

Elizabeth Sibert

Hutchinson Fellow, Yale Institute of Biospheric Sciences
Department of Earth and Planetary Sciences
Yale University
elizabeth.sibert@yale.edu / elizabethsibert.com
Phone: +1 339-234-9871 (cell); Elizabeth.Sibert (Skype)

EDUCATION

2016	PhD	Oceanography, Scripps Institution of Oceanography, UC San Diego
2013	MS	Oceanography, Scripps Institution of Oceanography, UC San Diego
2011	BS	Biology and Marine Sciences, University of California, San Diego <i>summa cum laude</i>

ACADEMIC POSITIONS

2020-2022	Hutchinson Fellow, Yale Institute for Biospheric Sciences and Department of Earth and Planetary Sciences, Yale University
2016-2020	Junior Fellow, Harvard Society of Fellows, Harvard University, Cambridge, MA; Affiliated with Department of Organismic and Evolutionary Biology, Department of Earth and Planetary Sciences, and the Museum of Comparative Zoology
2019	Visiting Researcher, Institute for Environmental Science and Technology (ICTA), Autonomous University of Barcelona, Spain
2011-2016	PhD Student and NSF Graduate Research Fellow, Scripps Institution of Oceanography, La Jolla, CA
2015	Peter Buck Predoctoral Fellow, Smithsonian National Museum of Natural History, Washington DC
2010	Woods Hole Oceanographic Institution Summer Student Fellow

PUBLICATIONS (* indicates undergraduate mentee, + indicates masters student mentee)

- Sibert, E.C.**, Zill, M.E., Frigyik, E.T. and Norris, R. D.. *No state change in pelagic fish production and biodiversity during the Eocene–Oligocene transition*. Nature Geoscience (2020). <https://doi.org/10.1038/s41561-020-0540-2>
- Bralower, T. J., Cosmidis, J., Fantle, M. S., Lowery, C. M., Passey, B. H., Gulick, S. P. S., Morgan, J. V., Vajda, V., Whalen, M. T., Wittmann, A., Artemieva, N., Farley, K., Goderis, S., Hajek, E., Kring, D. A., Lyons, S. L., Rasmussen, C., **Sibert, E. C.**, Rodríguez Tovar, F. J., Turner-Walker, G., Zachos, J. C., Carte, J., Chen, S. A., Cockell, C., Coolen, M., Freeman, K. H., Garber, J., Gonzalez, M., Grice, K., Heaney, P. J., Jones, H. L., Schaefer, B., Smit, J., Tikoo, S. M. *The habitat of the nascent Chicxulub crater* (In Press, AGU Advances)
- Kingsbury, C. G., **Sibert, E. C.**, Killingback, Z, and Atchison, C. L. (2020) “*Nothing about us without us:*” *The perspectives of autistic geoscientists on inclusive instructional practices in geoscience education*, Journal of Geoscience Education, <https://doi.org/10.1080/10899995.2020.1768017>
- Hull, P. M., Bornemann, A., Penman, D. E., Henahan, M. J., Norris, R. D., Wilson, P. A., Blum, P., Alegret, L., Batenburg, S. J., Bown, P. R., Bralower, T. J., Cournede, C., Deutsch, A., Donner, B., Friedrich, O., Jehle, S., Kim, H., Kroon, D., Lippert, P. C., Lorch, D.,

