restaurant. Add virtual conferences, virtual seminars, virtual lab meetings, all of this is the new normal. So instead of yearning for the bygone times of "normal," I just live in the present, which is the true normal. And seeing pictures of other friends getting jobs, new academic positions, and having families of their own, I think deep down everyone is leading a normal life.

Alumni update 2013

Starting Fall 2022, Raquel Bryant will be an Assistant Professor at Wesleyan University in the Department of Earth and Environmental Sciences!

NHRE Class of 2015

Submitted by Andree Cunningham



I received a NSF Doctoral Dissertation Research Improvement Grant in the spring of 2020! https://www.nsf.gov/awardsearch/showAward?AWD_ID=2041182&HistoricalAwards=false

Beyond that, I'm in year 6 of my PhD program at the University of Florida. Pending COVID travel restrictions, I'll hopefully be able to collect data from areas of the Caribbean and South Africa. In the meantime, I've been focusing on doing text analyses of historic newspapers to understand how enslaved persons were being positioned in these spaces (pilot data for that available [here](#)).

Submitted by Allie Snider

This has been a big year for me! I defended my PhD in August and will be graduating in December. I will be moving to New Orleans (once power returns post-Ida) for a year-long fellowship through the National Academies of Sciences, Engineering, and Medicine Gulf Research Program. For the duration of my fellowship, I am joining the Gulf Coast Ecosystem Restoration Council and I'm looking forward to exploring the world of science policy!

I'm also looking forward to the upcoming publication of a Special Feature in the journals *Ornithology* and *Ornithological Applications*; organizing the issue has been a very fun challenge and I'm excited for the papers we have lined up, including two of my dissertation chapters.

Finally, on a personal note, I adopted a wonderful dog named Winnie. She's been excellent company through the pandemic, the end of my PhD, and now Hurricane Ida.

Alumni update 2015

Isabella Muratore defended her PhD in biology at Boston University and is now working as a postdoc at NJIT.

NHRE Class of 2017

Submitted by Kyle Jaynes

Well, it has been too long, but I am finally wrapping up all my work from my time at the NMNH. I am attaching a recent publication that is set to be in the July issue (goes live online in 1 week). This is the final version of the manuscript.

Citation:

Jaynes, K.E., E.A. Myers, R.C. Drewes, and R.C. Bell. (2021). New evidence for distinctiveness of the island-endemic Príncipe giant tree frog (Arthroleptidae: *Leptopelis palmatus*). *The Herpetological Journal* 31(3):163-169.



Photo credit: Pedro Vaz Pinto for the picture of the frog. This is *Leptopelis millsoni*, a species of Giant Tree Frog in our study from mainland Central Africa (country of Angola, to be more specific).

I have another publication from my NHRE work in revision at *Molecular Ecology*, so hopefully you will be hearing from me in a few months with a final version of that manuscript too!

NHRE Class of 2018

Submitted by Gina Errico



After graduating from The College of New Jersey in May 2020 with a BS in Biology and BA in Anthropology, I spent the last year as a Green Iowa AmeriCorps member, where I served as the Marketing and Communications Support Coordinator for Trees Forever, a local Iowa non-profit. I worked on community outreach projects, educating the public about the importance and benefits of trees, while working to advance my science communication skills and was awarded a Governor's Volunteer Award for Outstanding Service.

Delayed last summer because of COVID, I was finally able to take a research trip to Alaska this summer to help my undergraduate advisor collect populations of

Alaskan stickleback (and do some bonus exploring). This fall I have started my masters degree at Oklahoma State University in the Plant Biology Ecology and Evolution department. I plan to study tropical forest ecology in Costa Rica, looking at the effects of fungal disease spillover from coffee plantations into forests. I am interested in investigating how this interaction affects seedling survival rate in the forest understory, especially with increasing drought and climate change.

Submitted by Rilla McKeegan

I am just finishing up my senior thesis (final draft was due to my advisor today!) and am excited to get some rest this weekend. My thesis was on thermodynamic modeling of subduction zones and the density evolution of mafic melanges.

I'm actually going to Princeton next year to start a PhD with Blair Schoene! I'm probably going to be working on the Deccan Traps project, possibly looking at CO₂ fluxes from contact metamorphism. With Mason and Ian already there, that makes 3 Princeton PhD students from our NHRE cohort! I'm so excited!

