

Pincelli M. Hull

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PROFESSIONAL APPOINTMENTS

Assistant Professor, Yale University, Department of Geology & Geophysics since July 2013
Assistant Curator, Invertebrate Paleontology, Yale Peabody Museum since April 2015

EDUCATION

Yale University, Department of Geology & Geophysics April 2010 – June 2013
▪ Post Doctoral Associate [mentor: Derek E. G. Briggs]

Universität Konstanz, Department of Biology Oct 2010 – Aug 2011
▪ Visiting Postdoctoral Researcher [mentor: Axel Meyer]

Scripps Institution of Oceanography, UCSD June 2004 – April 2010
▪ Advisors: Richard D. Norris and Mark D. Ohman
▪ Committee: Peter J.S. Franks, Jeremy B.C. Jackson, Lawrence Saul, George Sugihara
▪ Curriculum: Biological Oceanography and Center for Marine Biodiversity and Conservation
[IGERT Associate, Interdisciplinary Graduate Education Research and Training, NSF]

Duke University Sept 1999 – June 2003
▪ B.S. Biology, B.S. Earth and Ocean Sciences, German Minor

Sea Education Association Spring 1999
▪ College semester at sea: oceanography, nautical science, maritime history [C-163]

RESEARCH INTERESTS

Evolution of Oceans and Life [Paleontology, Paleoceanography, and Global Change]

- Ecological and evolutionary response of marine ecosystems to past global change
 - Paleoceanographic and planktonic foraminiferal evolution in the Cenozoic
 - Tempo, mode, and the perception of macroevolution in fossils
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PROFESSIONAL RECOGNITION

Research Appointments

- Research Collaborator, National Museum of Natural History, Smithsonian Institution 2011-2014
- Shipboard scientist, Integrated Ocean Drilling Program Expedition 342 June – Aug 2012

Research Consortia

- Member of the El Kef Coring Program since 2013
[An international program to explore the mass extinction at the Cretaceous-Paleogene Boundary in the classic El Kef Section in Tunisia: <http://www.ktboundary.org>]
- Co-Lead of the Eocene Stable Isotope Consortium [with P. Sexton] since Aug 2012
[Aim: to generate a resolved, astronomically tuned benthic stable isotope record for the Eocene. Consortium includes 12-laboratory groups in five-countries]

Awards

- Poster Award: International Biogeography Society Meeting 2007
 - UC-MEXUS Grant Award: Mildred Mathias Award for best natural sciences proposal 2005
 - Biology Award, Duke University: Maggie Schneider Award in Marine Biology 2003
[awarded to top graduating student with a Marine Biology concentration in Biology]
 - Earth and Ocean Sciences Award, Duke University: Thomas V. Laska Memorial Award 2003
[awarded to top graduating student with an Earth and Ocean Sciences major]
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FELLOWSHIPS AND GRANTS

Fellowships

- Stanford Blaustein Fellowship for Visiting Faculty Spring 2016
- DAAD 6-Month Research Grant 2010
- NSF Pre-doctoral Fellowship 2005 – 2008
- Chancellor's Fellowship, University of California San Diego 2004 – 2008
- Regents Fellowship, University of California San Diego 2004 – 2005
- NSF REU: Woods Hole Oceanographic Institution 2003
- NSF REU: Marine Biological Laboratory, Woods Hole 2000