- Moebius, I., Moriya, K., Peppe, D. J., Ravizza, G. E., Röhl, U., Schueth, J. D., Sepúlveda, J., Sexton, P. F., **Sibert, E. C.**, Śliwińska, K. K., Summons, R. E., Thomas, E., Westerhold, T., Whiteside, J. H., Yamaguchi, T. and Zachos, J. C. (2020). *On impact and volcanism across the Cretaceous-Paleogene boundary*. *Science* 367(6475): 266-272.
<http://doi.org/10.1126/science.aay5055>
- Sibert, E. C.**, Friedman, M., Hull, P. M., Hunt, G., and Norris, R. D.. *Two pulses of morphological diversification in Pacific pelagic fish following the Cretaceous-Palaeogene Mass Extinction* (2018) *Proceedings of the Royal Society B*. 285 20181194;
<https://doi.org/10.1098/rspb.2018.1194>
- Hsiang, A.Y., Nelson, K., Elder, L.E., **Sibert, E.C.**, Kahanamoku, S.S., Burke, J.E., Kelly, A., Liu, Y., Hull, P.M. (2017) *AutoMorph: Accelerating morphometrics with automated 2D and 3D image processing and shape extraction*. *Methods in Ecology and Evolution*. 2017;00:1–8. <https://doi.org/10.1111/2041-210X.12915>
- Sibert, E.C.**, Cramer, K.L., Hastings, P.A, and Norris, R.D. (2017) *Methods for isolation and quantification of microfossil fish teeth and elasmobranch dermal denticles (ichthyoliths) from marine sediments*. *Palaeontologia Electronica* 20.1.2T:1-14. <http://palaeo-electronica.org/content/2017/1800-quantifying-ichthyoliths>; <https://doi.org/10.26879/677>
- Sibert, E.C.**, Norris, R.D., Cuevas, J.M*, and Graves, L.G*. (2016) *Eighty-five million years of Pacific Ocean gyre ecosystem structure: long-term stability marked by punctuated change*. *Proceedings of the Royal Society B*. 283: 20160189.
<http://dx.doi.org/10.1098/rspb.2016.0189>
- Sibert, E.C.**, and Norris, R.D. (2015) *New Age of Fishes initiated by the Cretaceous– Paleogene mass extinction*. *Proceedings of the National Academy of Sciences* 112(28):8537-8542.
<http://dx.doi.org/10.1073/pnas.1504985112>
- Sibert, E.C.**, Hull, P.M., & Norris, R.D. (2014) *Resilience of Pacific pelagic fish across the Cretaceous/Palaeogene mass extinction*. *Nature Geoscience* 7(9): 667-670
<http://dx.doi.org/10.1038/ngeo2227>
- Bagulayan, A., J.N. Bartlett-Roa, A.L. Carter, B.G. Inman, E.M. Keen, E.C. Orenstein, N.V. Patin, K.N.S. Sato, **E.C. Sibert**, A.E. Simonis, A.M. Van Cise, and P.J.S. Franks. (2012) *Journey to the center of the gyre: The fate of the Tohoku Tsunami debris field*. *Oceanography* 25(2):200–207, <http://dx.doi.org/10.5670/oceanog.2012.55>

Submitted and in review

Sibert, E. C., and Rubin, L. *An early Miocene extinction of pelagic sharks* (in revision)

Britten, G. L.*, and **Sibert, E. C.*** *Do fish like it hot? Enhanced fish production during a period of extreme global warmth* (in revision, *co-first authorship)

Non-peer reviewed articles

Cooke, M., C. R. Child, **E. C. Sibert**, C. von Hagke, and S. G. Zihms (2020), *Caption this! Best practices for live captioning presentations*, *Eos*, 101, Published on 09 October 2020.
<https://doi.org/10.1029/2020EO150246>.

Sibert, E.C. (2017) *Evolution of the pelagic ecosystem: a history written in tiny teeth*. *The Marine Biologist* Issue 8, April 2017. <http://www.mba.ac.uk/evolution-pelagic-ecosystem-history-written-tiny-teeth>

Sibert, E. C. *A framework for quantifying morphological variation in microfossil fish teeth and associated R package, ichthyoliths* (manuscript in prep; R package, in development, available at github.com/esibert/ichthyoliths)