Footnote by Mason Scher

Ian Ocampo, Rilla McKeegan, and Mason Scher were all part of NHRE 2018 and now attend graduate school together in the same department! Ian is a PhD candidate (G3), Mason is a G2, and Rilla just joined as a G1 this fall in the Department of Geosciences at Princeton University.



Ian Ocampo, Rilla McKeegan and Mason Scher in front of the geoscience building at Princeton

NHRE Class of 2019

Submitted by Regina Fairbanks

I'm SO EXCITED to share that I will starting my PhD in Population Biology at the University of California, Davis this fall! I'll be studying the evolutionary genomics of maize and developments in plant-human interactions over time and space.

I'm incredibly grateful for support from my family (in particular my late grandparents), folks from the Penn Museum, friends from the Smithsonian REU, and mentors from the Penn Biology Department who fostered my interests in science, the ancient past, and museums.



Submitted by Srishti Sadhir

I have been enjoying graduate school and recently started my second year as a PhD student at Duke University. Lots of exciting research in the works! I am narrowing in on my dissertation project, which will focus on quantifying metabolic limits to human pregnancy and analyzing other aspects of female reproductive health from an energetics perspective.



I've embarked on several side projects related to this research theme. I received a grant to study the reproductive energetics of ruffed and ring-tailed lemurs at the Duke Lemur Center (home of Zoboomafoo, the lemur from the beloved childhood TV show of the same name).

I am also actively mentoring undergraduate students on thesis projects and serving as lab instructor for a human osteology course. For fun, I've been exploring much of what North Carolina has to offer, including the Blue Ridge and Great Smoky Mountains.

Submitted by Jack Boyette

Last year I was awarded the Marvalee and David Wake Award for Best Student Presentation by SICB's Division of Phylogenetic and Comparative Biology! I presented a talk titled "Evolution of non-visual opsin genes across life history transitions in frogs," which is based on research I started as an NHRE intern with Rayna Bell and Ryan Schott in 2019.

Here we list all professional presentations given by NHRE alumni. If you published your NHRE research or presented it at a conference and you don't see it listed here, please let us know.