Grants

- BIOS Mini Grant: *Constraining the physiological influences on boron isotope ratios in foraminifera* [M. Henehan and P. Hull] 2016
- ACS PRF Grant: *Using shape to track open ocean community structure since the late Cretaceous* [\$110,000] 2015
- NSF: *Collaborative Research: Evaluating deep-sea ventilation and the global carbon cycle during early Paleogene hyperthermals* [A. Winguth, C. Winguth, E. Griffith, E. Thomas, P.M. Hull] 2015
- Paleontological Society Outreach and Educational Grant [E. Thomas, P.M. Hull, A. Motto; \$2500] 2014
- Yale Endowed Postdoctoral Fellowship (to support A. Hsaing) 2014 – 2016
- NSF EOR: *Collaborative Research: Eocene Orbital-scale Oceanographic Variability in the North Atlantic: Inferences from Expedition 342 Cores* [In collaboration with R. D. Norris and J. C. Zachos; \$414,000 total] 2013 – 2015
- Integrated Ocean Drilling Program Expedition 342, Post Cruise Activities [\$14,998] 2012
- UNOLS Early Career Investigator Training Cruise Participant [9-days cruise time + \$1000 budget] 2011
- International Conference of Paleoceanography [ICP] travel grant for ICP Meeting [\$500] 2010
- International Biogeography Society [IBS] travel grant for IBS Meeting [\$1,330] 2009
- PAGES funding for International Biogeography Society Meeting [\$1,805] 2007
- UC-MEXUS Grant: *An ecological and economic baseline for the Revillagigedo Archipelago, Biosphere Reserve, Mexico* [\$17,500] 2005
[Proposal and Project Leaders: P. M. Hull, O. Aburto-Oropeza, J. Murray; PI: E. Sala]
- Supplementary Grants for Revillagigedo Project: Pacific Rim Mini-Grant, Earth Friends, NSF/IGERT, Scripps Institution of Oceanography Internal Grant [\$12,500 total] 2005

Proposals in Review

- Collaborative research: The role of pCO₂ in the astronomically-paced climate cycles of the Miocene [Proposal lead: D. Penman, PIs: P.M. Hull, A. Ridgwell, S. Kirtland Turner, H. Scher]
- Proponent on IODP Pre-Proposal: *Newfoundland Neogene sediment drifts: transition from the Paleogene greenhouse to the modern icehouse* [Proposal Leaders: O. Friedrich, R. Norris, P. Wilson, B. Opdyke with 24-additional coauthors including P.M. Hull]

TEACHING AND MENTORING

Teaching

- G&G 625 Hutchinson, Ecology and the Earth System: co-taught with David Skelly and Noah Planavsky 2016
- GS 224A Paleocology of the Open Sea, Stanford University 2016
- G&G 625 Biotic feedbacks on marine productivity & nutrient cycling: co-taught with Noah Planavsky 2014
- G&G 800 Boundaries of the Paleocene: graduate seminar and collections based research 2014

- G&G 126 History of Life: co-taught with D. E. G. Briggs in 2014 2014 – 2015
- EVST 496 Senior Research Project: team taught with J. Park, A. Doolittle, and G. Brewer 2013
- G&G 800 Paleo Problem Solving with R: graduate seminar 2012
- Guest Lecturer, Yale: I contributed guest lectures on zooplankton, planktonic foraminiferal functional morphology, and deep sea carbonate preservation 2011 – 2012
- Teaching Assistant, UCSD: Paleocology, an upper division/graduate level course 2007
[Primary responsibilities: designing laboratory exercises and exams (4 hrs/week) to accompany the lecture and field trip based course taught by R. Norris and J. Jackson]
- Guest Lecturer, UCSD: I contributed guest lectures and laboratories in four graduate courses at UCSD and to the general public on pelagic evolution and biogeography, marine micropaleontology, and zooplankton diversity 2006 – 2010

Postdoctoral Mentoring

- Current: Simon D'haenens (Fall 2014 – present); Michael Henehan (Spring 2014 –present); Donald Penman (Spring 2015 – present); Leanne Elder (Winter 2016 – present); Allison Hsiang (Fall 2014 – present)
- Past: David Evans (Fall 2015 – Summer 2016; primary mentor: Hagit Affek); Luke Strotz (Winter 2016 – Summer 2016)

Graduate Students & Graduate Student Committees

- Doctoral Students: Janet Burke (2014 – present); Shaung Zhang (Fall 2015 – present); Sophie Westacott (Fall 2016 – present); Daniel Gaskill (Fall 2016 – present)
- Doctoral Student Committee Member (current) : Elizabeth Clark (2013 – present); Jessica Glass (2015 – present); Holger Petermann (2013 – present); James Super (2014 – present); Christopher Whalen (2014 – present)
- Doctoral Student Committee Member (past): Allison Hsiang (defended Fall 2014); Victoria McCoy (defended Spring 2015); Rachel Racicot (defended Spring 2014)