FELLOWSHIPS, GRANTS, AWARDS, SHORT COURSES, AND RESEARCH TRAVEL

Fellowships and Grants

- 2020 Yale Teaching Innovation Project Grant (\$1000)
- 2020 Yale Institute for Biospheric Sciences Hutchinson Fellowship
- 2020 International Ocean Discovery Program (IODP) Expedition Participant Award:
~\$48,000, exact amount to be determined in Jan 2020
- 2019 Visiting Researcher Grant – ICTA, Autonomous University of Barcelona
- 2018 Project COD-REMAP (collaborator), SPG grant from NSERC-Canada, total grant:
\$685,371 (Canadian)
- 2017 Harvard University Milton Fund (\$50,000)
- 2016 Harvard Society of Fellows Postdoctoral fellowship
- 2016 NSF Postdoctoral Research Fellowship in Biology (*declined*)
- 2016 University of Michigan Society of Fellows (*declined*)
- 2015 Smithsonian Institution Peter Buck Predoctoral Fellowship (\$8000)
- 2015 NSF Graduate Research Internship Program (GRIP) Award (\$4000)
- 2012 American Philosophical Society Lewis and Clark Scholar in Astrobiology
\$4500 field grant
- 2011 National Science Foundation Graduate Research Fellowship (\$30,000 annually for
three years plus \$8000-\$9000 for tuition)
- 2010 Woods Hole Oceanographic Institution Summer Student Fellow

Awards and Travel/Workshop grants

- 2018 USSSP Scholarship to attend the Petrophysics Summer School, University of
Leicester, UK
- 2017 Chancellor's Dissertation Medal, UC San Diego
- 2014 NSF Scholarship to attend IsoAstro workshop at University of Wisconsin, Madison
- 2014 Student travel grant to North American Paleontology Convention
- 2013 Student travel grant to 11th International Conference on Paleoceanography
- 2012 Outstanding Student Paper Award at AGU Fall Meeting
- 2012 NSF Scholarship to attend the Urbino Summer School in Paleoclimateology
- 2012 Poster Award, Cioppino Conference at Urbino Summer School in Paleoclimateology
- 2010 Travel grant to attend the 10th International Conference on Paleoceanography
- 2010 Class of 2010 NOAA Hollings Scholar
- 2010 William H. Stout Merit Scholarship, UC San Diego

Research travel, Short Courses, and Field Experience

- 2020 Physical Properties Specialist IODP Expedition 378: South Pacific Paleogene Climate
- 2018 *Petrophysics Summer School*, University of Leicester, UK (July 2018)
- 2017 Agouron Institute Advanced Geobiology Field School, Little Ambegris Cay, Turks
and Caicos, B.W.I. (August 2017)
- 2017 IODP Early Career Researcher Workshop, Austin TX (Jan 2017)
- 2015 Visiting Graduate Student, University of Oxford Department of Earth Sciences

- 2014 *The College Classroom: teaching pedagogy through the Center for Teaching Development at UC San Diego*
 2014 *IsoAstro Workshop*, University of Wisconsin Madison (August 2014)
 2012 *Urbino Summer School in Paleoclimatology*, Urbino, Italy (July 2012)
 2012 Paleooceanography field work in central Italy
 2010 Research assistant, *CalEchoes Cruise* (9 days), sediment, fish, and plankton sampling

TEACHING AND MENTORING

Teaching

- 2016-2020 Guest lectures in various university courses. (The Harvard Society of Fellows does not allow Junior Fellows to teach courses or advise graduate students)
 2011-2015 Laboratory Instructor for *Paleobiology and the History of Life* (upper division and graduate-level); Develop, organize, teach, and grade twice-weekly labs, write and administer midterm and final laboratory exams, organize and assist with field trips to accompany lecture course (5 years, annually)
 2013 Instructor of record, Academic Connections *Introduction to Paleontology* course
 2011 Co-instructor of record, Academic Connections *Evolution of a Planet* course
 2011 Teaching Assistant: *BILD 3: Ecology and Evolution* (introductory level)
 2010 Teaching Assistant: *Introduction to Biological Oceanography* (upper division)
 2009-2011 Reader, UCSD Mathematics Department for *Math 20C: Multivariable Calculus for Scientists and Engineers*

Mentoring

(COA: College of the Atlantic; SIO: Scripps Institution of Oceanography; UCSD: Univ. of Calif. San Diego; USD = Univ. of San Diego; SURF: Scripps Undergraduate Research Fellowship summer program)