NHRE Publications

- Anzaldo, S. S., J. Dombroskie, and J. W. Brown. 2014. Morphological Variation, Taxonomic Distribution, and Phylogenetic Significance of Cornuti in Tortricinae (Lepidoptera: Tortricidae). *Proceedings of the Entomological Society of Washington* 116(1):1-31.
- Blaimer, B. B., M. W. Lloyd, W. X. Guillory, and S. G. Brady. 2016. Sequence Capture and Phylogenetic Utility of Genomic Ultraconserved Elements Obtained from Pinned Insect Specimens. *Plos One* 11(8).
- Castillo, S., and T. Dikow. 2017. Taxonomic revision of *Plyomydas* Wilcox & Papavero, 1971 with the description of two new species and its transfer to Mydinae (Insecta: Diptera: Mydidae). *Revista Brasileira de Entomologia* in press.
- Davis, F. A., E. Cottrell, S. K. Birner, J. M. Warren, and O. G. Lopez. 2017. Revisiting the electron microprobe method of spinel-olivine-orthopyroxene oxybarometry applied to spinel peridotites. *American Mineralogist* 102(1-2):421-435.
- Gutierrez, E. E., J. E. Maldonado, A. Radosavljevic, J. Molinari, B. D. Patterson, J. M. Martinez, A. R. Rutter, M. T. R. Hawkins, F. J. Garcia, and K. M. Helgen. 2015. The Taxonomic Status of *Mazama bricenii* and the Significance of the Tachira Depression for Mammalian Endemism in the Cordillera de Merida, Venezuela. *PLoS ONE* 10(6).
- He, K., N. Woodman, S. Boaglio, M. Roberts, S. Supekar, and J. E. Maldonado. 2015. Molecular Phylogeny Supports Repeated Adaptation to Burrowing within Small-Eared Shrews Genus of *Cryptotis* (Eulipotyphla, Soricidae). *Plos One* 10(10).
- Lewis, C., B. Bentlage, A. Yanagihara, W. Gillan, J. Van Blerk, D. P. Keil, A. E. Bely, and A. G. Collins. 2013. Redescription of *Alatina alata* (Reynaud, 1830) (Cnidaria: Cubozoa) from Bonaire, Dutch Caribbean. *Zootaxa* 3737(4):473-487.
- Miller, J. H., A. K. Behrensmeyer, A. Du, S. K. Lyons, D. Patterson, A. Toth, A. Villasenor, E. Kanga, and D. Reed. 2014. Ecological fidelity of functional traits based on species presence-absence in a modern mammalian bone assemblage (Amboseli, Kenya). *Paleobiology* 40(4):560-583.
- Monsalve, S., J. J. Dombroskie, W. H. Y. Lam, J. Rota, and J. W. Brown. 2011. Variation in the Female Frenulum in Tortricidae (Lepidoptera). Part 3. Tortricinae. *Proceedings of the Entomological Society of Washington* 113(3):335-370.
- Nielsen, M., and M. Buffington. 2011. Redescription of *Stentorceps* Quinlan, 1984 (Hymenoptera: Figitidae), with a description of five new species. *African Entomology* 19(3):597-613.
- Ravin, I. S., and S. W. Lingafelter. 2015. Review of the genus *Urgleptes* Dillon (1956) of Hispaniola (Coleoptera, Cerambycidae, Acanthocinini): descriptions of five new species and one new synonymy. *ZooKeys* (532):55-85.
- Romero, A. N., M. Herlin, M. Finnilä, M. Korkalainen, H. Håkansson, M. Viluksela, and S. B. Sholts. 2017. Skeletal and dental effects on rats following in utero/lactational exposure to the non-dioxin-like polychlorinated biphenyl PCB 180. *PLOS ONE* 12(9):e0185241.
- Stull, G. W., W. A. DiMichele, H. J. Falcon-Lang, W. J. Nelson, and S. Elrick. 2012. Palaeoecology of *Macroneuropteris scheuchzeri*, and its implications for resolving the paradox of 'xeromorphic' plants in Pennsylvanian wetlands. *Palaeogeography Palaeoclimatology Palaeoecology* 331:162-176.

- Stull, G. W., C. C. Labandeira, W. A. Dimichele, and D. S. Chaney. 2013. The "Seeds" on *Padgettia readi* Are Insect Galls: Reassignment of the Plant to *Odontopteris*, the Gall to *Ovofoligallites* N. Gen., and the Evolutionary Implications Thereof. *Journal of Paleontology* 87(2):217-231.
- Tóth, A., S. K. Lyons, and A. K. Behrensmeyer. 2014. A Century of Change in Kenya's Mammal Communities: Increased Richness and Decreased Uniqueness in Six Protected Areas. *PLoS ONE* 9(4).
- Tóth, A., S. K. Lyons, and A. K. Behrensmeyer. 2014. Mammals of Kenya's protected areas from 1888 to 2013. *Ecological Archives*:E095-E150.
- Woodman, N., and S. A. Gaffney. 2014. Can They Dig It? Functional Morphology and Semifossoriality Among Small-Eared Shrews, Genus *Cryptotis* (Mammalia, Soricidae). *Journal of Morphology* 275 (7):745-759.
- Woodman, N., and F. A. Stabile. 2015. Functional Skeletal Morphology and Its Implications for Locomotory Behavior Among Three Genera of Myosoricine Shrews (Mammalia: Eulipotyphla: Soricidae). *Journal of Morphology* 276(5):550-563.
- Woodman, N., and F. A. Stabile. 2015. Variation in the myosoricine hand skeleton and its implications for locomotory behavior (Eulipotyphla: Soricidae). *Journal of Mammalogy* 96(1):159-171.
- Markee, A., and T. Dikow. 2018. Taxonomic revision of the assassin-fly genus *Microphontes* Londt, 1994 (Insecta, Diptera, Asilidae). *African Invertebrates* 59(2):195-237.