Undergraduate Mentoring

- [Summer Internship] Romy Carpenter, Yale: *Long Island Physiology* since 2016
- [Summer Internship] Jack Shaw, Lafayette College: *'Bleaching' in hyperthermals* since 2016
- [Peabody Evolutions Program] Georgienna Driver, Southern Connecticut State Univ. 2016
- [Independent Research & Senior Thesis] Tess Maggio, Yale: *Geochemical foraminiferal ecology* 2015 – 2016
- [Independent Research & Senior Thesis] Rain Tsong, Yale: *Dynamics of biogenic silica in the Eocene; Lithium isotopic proxy development* 2015 – 2016
- [Independent Study & Senior Thesis] Christopher Bowman, Yale: *Eocene pelagic biotic sensitivity* 2015 – 2016
- [Independent Research & Senior Thesis] Paige Breen, Yale: *Eocene planktonic foraminiferal ecology and paleoceanography* 2014 – 2016
- [Independent Study & Senior Thesis] Sara Kahanomoku-Snelling, Yale: *Foraminiferal morphology; Limpet macroecology* 2014 – 2016
- [Independent Study] Madison Shankle, Yale: *Foraminiferal shell density* since 2013
- [Peabody Evolutions Program] Jennifer Messervy, Three Rivers Community College 2015
- [Independent Research] Megan Mikenas, Yale: *K-Pg Foraminifera Dynamics* 2014 – 2015
- [Independent Study] Yusu Liu, Yale student: *Automated analysis of foraminiferal size and shape from microscope images* 2014
- [Independent Summer Research] Samantha Lichtin, Yale student: *Calibrating automated microfossil size analysis* 2013
- [Sophomore Mentor]: Samantha Lichtin & Maya Midzik 2013 – 2014
- [Summer Research Project] Juan Aragon, Yale student: *EO Isotopes* 2013

- [Peabody Evolutions Program] Matt Ormrod, Southern CT State University: *Eocene Paleooceanography* 2013 – 2014
- [Senior Thesis] Liana Epstein, Yale student: *K-Pg preservation* 2013 – 2014
- [Class Project & Research] Jennifer Kasbohm, Yale student [current doctoral student, Princeton University]: *K-Pg preservation* 2012 – 2013
- [Independent Study] Elizabeth Sibert, UCSD undergraduate [current doctoral student, Scripps Institution of Oceanography]: *K-Pg fish teeth* 2009 – 2010
- [Independent Study] Peter Bloxson, visiting UCSD undergraduate [current doctoral student, University of Cardiff]: *K-Pg stable isotopes* 2007 – 2008

High School Student Mentoring

- [Peabody Evolutions Program] Gabriela Villanueva & Aaliyah Shabazz 2016
- [Independent Study; primary mentor: L. Elder]: Casey Culligan, Amity High School 2015 – 2016
- [Peabody Evolutions Program] Ahmad Keita, Janae McMillan, Juhith Nath, Diego Ospina 2015
- [Peabody Evolutions Program] Zariah Altman, Sywia Zambrycka 2014
- [Peabody Evolutions Program] Jenna LaFontaine, Kurt LoPresto, Amanda Plaza 2013

JOURNAL REFEREE ACTIVITY

- Biology Letters; Current Biology; Climate of the Past; Earth Science Review; Earth and Planetary Science Letters; Earth Science Review; Geology; Global Ecology and Biogeography; Journal of Systematic Palaeontology; Journal of Micropaleontology; Nature Geoscience; Palaeogeography, Palaeoclimatology, Palaeoecology; Paleobiology; Paleooceanography; PLOS One; Philosophical Transactions B; Proceedings of the National Academy of Sciences USA; Science; Scientific Advances; The Sedimentary Record