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|-----------|---|------------------------------------|
| 2018-2019 | Ella Frigyik
<i>Eocene-Oligocene Fish diversification</i> | Harvard Undergraduate Student |
| 2018-2019 | Jenn Greiner
<i>Scotia Shelf Fish communities</i> | Harvard Undergraduate Student |
| 2018 | Jacob Licht
<i>Anglerfish tooth morphology and its applications to the fossil record</i> | Harvard Undergraduate Student |
| 2018 | Greta Wong
<i>Record of marine productivity and fish abundance in the middle Miocene</i> | Harvard Undergraduate Student |
| 2017-2019 | Monica Marion
<i>Survey of Modern Fish Tooth Morphology</i> | Recent Harvard Graduate |
| 2017-2020 | Leah Rubin
<i>Shark denticle morphometrics and 20 Ma extinction</i> | COA Undergraduate Intern |
| 2017-2018 | Raashid Chowdhury
<i>Fish skull database and tooth functional morphology</i> | Northeastern Undergraduate Student |
| 2017 | Matthew Moody
<i>OAE1a Phosphate/Oxygen Isotopes</i> | Harvard Undergraduate Student |
| 2015-2016 | Kimberly McComas
<i>Sapropel fish productivity</i> | SIO Masters Student |
| 2016 | Betty Foreman
<i>Fish at Oceanic Anoxic Event 2</i> | UCSD Undergrad Independent Study |
| 2016 | Jacques Lyakov | UCSD Undergrad Independent Study |

2016	<i>Fish Tooth Taphonomy</i> Teng Gao	UCSD Undergrad Volunteer
2014-2016	<i>Fish tooth methods protocols</i> Michelle Zill	SIO Masters Student Began as UCSD undergrad independent study, masters from 4/2015
2014-2016	<i>Eocene-Oligocene Fish production and diversity</i> Jose Cuevas	USD Undergrad Intern University of San Diego undergraduate student
2012-2015	<i>Fish productivity in ocean gyre systems in the Oligocene and Miocene</i> Douglas Tomczik	SIO Masters Student
2014-2015	<i>Fish Production and Diversity across the Paleocene-Eocene Thermal Maximum</i> Raquel Bryant	SURF SIO Summer Student 2014 Brown University undergraduate, senior thesis advised through 2015
2014	<i>Paleocene-Eocene Ichthyoliths from Demerera Rise Site 1258</i> Eric Schwab	UCSD Undergrad Volunteer
2013-2014	<i>Miocene Ichthyoliths</i> Lana Graves	UCSD Undergrad Independent Study
2013	<i>An Eocene-Oligocene Record of Ichthyoliths from the North Pacific</i> Matthew Howard	UCSD Undergrad Independent Study
2013	<i>OAE 2 Ichthyoliths</i> Tiffany Horiguchi	UCSD Undergrad Volunteer
2013	<i>Modern Shark Denticle Morphology</i> Monika Krach	Volunteer, Scripps MAS Student
2012	<i>Sapropel Fish Teeth</i> Matthias Scheer	UCSD Undergrad Independent Study
2012	<i>Modern Clupeiform Ichthyolith Taxonomy</i> Christopher Ladwig	UCSD Undergrad Volunteer
	<i>Modern Mesopelagic Ichthyoliths</i>	

PRESENTATIONS

Invited Departmental Seminars

2020	University of California Santa Cruz Earth Science Seminar
2020	Yale Institute of Biospheric Sciences Seminar
2020	University of California Museum of Paleontology (UCMP) Seminar
2020	University of Kentucky Earth System Seminar
2020	University of Victoria, SEOS Seminar
2019	Fredrich Alexander University Erlangen, Germany, Paleobiology Seminar
2019	Dalhousie University Biology Seminar
2019	Institute of Natural Sciences and Technology, Barcelona Spain, Seminar
2019	Institute of Natural Sciences and Technology, Barcelona Spain 2-day Workshop
2019	Scripps Institution of Oceanography Ecology Seminar
2019	University of Basel, Zoological Sciences Seminar
2019	Eawag, University of Bern, Switzerland, Evolution Seminar
2019	Yale University Geology and Geophysics Department Seminar
2019	Kent State University Department of Geology Seminar
2018	MIT Earth, Atmospheric and Planetary Sciences Seminar

