

Elizabeth Sibert

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EDUCATION

PhD	Oceanography Scripps Institution of Oceanography, UC San Diego, La Jolla, CA	2016
MS	Oceanography Scripps Institution of Oceanography, UC San Diego, La Jolla, CA	2013
BS	Biology and Marine Sciences, <i>summa cum laude</i> University of California, San Diego, La Jolla, CA	2008-2011

ACADEMIC POSITIONS

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

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

- Sibert, E. C.**, and Rubin, L D.*. (2021) *An early Miocene extinction in pelagic sharks*. Science 372(6546): 1105-1107. <https://doi.org/10.1126/science.aaz3549>
- Whitenack, L. B., Kim, S. L., and **Sibert, E. C.** *Bridging the Gap Between Chondrichthyan Paleobiology and Biology* in The Biology of Sharks and Their Relatives (3rd ed), edited by Carrier, J. et al. (Accepted for publication in 2022)
- Britten, G. L.,[^] and **Sibert, E. C.**[^] (2020) *Enhanced fish production during a period of extreme global warmth*. Nature Communications 11, 5636. <https://doi.org/10.1038/s41467-020-19462-w> ([^]co-first authorship)

11. **Sibert, E.C.**, Zill, M.E⁺, Frigyik, E.T.* and Norris, R. D. (2020) *No state change in pelagic fish production and biodiversity during the Eocene–Oligocene transition*. Nature Geoscience. <https://doi.org/10.1038/s41561-020-0540-2>
10. 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. (2020) *The habitat of the nascent Chicxulub crater*, AGU Advances, <http://dx.doi.org/10.1029/2020AV000208>
9. 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>
** Winner of the 2021 Journal of Geoscience Education Outstanding Paper Award**
8. Hull, P. M., Bornemann, A., Penman, D. E., Henehan, 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., Lorocho, 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>
7. **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>
6. 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>
5. **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>
4. **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>
3. **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>
2. **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>

1. 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>

Non-peer reviewed articles

3. 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>.
2. **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>
1. **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)

In revision

- Armbrecht, L., Eisenhofer, R., Utge, J., **Sibert, E. C.**, Rocha, F., Ward, R., Pierella Karlusich, J. J., Tirichine, L., Norris, R., Summers, M., Bowler, C. *Paleo-diatom composition from Santa Barbara Basin deep-sea sediments: A comparison of 18S-V9 and diat-rbcL metabarcoding vs shotgun metagenomics*. (in revision, IMSE Communications)
- Sibert, E. C.**, and Rubin, L. D. *Response to Comment on “An Early Miocene Extinction in Pelagic Sharks” 1 of 2* (in revision, Science)
- Sibert, E. C.**, and Rubin, L. D. *Response to Comment on “An Early Miocene Extinction in Pelagic Sharks” 2 of 2* (in revision, Science)

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

Federal Funding/Sponsored Projects as PI

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| 2021 | NSF IntBIO “ <i>Collaborative Research: Deep Time, Development, and Design: Evolution of shark skin teeth from genotype to phenotype to prototype</i> ”.
\$474,066 (3-year standard award to Yale University) |
| 2020 | Post-Expedition Award, US Science Support Program: <i>Marine consumers and Paleogene environmental change at Campbell Plateau, IODP Expedition 378</i> .
\$18,000 |
| 2020 | International Ocean Discovery Program (IODP) Expedition Participant Award:
~\$48,000, exact amount to be determined in Jan 2020 |

Fellowships and Small Grants

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| 2020 | Yale Teaching Innovation Project Grant (\$1000) |
| 2020 | Yale Institute for Biospheric Sciences Hutchinson Fellowship |
| 2019 | Visiting Researcher Grant – ICTA, Autonomous University of Barcelona, Spain |
| 2018 | Project COD-REMAP (collaborator), SPG grant from NSERC-Canada, total grant:
\$685,371 to Dalhousie University (Canadian) |
| 2017 | Harvard University Milton Fund (\$50,000) |
| 2016 | Harvard Society of Fellows Postdoctoral fellowship |
| 2016 | NSF Postdoctoral Research Fellowship in Biology (<i>declined</i>) |

- 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 Fellowship

Awards and Travel/Workshop grants

- 2021 Journal of Geoscience Education Outstanding Paper Award
- 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 Paleoclimatology
- 2012 Poster Award, Cioppino Conference at Urbino Summer School in Paleoclimatology
- 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 Agouon 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 Paleoceanography field work in central Italy
- 2010 Research assistant, *CalEchoes Cruise* (9 days), sediment, fish, and plankton sampling

TEACHING AND MENTORING

Teaching

- 2021 Co-instructor, developer, *The Changing Oceans*, Wesleyan University (Visiting
Assistant Professor)
- 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 <i>Introduction to Paleontology</i> course
2011	Co-instructor of record, Academic Connections <i>Evolution of a Planet</i> course
2011	Teaching Assistant: <i>BILD 3: Ecology and Evolution</i> (introductory level)
2010	Teaching Assistant: <i>Introduction to Biological Oceanography</i> (upper division)
2009-2011	Reader, UCSD Mathematics Department for <i>Math 20C: Multivariable Calculus for Scientists and Engineers</i>

Mentoring – Primary Advisor

(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)