UNIVERSITY AND DEPARTMENT SERVICE

Yale University

- Science Council, Yale University 2016 – 2017
- Flint Visitors Committee, Dept. of G&G 2016 – 2017
- Advisory Committee on Library Policy, Yale University 2015
- Curriculum Committee, Dept. of G&G 2014 – 2015
- Department Diversity Recruitment Coordinator, Dept. of G&G 2014 – 2015
- Graduate Admissions and Recruiting, Dept. of G&G 2014 – 2015
- Program Review and Exam Committee, Dept. of G&G 2014

University of California San Diego

- Chair, Teaching Award Committee, Scripps Institution of Oceanography* 2006 – 2007
 - Chaired committee to recognize excellence in graduate and undergraduate instruction by professors at the Scripps Institution of Oceanography
- Student Representative, Scripps Institution of Oceanography* 2005 – 2007
 - Student representative for Biological Oceanography
 - Student representative for the Center for Marine Biodiversity and Conservation

SERVICE TO SOCIETIES AND AGENCIES

Climatic and Biotic events of the Paleocene (CBEP)

- Scientific Committee for CBEP 2017 to be held in Snowbird, Utah (Sept 17th-22nd)

Ad-Hoc Proposal Reviewer

- Austrian Science Fund (FWF; Austria); National Science Foundation (USA); Petroleum Research Fund (American Chemical Society)

Integrated Ocean Drilling Program [IODP]

- Workshop participant for ‘North Atlantic drilling for climate dynamics’, a proposal planning meeting for targeted Oligocene and Miocene drilling in the N. Atlantic Oct 2014
- Editor for the Proceedings of IODP Exp 342 2013

Student Grants Reviewer, Paleontology Society

since 2013

- Reviewer for student grant proposals

Graduate Student Development, International Biogeography Society

- Reviewer for student travel grant proposals 2012
- Organized peer-review of student travel applications; awarded > 60 grants 2009
- Committee member, help organize IBS student development activities 2007 – 2009

SOCIETY MEMBERSHIP

- American Association for the Advancement of Science [2009-2016], American Geophysical Union [2007 – 2014], American Society of Limnology and Oceanography [2010], Cushman Foundation for Foraminiferal Research [2015 – 2016], International Biogeography Society [2006 – 2016, with breaks], The Society for the Study of Evolution [2007 – 2010], The Geological Society of America [2008 – 2016], The Palaeontological Association [2010-2013], Paleontology Society [2014 – 2016]

PUBLICATIONS

Submitted and In Review

- Edgar K.M., **Hull P.M.**, Ezard T.H.G. (*submitted*) Systematic offsets in the stable carbon isotopic composition of foraminifera due to shared evolutionary history. Submitted to *Nature Geoscience*.
- Kirtland Turner S., **Hull P.M.**, Kump L.R., Ridgwell, A. (*in review*) A probabilistic assessment of the rapidity of PETM onset. In review at *Nature Communications*.
- Zhang S., Henehan M.J., **Hull P.M.**, Reid, R.P., Hardisty D.S., Planavsky N.J. (*in review*) On the reliability of ocean pH estimates derived from boron isotopes in shallow marine inorganic carbonates. In review at *Earth and Planetary Science Letters*.
- Friedrich O., Batenburg S.J., Moriya K., Voigt S., Cournède C., Moebius I., Blum P., Bornemann A., Fiebig J., Hasegawa T., **Hull P.M.**, Norris R.D., Röhl U., Westerhold T., Wilson P.A., and the IODP Expedition 342 Scientists (*in review*). Maastrichtian carbon isotope stratigraphy and cyclostratigraphy of the Newfoundland Margin (Site U1403, IODP Leg 342). *Climate of the Past Discussions*