2018	University of Connecticut Department of Geosciences
2018	University of Arizona Geosciences Seminar
2017	College of the Atlantic, Climate Change Seminar Series Speaker
2017	University of Massachusetts, Lowell Biology seminar
2017	McGill University Earth and Planetary Sciences Seminar
2017	University of Utah Geology and Geophysics Seminar
2016	Harvard Museum of Comparative Zoology Seminar
2016	Scripps Institution of Oceanography Institutional Seminar
2015	Yale Department of Geology and Geophysics Paleo group seminar
2015	Oxford University Palaeo group Seminar
2015	National Oceanographic Center, University of Southampton invited seminar

Select Conference Presentations (*undergraduate mentee)

- Sibert, E. C.** (2020) *The Missing Early Miocene: Evidence for a major hiatus in the Early Miocene marine sedimentary record*, American Geophysical Union Fall Meeting, virtual, December 1-17, 2020 (Oral Presentation)
- Sibert, E. C.,** Bhatia, R, Davis, C. V., Fraass, A. J., and Hall, C (2020) *Pal(a)eo PERCS: A virtual, international seminar featuring Early Career Researchers in Palaeo-sciences*, American Geophysical Union Fall Meeting, virtual, December 1-17, 2020 (Poster Presentation)
- Sibert, E. C.,** and Britten, G.L. (2020) *Do fish like it hot? Enhance fish production during a period of extreme global warmth*, Geological Society of America Meeting, Virtual, Oct 26-30, 2020 (Oral presentation)
- Sibert, E. C.,** and Rubin, L. R*., (2019) *A 19-million year old pelagic ecosystem state change revealed by mass extinction of sharks*. Geological Society of America Meeting, Phoenix, AZ, Sept 22-25, 2019 (Oral presentation)
- Sibert, E. C.,** and Marion, M. M., (2019) *Untangling fish taxonomy and ecology from isolated microfossil ichthyoliths: A perspective from modern fish morphology*, International Conference on Paleooceanography, Sydney, Australia, Sept 1-6, 2019 (Poster presentation)
- Sibert, E. C.,** and Rubin, L.R*.* (2019) *A Mass Extinction of Sharks 19 Million Years Ago*, North American Paleontological Convention, Riverside, CA, June 23-27, 2019 (Oral Presentation)
- Sibert, E. C.,** Zill, M. E., Frigyk, E. T., and Norris R. D (2019) *A fishy perspective on the Eocene-Oligocene Transition* Amherst, MA, March 30, 2019 (Oral presentation)
- Sibert, E. C.** (2018) *Using microfossil ichthyoliths to unravel the connection between climate, fish abundance, and marine ecosystem productivity in deep time*, Ocean Sciences Meetings, Portland OR, Feb 11-16, 2018 (Oral presentation).
- Sibert, E. C.** (2018) *Rapid diversification of open ocean fish and marine communities following the K/Pg mass extinction*. Society for Integrative and Comparative Biology Annual Meeting, San Francisco, CA, Jan 3-7 2018 (Oral presentation).
- Sibert, E. C.** (2017) *Investigating the link between fish community structure and environmental state in deep-time*. American Geophysical Union Fall Meeting, New Orleans, LA, Dec 11-15, 2017 (invited oral presentation).
- Sibert, E. C.** (2017) *Sequential shifts in fish community structure and ecological role following the K/Pg mass extinction*. Geological Society of America Meeting, Seattle, WA, Oct 22-25, 2017 (Oral Presentation).