NHRE Presentations

- Rowsey, D.; Helgen, K. 2012. Species boundaries of brushtail possums. Annual Meeting of the Gilbert Ichthyological Society (Oral presentation).
- Toth, A.B.; Behrensmeyer, A.K.; Lyons S.K. 2012. Increased diversity and decreased uniqueness in Kenyan mammal communities over the past century. Ecological Society of America Annual Meeting (Oral presentation).
- Deczynski, A; Chamorro, M L; Konstantinov, A S. 2011. Morphology of the head and associated structures in New World Cryptocephalini (Coleoptera: Chrysomelidae: Cryptocephalinae). Entomological Society of America Annual Meeting (Poster presentation).
- Corrigan, C. M.; Cohen, B. A.; Hodges, K.; Lunning, N. G.; Bullock E. S. . 2012. 3.9 Billion Years Ago and the Asteroid Belt: Impact Melts in Ordinary Chondrites. 43rd Lunar and Planetary Science Conference (Poster presentation).
- Lavine, R. J., Wagner, P. J.; Erwin, D. H. 2011. A phylogenetic dissection of the gastropod subfamily Knightitinae across the Permian-Triassic boundary. Geological Society of America Annual Meeting (Oral presentation).
- Kuwahara, A; Meyer, C; Collins, A. 2013. Assessing Autonomous Reef Monitoring Structures (ARMS) as Biodiversity Monitors. Society for Integrative and Comparative Biology Annual Meeting (Oral presentation).
- Lopez, O; Cottrell, E; Warren, J. 2012. Upper mantle oxygen fugacity in ridge and subduction zone settings recorded by spinel peridotite. Fall Meeting of the American Geophysical Union (Poster presentation).
- Goots, Alexis; Bruwelheide, Kari; Owsley, Doug. 2013. Post-traumatic bone loss in Civil War soldiers. Meeting of the American Association of Physical Anthropologist (Poster presentation).
- Rowsey, Dakota M; Helgen, Kristofer M. 2013. Species boundaries of brushtail possums in the Queensland wet tropics. Annual Meeting of the American Society of Mammologists (Poster presentation).
- Imfeld, Tyler S; Chaput, Dominique; Santelli, Cara M. 2013. The effect of nutrients on the growth and manganese oxidation of fungi and bacteria. Ecological Society of America Annual Meeting (Poster presentation).

- Atta, Calder J; LaFlamme, Marc; Sessa, Jocelyn A; Tweedt, Sarah; Erwin, Douglas H. 2012. Taphonomic biases influencing exceptionally preserved *Naraoia* from the Burgess Shale. Geological Society of America Annual Meeting (Poster presentation).
- Jagani, Sheel; Rick, Torben; Hofman, Courtney. 2011. Ancient Oyster Fisheries of the Chesapeake Bay: Methods and Implications. Annual Meeting of the Society for American Archaeology (Poster presentation).
- Burke, Janet; Behrensmeyer, Anna K; Badgley, Catherine; Barry, John; Lyons, S Kathleen. 2014. Assessing the impact of time-averaging on a Miocene vertebrate fauna from northern Pakistan. North American Paleontological Convention (Poster presentation).
- Ramirez, Gabrielle; Andrews, Benjamin; Dennen, Robert. 2013. Transport and sedimentation in unconfined experimental dilute pyroclastic density currents. Fall Meeting of the American Geophysical Union (Poster presentation).
- Stabile, F; Woodman, N. 2014. Functional limb morphology of African myosoricine shrews (Mammalia, Soricidae). Society for Integrative and Comparative Biology Annual Meeting (Poster presentation).
- Keil, K; Osborn, K. 2014. Associations between hyperiid amphipods and gelatinous zooplankton. Society for Integrative and Comparative Biology Annual Meeting (Poster presentation).
- Lavin, Luke; Bell, Joshua. 2012. Exploring the Collections and Relations of A.C. Haddon At the Smithsonian. American Anthropological Association Annual Meeting (Oral presentation).
- Gil, J; Watson, W. 2014. Improving the learning experience of museum visitors: Examining different types of experience in the Genome: Unlocking Life's Code exhibit. Ocean Sciences Meeting (Poster presentation).
- Kandlikar, Gauruv; Freund, Forrest; Johnson, Gabriel; Taylor, W. Carl; Zimmer, Elizabeth. 2014. Chloroplast DNA reveals uniparental plastid inheritance from *Isoetes engelmannii* in two allotetraploid speciation events. Botany 2014 (Poster presentation).
- Zimmer, Elizabeth; Johnson, Gabriel; Nagi, Suzanne; Wollaeger, Heide; Figlar, Richard. 2014. Genetic variability in *Magnolia acuminata* (L.) populations in the United States. Botany 2014 (Poster presentation).
- LaVine, Rhiannon J. 2014. Ecological gradient structure in the Mississippian Lodgepole Formation, southwest Montana. Geological Society of America (Poster presentation).
- Alison Post. 2014. Experimental Evolution of Divergence with Gene Flow: Testing for Local Adaptation in Yeast. Society for the Study of Evolution (Poster presentation).
- Tyler Imfeld. Dominique Chaput. Cara Santelli. 2013. The effect of nutrients on the growth and manganese oxidation of fungi and bacteria. 98th Meeting of Ecological Society of America (Poster presentation).
- A Rutter, J Maldonado, K Helgen, E Gutiérrez. 2014. Neotropical Deer: Morphometrics and Taxonomy of the *Mazama americana* Species Complex (Mammalia: Cervidae). American Society of Mammalogists 94th Annual Meeting (Poster presentation).
- Boas, Caitlin. 2014. Phylogenetics within Bellerophon: breaking down a classic wastebasket taxon. GSA Annual Meeting (Poster presentation).
- Cooper, G; Bell, J. 2014. Fixing Things: The Politics and Techniques of Cell Phone Repair. 2014 Annual Meeting for the Society For Applied Anthropology (Poster presentation).
- Hill K. N. Bullock E. S. Corrigan C.M. McCoy T. J.. 2014. Unscrambling the History of Enstatite Chondrites. 45th Lunar & Planetary Science Conference (Poster presentation).
- Katie Keil. 2013. Associations between hyperiid amphipods and gelatinous zooplankton. Society of Integrative & Comparative Biology (Poster presentation).
- Jackson, C M; Cottrell, E; Kelley, K A. 2010. Mineral-melt partitioning of V and Sc at arcs: implications for