Published and In-Press

- **Hull P.M.**, Bohaty S.M., Cameron A., Coxall H.K., D’haenens S., de Vleeschouwer D., Elder L.E., Friedrich O., Kerr K., Kirtland Turner S., Kordesch W.E.C., Moriya K., Norris R.D., Opdyke B.N., Penman D.E., Pälike H., Wilson P.A., Sexton P.F., Vahlenkamp M., Wu F., Zachos J.C. (*accepted*). Data Report: weight percent coarse fraction record for the Eocene megasplite at IODP Sites U1406, U1408, U1409, U1411. *Proc. of IODP Exp 342*.
- Wang X., Planavsky N.J., **Hull P.M.**, Tripathi A.E., Zou H.J., Elder L., Henehan M.J. 2016. Evaluating foraminifera as an archive for seawater Chromium isotopic composition. *Geobiology*: 1-16. doi: 10.1111/gbi.12198
- Burke J. E. and **Hull P.M.** (*in press*). Effect of gross morphology on modern planktonic foraminiferal test strength under compression. *Journal of Micropalaeontology*.
- Henehan, M.J., **Hull P.M.**, Penman D.E., Rae J.W.B., Schmidt D.N. 2016. Biogeochemical significance of pelagic ecosystem function: an end-Cretaceous case study. *Philosophical Transactions of the Royal Society B* 371: 20150510. <http://dx.doi.org/10.1098/rstb.2015.0510>
- Hsiang A., Elder L., **Hull P.M.** 2016. Morphology as a common metric of population dynamics in the fossil record: a test case of planktonic foraminifera. *Philosophical Transactions of the Royal Society B* 371: 20150227. <http://dx.doi.org/10.1098/rstb.2015.0227>

- Darroch S.A.F., Locatelli E.R., McCoy V. E., Clark E. G., Anderson R. P., Tarhan L. G., **Hull P. M.** 2016. Taphonomic disparity in foraminifera as a paleo-indicator for seagrass. *Palaios* 31: 242-258. doi: [10.2110/palo.2015.046](https://doi.org/10.2110/palo.2015.046)
- **Hull P.M.**, Darroch S.A.F., Erwin D.H. 2015. Rarity in mass extinctions and the future of ecosystems. *Nature* 528: 345-351. doi:[10.1038/nature16160](https://doi.org/10.1038/nature16160)
- **Hull P.M.** 2015. Billions and billions of bad tomorrows. *Current Biology*. doi: <http://dx.doi.org/10.1016/j.cub.2015.10.032> [Book Review]
- **Hull P.M.** 2015. Life in the aftermath of mass extinctions. *Current Biology* 25: R941–R952 doi: <http://dx.doi.org/10.1016/j.cub.2015.08.053>
- Ezard T.H.G., Edgar K.M., **Hull P.M.** 2015. Environmental and biological controls on size-specific $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ in recent planktonic foraminifera. *Paleoceanography*. doi: [10.1002/2014PA002735](https://doi.org/10.1002/2014PA002735)
- Sibert E.C., **Hull, P.M.**, Norris R.D. 2014. Resilience of Pacific pelagic fish across the Cretaceous/Palaeogene mass extinction. *Nature Geoscience* 7: 667-670. doi:[10.1038/ngeo2227](https://doi.org/10.1038/ngeo2227)
- **Hull P.M.** and Darroch S.A.F. 2013. Mass extinctions and the structure and function of ecosystems. In *Ecosystems Paleobiology and Geobiology*. [eds] A.M. Bush, S.B. Pruss, J.L. Payne. The Paleontological Society Short Course. *The Paleontological Society Papers*, v. 19.
- Norris R.D., Kirtland Turner S., **Hull P.M.**, Ridgwell, A. 2013. Marine ecosystem responses to Cenozoic global change. *Science* 341 (6145): 492-498. doi: [10.1126/science.1240543](https://doi.org/10.1126/science.1240543)
- Manousaki T. *, **Hull P.M.** *, Kusche H., Machado-Schiaffino G., Franchini P., Harrod C., Elmer KR, Meyer A. 2013. Parsing parallel evolution: ecological divergence and differential gene expression in the adaptive radiations of thick-lipped Midas cichlid fishes from Nicaragua. *Molecular Ecology* 22 (3): 650-669. doi: [10.1111/mec.12034](https://doi.org/10.1111/mec.12034)
[* indicates co-first authorship]
- Norris R.D. and **Hull P.M.** 2012. The temporal dimension of marine speciation. *Evolutionary Ecology* 26 (2): 393-415. doi: [10.1007/s10682-011-9488-4](https://doi.org/10.1007/s10682-011-9488-4)
- Ohman M.D., Rau G.H., **Hull P.M.** 2012. Multi-decadal variations in stable N isotopes of California Current zooplankton. *Deep-Sea Research I* 60: 46-55. doi:[10.1016/j.dsr.2011.11.003](https://doi.org/10.1016/j.dsr.2011.11.003)
- **Hull P.M.**, Norris R.D., Bralower T., Schueth, J.D. 2011. A role for chance in marine recovery from the end-Cretaceous extinction. *Nature Geoscience* 4: 856-860. doi:[10.1038/ngeo1302](https://doi.org/10.1038/ngeo1302)
- **Hull P.M.** and Norris R.D. 2011. Diverse patterns of ocean export productivity change across the Cretaceous-Paleogene boundary: new insights from biogenic barium. *Paleoceanography* 26 (PA3205). doi:[10.1029/2010PA002082](https://doi.org/10.1029/2010PA002082)
- **Hull P.M.**, Osborn K.J., Norris R.D., Robison B.H. 2011. Seasonality and depth distribution of a mesopelagic planktonic foraminifer, *Hastigerinella digitata*, in Monterey Bay, California. *Limnology and Oceanography* 56 (2): 562-576. doi:[10.4319/lo.2011.56.2.0562](https://doi.org/10.4319/lo.2011.56.2.0562)
- **Hull P.M.**, Franks P.J.S., Norris R.D. 2011. Mechanisms and models of iridium anomaly shape across the Cretaceous-Paleogene boundary. *Earth and Planetary Science Letters* 301: 98-106. doi: [10.1016/j.epsl.2010.10.031](https://doi.org/10.1016/j.epsl.2010.10.031)
- **Hull P.M.** and Norris R.D. 2009. Evidence for abrupt speciation in a classic case of gradual evolution. *Proceedings of the National Academy of Sciences USA* 106 (50): 21224-21229. doi:[10.1073/pnas.0902887106](https://doi.org/10.1073/pnas.0902887106)
- Lewis J.M., **Hull P.M.**, Weinberger K., Saul L. 2008. Mapping Uncharted Waters: Exploratory Analysis, Visualization and Clustering of Oceanographic Data. *Proceedings of the 7th International Conference on Machine Learning and Applications (ICMLA-08)*, pages 388-395. San Diego, California. doi:[10.1109/ICMLA.2008.125](https://doi.org/10.1109/ICMLA.2008.125)
- Aburto-Oropeza O. and **Hull P.M.** 2008. A probable spawning aggregation of leather bass, *Dermatolepis dermatolepis*, in the Revillagigedo Archipelago, Mexico. *Journal of Fish Biology* 73 (1): 288-295. doi:[10.1111/j.1095-8649.2008.01909.x](https://doi.org/10.1111/j.1095-8649.2008.01909.x)