- Sibert, E. C.** and R. D. Norris (2017) *Fish productivity, community structure and evolution decoupled following the Cretaceous/Paleogene mass extinction*. Climatic and Biotic Events of the Paleogene meeting, Snowbird, UT, Sept 4-7, 2017 (Oral Presentation).
- Sibert, E. C.**, M. Friedman, P. M. Hull, G. Hunt, and R. D. Norris. (2016) *Evidence for disaster fauna, two phases of diversification of pelagic fish in the aftermath of the K/Pg mass extinction*. Geological Society of America Annual Meeting, Denver, CO, Sep 25-28, 2016 (Oral Presentation).
- Sibert, E. C.** and R. D. Norris. (2016) *Ecosystem evolution in a greenhouse world: fish evolution and community structure is decoupled from fish production in the Paleogene*. International Conference on Paleooceanography, Utrecht, the Netherlands, Aug. 29-Sep. 2, 2016 (Poster presentation).
- Sibert, E. C.**, M. S. Friedman, P. M. Hull, G. Hunt, and R. D. Norris. (2016) *Stable pelagic vertebrate community structure through extreme Paleogene greenhouse conditions*. Ocean Sciences Meeting, New Orleans, LA, Feb. 21-26, 2016 (Oral Presentation).
- Sibert, E. C.**, Norris, R. D., Cuevas, J. M.*, Graves, L. G.* (2015) *85 million years of pelagic ecosystem evolution: Pacific Ocean deep-sea ichthyolith records reveal fish community dynamics and a long-term decline in sharks*. American Geophysical Union Fall Meeting, San Francisco, CA, Dec. 14-18, 2015 (Oral presentation)
- Sibert, E. C.**, Zill, M. E.*, Bryant, R. M.*, Graves, L. G.*, and Norris, R. D. (2014) *Fish like it Hot? The response of ichthyolith accumulation to changing climates of the Paleogene*. American Geophysical Union Fall Meeting, San Francisco, CA. Dec 15-19, 2014 (Oral Presentation)
- Sibert, E. C.** and Norris, R. D. (2014) *The Cretaceous-Paleogene Mass Extinction: Beginning in a new Age of Fishes?* Geological Society of America Annual Meeting, Vancouver, BC. October 19-22, 2014 (Oral Presentation)
- Sibert, E. C.** and Norris, R. D. (2014) *The Cretaceous-Paleogene Mass Extinction: Beginning in a new Age of Fishes?* Inaugural Scripps Student Symposium, La Jolla, CA. September 16, 2014 (Poster)
- Sibert, E. C.** and Norris, R. D. (2014) *The Cretaceous-Paleogene Mass Extinction: Ringing in a new Age of Fishes?* Southern California Geobiology Symposium, Univ. of Southern California, Los Angeles, CA. April 5, 2014 (Poster Presentation)
- Sibert, E. C.** and Norris, R. D. (2014) *An increase in complexity of pelagic fish community structure following the Cretaceous-Paleogene mass extinction*. North American Paleontological Convention, Gainesville, Florida. February 15-18, 2014. (Oral Presentation)
- Sibert, E. C.**, Franks, P. J. S., and Norris, R. D. (2013) *Pelagic ecosystem recovery after the Cretaceous-Paleogene Mass Extinction: insights from ichthyoliths and a trophic transfer model*. International Conference on Paleooceanography, Sitges, Spain, Sept 1-6 2013. (Poster)
- Sibert, E. C.** and Norris, R. D. (2013) *Using Ichthyoliths as a proxy for upper trophic level dynamics through Earth History*. Southern California Geobiology Symposium, CalTech, Los Angeles, CA, April 2013. (Oral Presentation)
- Sibert, E. C.**, Hull, P. M., and Norris, R. D. (2012) *Using Ichthyoliths to Determine the Fish Response to the End-Cretaceous Mass Extinction*, AGU Fall Meeting, San Francisco, December, 2012. (Poster)

Sibert, E. C., Hull, P. M., and Norris, R. D. (2012) *Ichthyoliths: Development of a novel proxy for upper trophic levels of oceanic food webs*, Cioppino Conference, Urbino, Italy. July 22, 2012. (Poster)

Sibert, E. C., Hull, P. M., and Norris, R. D. (2010) *A high-resolution record of the flux of fish teeth and other ichthyoliths across the Cretaceous – Paleogene Boundary in the North Pacific (ODP Site 1209, Shatsky Rise)*. International Conference on Paleoceanography, San Diego, CA. August 29-September 3, 2010. (Poster)

Select Conference Abstracts, contributor (*undergraduate mentee, + masters student mentee)

Davis, C. V., and **Sibert, E.C.** (2020) *Geographic extent and drivers of Pliocene Oxygen Minimum Zones*, American Geophysical Union Fall Meeting, virtual, December 1-17, 2020