- mantle wedge oxygen fugacity. Fall Meeting of the American Geophysical Union (Poster presentation).
- Wall, K; Davis, F A; Cottrell, E. 2014. Oxygen fugacity recorded by xenoliths from Pacific oceanic islands. Geological Society of America (Poster presentation).
- Cohen, Christopher; Dikow, Torsten. 2014. Taxonomic revision of the robber-fly genus *Leptopteromyia* Williston, 1907. Annual Meeting of the Entomological Society of America (Oral presentation).
- Cabrero, Alan; Dikow, Torsten. 2014. Taxonomic revision of the robber-fly genus *Acronyches* (Diptera: Asilidae). Annual Meeting of the Entomological Society of America (Oral presentation).
- Snider, A; Knowlton, N; Al-Rshaidat, M; Leray, M. 2014. Barcoding and metabarcoding the cryptofauna of the northern Red Sea. Western Society of Naturalists (Poster presentation).
- Lyons, S K; Toth, A; Behrensmeyer, A K. 2012. Changes in mammal community structure in Kenya over the last 100 years. Annual Meeting of the American Society of Mammalogists (Oral presentation).
- Toth, A; Behrensmeyer, A K; Miller, J; Lyons, S K. 2013. Species richness, community dynamics, and time-averaging in recent Kenyan ecosystems. 10th North American Paleontological Convention (Oral presentation).
- Marshall, B; Andrews, B J; Fauria, K. 2015. What's all the talc about? Entrainment in dilute pyroclastic density currents. American Geophysical Union Fall Meeting (Poster presentation).
- Miller, H; Rogers, J D. 2015. Using agent-based modeling to examine the effects of social connectivity on resilience. Annual Meeting of the American Association of Geographers (Poster presentation).
- Ehlinger, S. Q.; Wendler, J. E.; Wendler, I.; Huber, B. T.; Macleod, K. 2010. Influence of early diagenesis on foraminiferal shell chemistry and isotope signatures: Results from the Tanzania Drilling Project. Annual Meeting of the Geological Society of America (Poster presentation).
- Rodriguez-Russo, C. A.; Huber, B. T.; Macleod, K. G. 2010. Subtropical Turonian stable isotope ratios from "glassy" foraminifera : No evidence for greenhouse ice sheets. Annual Meeting of the Geological Society of America (Poster presentation).
- Huber, B. T.; Macleod, K. G.; Bryant, R. M.; and Dickie, M. 2014. Oxygen isotope paleotemperatures across the Cretaceous Super greenhouse at southern high latitudes (Naturaliste and Agulhas Plateau). Annual Meeting of the Geological Society of America (Oral presentation).
- Wall, K; Cottrell, E. 2014. Oxygen fugacity recorded by xenoliths from Pacific oceanic islands. Fall Meeting of the American Geophysical Union (Poster presentation).
- Cottrell, E; Davis, F; Birner S K; Warren, J M; Wall, K. 2014. Oxybarometry of peridotites from various tectonic settings. Annual Meeting of the Geological Society of America (Oral presentation).
- Birner, S.K.; Warren, J.M.; Cottrell, E.; Lopez, O.G.; Davis, F.A.; Falloon, T.J. 2014. Oxygen Fugacity Variations Among Tonga Trench Forearc Peridotites. Goldschmidt Geochemical Conference (Oral presentation).
- Birner, S.K.; Warren, J.M.; Cottrell, E.; Lopez, O.G.; Davis, F.A.; Falloon, T.J. 2013. Variations in Oxygen Fugacity among Forearc Peridotites from the Tonga Trench. Fall Meeting of the American Geophysical Union (Oral presentation).
- Herron, S; Wen, J; Zimmer, E. 2015. Nuclear and Chloroplast Sequences Resolve the Concord Grape Mystery. Botany 2015 (Poster presentation).
- Rosenfeld, C; Kenyon, J; Santelli, C. 2014. Environmental selenium transformations: Distinguishing abiotic and biotic factors influencing Se redox transformations. Fall Meeting of the American Geophysical Union (Oral presentation).
- Kenyon, J; Rosenfeld, C; Santelli, C. 2015. Investigating the effects of Se on fungal growth and biomineral production. Goldschmidt Conference (Poster presentation).