2021	Evie Sackett	Yale Undergraduate
	<i>Oligocene Fish Tooth Abundance and Diversity from Exp 378</i>	
2021	Izzi Henig	Yale Undergraduate
	<i>Eocene Fish Tooth Abundance and Diversity from Exp 378</i>	
2017-2021	Leah Rubin	COA Undergraduate Intern
	<i>Shark denticle morphometrics and 20 Ma extinction</i>	
2018-2019	Ella Frigyik	Harvard Undergraduate Student
	<i>Eocene-Oligocene Fish diversification</i>	
2018-2019	Jenn Greiner	Harvard Undergraduate Student
	<i>Scotia Shelf Fish communities</i>	
2018	Jacob Licht	Harvard Undergraduate Student
	<i>Anglerfish tooth morphology and its applications to the fossil record</i>	
2018	Greta Wong	Harvard Undergraduate Student
	<i>Record of marine productivity and fish abundance in the middle Miocene</i>	
2017-2019	Monica Marion	Recent Harvard Graduate
	<i>Survey of Modern Fish Tooth Morphology</i>	
2017-2018	Raashid Chowdhury	Northeastern Undergraduate Student
	<i>Fish skull database and tooth functional morphology</i>	
2017	Matthew Moody	Harvard Undergraduate Student
	<i>OAE1a Phosphate/Oxygen Isotopes</i>	
2015-2016	Kimberly McComas	SIO Masters Student
	<i>Sapropel fish productivity</i>	
2016	Betty Foreman	UCSD Undergrad Independent Study
	<i>Fish at Oceanic Anoxic Event 2</i>	
2016	Jacques Lyakov	UCSD Undergrad Independent Study
	<i>Fish Tooth Taphonomy</i>	
2016	Teng Gao	UCSD Undergrad Volunteer
	<i>Fish tooth methods protocols</i>	
2014-2016	Michelle Zill	SIO Masters Student
	Began as UCSD undergrad independent study, masters from 4/2015	
	<i>Eocene-Oligocene Fish production and diversity</i>	
2014-2016	Jose Cuevas	USD Undergrad Intern
	University of San Diego undergraduate student	
	<i>Fish productivity in ocean gyre systems in the Oligocene and Miocene</i>	

2012-2015	Douglas Tomczik <i>Fish Production and Diversity across the Paleocene-Eocene Thermal Maximum</i>	SIO Masters Student
2014-2015	Raquel Bryant Brown University undergraduate, senior thesis advised through 2015 <i>Paleocene-Eocene Ichthyoliths from Demerera Rise Site 1258</i>	SURF SIO Summer Student 2014
2014	Eric Schwab <i>Miocene Ichthyoliths</i>	UCSD Undergrad Volunteer
2013-2014	Lana Graves <i>An Eocene-Oligocene Record of Ichthyoliths from the North Pacific</i>	UCSD Undergrad Independent Study
2013	Matthew Howard <i>OAE 2 Ichthyoliths</i>	UCSD Undergrad Independent Study
2013	Tiffany Horiguchi <i>Modern Shark Denticle Morphology</i>	UCSD Undergrad Volunteer
2013	Monika Krach <i>Sapropel Fish Teeth</i>	Volunteer, Scripps MAS Student
2012	Matthias Scheer <i>Modern Clupeiform Ichthyolith Taxonomy</i>	UCSD Undergrad Independent Study
2012	Christopher Ladwig <i>Modern Mesopelagic Ichthyoliths</i>	UCSD Undergrad Volunteer

Mentoring – External Co-advisor

2019-present	Sven Pallacks Autonomous University of Barcelona, Spain	PhD Student
2020-present	Hannah Bird University of Birmingham, UK	PhD Student
2020-present	Matthew Sutton Oxford University, UK	PhD Student
2021-present	Wendy Muraoka Dalhousie University, Canada	PhD Student

PRESENTATIONS

Invited Departmental Seminars

2021	Queen’s University, Canada, Department of Geological Sciences Seminar
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.** *Capturing functional ecology from ichthyoliths: what isolated microfossil fish teeth and dermal scales can reveal about ancient vertebrate ecology*, Closing the Paleontological-Ecological Gap, virtual, Sept 6-9, 2021 (Lightning Talk)
- Sibert, E. C.** and Rubin, L. D.* (2021) *An Early Miocene extinction in pelagic sharks*, Northeast Geobiology Symposium, virtual, April 10, 2021 (Poster Presentation)
- 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 Paleoceanography, 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.; Tunnicliffe, 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.; Tunnicliffe, 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 (2016-present); The Paleontology Society (2018-present)

Service

2021 Contributor to update of 500 Women Sciences *Guide to Planning Inclusive Scientific Meetings*

- 2020-present Founder, Co-Organizer, Pal(a)eo PERCS: Virtual international seminar series featuring Early Career Researchers in Paleo-sciences
- 2020-present Conservation Paleobiology Research Coordination Network Diversity, Equity and Inclusion (DEI) Committee
- 2020 Reviewer YIBS Small Grants Program, Yale University
- 2020 Panelist, Society for Vertebrate Paleontology Meeting Panel on Neurodiversity and Disability (October 15 2020)
- 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), Basic American Sign Language (ASL)

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)