Rubin, L. D*., and **Sibert, E. C.** (2020) *Determining ancient shark diversity: using dermal denticles preserved in deep-sea sediments to study Cenozoic marine predator dynamics*, Geological Society of America Meeting, Virtual, Oct 26-30, 2020

Gomes, M., Howard, C., Trower, E. J., **Sibert, E. C.**, Present, T. M., and Lingappa, U. (2020) *Carbon isotope signatures in microbial mat carbonates – how do different carbonate components record information about local versus global carbon cycling?* Geological Society of America Meeting, Virtual, Oct 26-30, 2020

Lowrey, C. M., and **Sibert, E. C.**, (2019) *A Comprehensive Biological Oceanographic Expedition to Determine the True Ecological Change at the Cretaceous-Paleogene Mass Extinction*, American Geophysical Union Fall Meeting, San Francisco, CA, December 9-14, 2019

Trower, E., Mahseredjian, T., Overeem, I., Gomes, M., Howard, C., Lingappa, U., Present, T., **Sibert, E.** (2019) *Grain-Trapping by Microbial Mats—A Key Mechanism of Sediment Accumulation in Mangroves?* American Geophysical Union Fall Meeting, San Francisco, CA, December 9-14, 2019

Hsiang, A. Y, Field, D. J., Nelson, K., Elder, L. E., **Sibert, E. C.**, Hull, P. M. High-throughput 2D and 3D morphological data acquisition using AutoMorph: vertebrate and invertebrate case studies. Society for Vertebrate Paleontology Annual Meeting, Albuquerque, NM, Oct 17-20, 2018 (Oral Presentation).

Rubin, L.*., and **Sibert, E. C.**, *Evidence for a Selective Shark Extinction 20 Ma using Morphometric Analysis of Dermal Denticles*. Joint Meeting of Ichthyologists and Herpetologists, Rochester, NY, July 8-15, 2018 (poster).

Present, T. M., Trower, L., Stein, N., Alleon, J., Bahniuk, A., Gomes, M. L., Lingappa, U., Metcalfe, K., Orzechowski, E. A., Riedman, L. A., Sanders, C. B., Morris, D. K., O'Reilly, S., **Sibert, E. C.**, Thorpe, M., Tarika, M., Fischer, W. W., Knoll, A. H. and Grotzinger, J. P. *Context, Biogeochemistry, and Morphology of Diverse and Spatially Extensive Microbial Mats, Little Ambergris Cay, Turks and Caicos Islands, B.W.I.* AGU Fall Meeting, New Orleans, LA, Dec 11-15, 2017 (Poster).

Foreman, B.*, Gao, T.*, Lyakov, J.*, and **Sibert, E.C.** (2016) *Methods for isolation and quantification of ichthyoliths from marine sediments*. Southern California Geobiology Symposium, Caltech, Pasadena, CA (Poster)

Zill, M. E.+ , **Sibert, E. C.**, and Norris, R. D. (2015) *Decreased temperate but not polar fish productivity across the Eocene-Oligocene Transition: insights from ichthyoliths*. American Geophysical Union Fall Meeting, San Francisco, CA, Dec. 14-18, 2015 (Poster)