- Fernandez, A; Hunt, D. 2015. Sex determination from the human sacrum: A re-assessment. Annual Meeting of the American Association of Physical Anthropologists (Poster presentation).
- Lu, Shaina; Chesser, R. Terry. 2015. Patterns of genetic variation in the Australian Grey Fantail complex: *Rhipidura albiscapa* and *Rhipidura phasiana*. Evolution 2015 (Poster presentation).
- Kralick, Alexandra E; Tocheri, Matthew W. 2014. A 3D quantitative comparative analysis of wrist morphology among western and eastern gorillas. Annual Meeting of the American Association of Physical Anthropologists (Poster presentation).
- Sherwood, Kate D; Owsley, Douglas W; Bruwelheide, Kari S; Rouse, Stephen L; Hurlbert, Donald E. 2015. Basketmakers revealed: Physical, CT, and 3D analyses of mummified human remains from the southwest. American Association of Physical Anthropologists (Poster presentation).
- Kate Sherwood. 2015. Basketmakers Revealed. American Association of Physical Anthropologist (Poster presentation).
- Romero, Ashly; Sholts, Sabrina; Hakansson, Helen; Vilukela, Matti. 2016. Craniofacial and dental effects shown in rats following in utero/lactational exposure to 2,2',3,4,4',5,5'-heptachlorobiphenyl (PCB-180). Annual Meeting of the American Association of Physical Anthropologists (Poster presentation).
- Schwartz LC; Gonzalez VL; Goetz FE; Maslakova SA; Wirshing HH; Norenburg JL. 2016. Carcinonemertidae: ribbon worms in search of their family history. SICB Annual Meeting 2016 (Poster presentation).
- Cunningham, Andreana; Hunt, David R; Coolidge, Rhonda H. 2016. Biocultural evidence through taphonomic observations in the Karluk Salmon Cannery Chinese of Kodiak Island, Alaska. Annual Meeting of the American Association of Physical Anthropologists (Poster presentation).
- Galezo, Allison. 2016. Morphometrics of the dolphin genus *Lagenorhynchus*: deciphering a contested phylogeny. Southeast & Mid-Atlantic Marine Mammal Symposium (Poster presentation).
- Kaufman, SV; Corrigan, CC; McCoy, TJ; Bullock, ES. 2016. Mineral Associations in Enstatite Chondrites: Possible Insights into Minerals on Mercury. 47th Lunar and Planetary Science Conference (Poster presentation).
- Obenda, Johann; Pobiner, Briana; Potts, Richard. 2016. The effect of context on visitor responses to the question "What does it mean to be human?". Annual Meeting of the American Association of Physical Anthropologists (Poster presentation).
- Said, Meena; Birner, Suzanne; Cottrell, Elizabeth. 2015. Oxygen Fugacity of Abyssal Peridotites Along the Gakkel Ridge. Fall Meeting of the American Geophysical Union (Poster presentation).
- Plaza-Torres, Stephanie; Wagner, Peter J; Darroch, Simon A F. 2015. A phylogenetic analysis of the brachiopod genus *Leptaena*. Geological Society of America Annual Meeting (Poster presentation).
- Winters, Noah P; Kula, Abigail A R; Kula, Robert R. 2015. Tall grass, small wasps: Measuring the biodiversity of braconid wasps (Hymenoptera: Ichneumonoidea) in two warm season grasslands.. Entomology 2015 (Oral presentation).