- Cuevas, J. M.*, **Sibert, E. C.**, and Norris, R. D. (2015) *Fish productivity in open-ocean gyre systems in the Late Oligocene and Miocene*. American Geophysical Union Fall Meeting, San Francisco, CA, Dec. 14-18, 2015 (Poster)
- Zill, M. E.*, **Sibert, E. C.**, and Norris, R. D. (2015) *Using Ichthyoliths to Understand Fish Production During the Eocene-Oligocene Transition*. Southern California Geobiology Symposium, Riverside, CA. April 11, 2015 (poster)
- Bryant, R. M.*, **Sibert, E. C.**, and Norris, R. D. (2014) *An Early Cenozoic Ichthyolith Record from Demerara Rise (ODP Site 1258: Equatorial Atlantic Ocean)*. American Geophysical Union Fall Meeting, San Francisco, CA. Dec 15-19, 2014 (Poster Presentation)
- Graves, L. G.*, **Sibert, E. C.**, and Norris, R. D. (2014) *An Eocene-Oligocene Record of Ichthyoliths from the North Pacific*. North American Paleontological Convention, Gainesville, Florida, February 15-18, 2014. (Oral Presentation)
- Herrera, S.; Munro, C.; Nganro, N.; Tunncliffe, V.; Wirasantosa, S.; **Sibert, E.**; Hammond, S. R.; Bors, E.; Butterfield, D.; Holden, J. F.; Baker, E. T.; Sherrin, J.; Makarim, S.; Troa, R.; Shank, T. M. (2010). *Biodiversity of the Deep-Sea Benthic Fauna in the Sangihe-Talaud Region, Indonesia: Observations from the INDEX-SATAL 2010 Expedition*. Conference Abstract for American Geophysical Union Fall 2010 Meeting, San Francisco, CA. Dec 13-17, 2010.
- Shank, T. M.; Herrera, S.; Bors, E.; Munro, C.; **Sibert, E.**; Nganro, N.; Makarim, S.; Wirasantosa, S.; Tunncliffe, V.; Baker, E. T.; Butterfield, D. A.; Holden, J. F.; Hammond, S. R. (2010). *Hydrothermal Vents and Organic Falls in the Heart of the Coral Triangle: Chemosynthetic Communities Discovered via Telepresence in the Sangihe-Talaud Region, Northern Sulawesi, Indonesia*. Conference Abstract for American Geophysical Union Fall 2010 Meeting, San Francisco, CA. Dec 13-17, 2010.

OUTREACH, SERVICE, AND OTHER SKILLS

Journal Reviewer: Geology, GSA Today, Nature Communications, Nature Ecology and Evolution, Paleobiology, Paleoceanography, PLoS ONE, PLOS Biology, Science Advances

Professional Memberships: American Geophysical Union (2012-present); Geological Society of America (2012-present); The Oceanography Society (2015-present); The International Association for Geoscience Diversity (IAGD; 2016-present); The Paleontology Society (2018-present)

Service

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| 2020 | Founder, Co-Organizer, Pal(a)eo PERCS: Virtual international seminar series featuring Early Career Researchers in Paleo-sciences |
| 2020 | Conservation Paleobiology Research Coordination Network Diversity, Equity and Inclusion (DEI) Committee |
| 2020 | Reviewer YIBS Small Grants Program, Yale University |
| 2016-2018 | Organizer, Harvard University Geobiology and Earth History Seminar Series |
| 2014-2016 | Scripps Oceanographic Collections Committee, graduate student representative |
| 2014 | Convener for AGU Fall Meeting 2014 session “A Living Planet: Biotic Responses to Earth’s Changing Climate” |
| 2014 | Founding member and organizer of the Scripps Student Symposium Conference |

Outreach

- 2019 Various outreach and presentations at Boston’s Museum of Science
- 2018-2019 Skype a Scientist participant for multiple classrooms across the US
- 2017 Ask a Paleontologist volunteer, I <3 Science Festival, Harvard Museum of Natural History
- 2017 National Ocean Sciences Bowl (NOSB) question reviewer
- 2017-2019 NOSB Blue Lobster Bowl Science Judge & Moderator
- 2011-2016 Short (<3 hour) outreach presentations for local groups in San Diego area and visitors to Scripps.
- 2014-2016 BEWiSE San Diego (middle school girls in science) presenter
- 2012-2014 NOSB Moderator and Science Judge, La Jolla, CA
- 2013 Expand Your Horizons Conference for young women (grades 6-9), Workshop Presenter
- 2003-2008 Volunteer in Visitor Education, New England Aquarium in Boston, MA
- 2008 Girl Scout Gold Award for science outreach programs for middle school girls

Language skills

Proficient in French (read, spoken, and written)

Other skills

2001-present Skilled circus coach, performer, show coordinator, and aerial acrobat, 2001 – present. Instructor and performer at Esh Circus Arts (2017-present); Gravity Alternative Movement (2018-2020), Aircraft Aerial Arts (2017-2018); Aerial Revolution (2009-2016); silks program director and lead instructor, UCSD (2012-2016). Have also helped to run summer camps and volunteer circus outreach programs (2007-2011)