- Rondinelli, M; Droege, S; Kula, Abigail A R; Smith, David R; Kula, Robert R. 2015. Is pan trapping an effective method for estimating hymenopteran diversity in grasslands?. Entomology 2015 (Poster presentation).
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- Sorman, Melanie; Fraass, Andrew; Huber, Brian; Acha, Beatrice; Wiggins, John Wesley. 2016. Morphometric and stratophenetic study of the Rotalipora lineage (planktic foraminifera) during the middle and late Cenomanian. Geological Society of America Annual Meeting (Poster presentation).
- Dafoe, Ashley C; Hunt, David R. 2017. The Accuracy of Nutrient Foramen Versus Midshaft Measurements of the Tibia for Sex Determination. Annual Meeting of the American Academy of Forensic Sciences (Oral presentation).
- Florez, D; Andrews, B J. 2017. Entrainment and runout of Martian pyroclastic density currents. Lunar and Planetary Science Conference (Poster presentation).
- Sosa, E S; Lunning, N G; McCoy, T J; Bullock, E S; Corrigan, C M; Gardner-Vandy, K G. 2017. Constraining the petrogenesis of the paired achondrites GRA 06128/9 through partial melting of an oxidized chondrite. Lunar and Planetary Science Conference (Poster presentation).
- Woolard, Katherine; Pobiner, Briana. 2017. Cautionary tales in the use of captive carnivore tooth mark data. Society for American Archaeology (Oral presentation).
- Aoki, N; Mushegian, N; Katija, K; Osborn, K. 2017. Kinematic description of locomotion in tomopterid polychaetes. Meeting of the Association for the Sciences of Limnology and Oceanography (ASLO) (Oral presentation).
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- Brook, Zev; Barclay, Richard S; Wing, Scott L. 2017. Cell size in Ginkgo and the paleo-CO2 proxy. Geological Society of America Annual Meeting (Poster presentation).
- Wood, HM; Flynn, BI. 2018. You Are How You Eat: Chelicerae Orientation and the Diversification of Spiders (Arachnida: Araneae). Society for Integrative and Comparative Biology (Poster presentation).
- Benavidez, B M; Hunt, D. 2018. What teeth can tell you: oral health in two Paleo-Indian populations. American Association of Physical Anthropologists Annual Meeting (Poster presentation).
- Carreon, S; Austin, R; Sholts, S. 2018. Dental Caries Analysis of the Channel Islands. Society for American Archaeology (Poster presentation).
- O'Brien, Elizabeth; Edwards, Robert D; Radosavljevic, Aleksandar; Funk, Vicki. 2018. Patterns of plant endemism and diversity in the Guiana Shield. Botany 2018 (Poster presentation).
- Scher, Mason; Barclay, Richard S; Wing, Scott L. 2018. The effect of CO2 concentration on carbon isotope discrimination in Ginkgo. American Geophysical Union Fall Meeting (Poster presentation).
- Richards, JC; Vecchione, M. 2019. The Diversity and Distribution of Cephalopods in the Charlie-Gibbs Fracture Zone. Society for Integrative and Comparative Biology Annual Meeting (Poster presentation).
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