Reports

- Expedition 342 Scientists. 2012. Paleogene Newfoundland sediment drifts. IODP Preliminary Report 342. pgs. 1-263. doi:10.2204/iodp.pr.342.2012
- Expedition 342 Scientists. 2014. Paleogene Newfoundland sediment drifts. IODP Proceedings 342. doi: 10.2204/iodp.proc.342.2014

Dissertation

- **Hull P.M.** 2010. Macroevolutionary patterns in planktonic foraminifera and the recovery of pelagic ecosystems from the Cretaceous-Paleogene mass extinction. *PhD Dissertation*. Scripps Institution of Oceanography, University of California San Diego.

PRESENTATIONS

Departmental & Research Group Lectures

- (up-coming) University of Texas at Arlington, Earth and Environmental Sciences [February 2017]
- (up-coming) Evolutionary Morphology Seminar Series, Committee on Evolutionary Biology (CEB), University of Chicago [Fall 2016]
- Paleo-Seminar, NOCS, University of Southampton [13th June, 2016]
- Max Planck for Chemistry, Division of Climate Geochemistry Seminar [June 30th, 2016]
- Earth and Planetary Science Seminar, Berkeley University [April 28th, 2016]
- Geological Sciences Seminar, Stanford University [April 12th, 2016]
- Fossil Coffee, University of California Museum of Paleontology, UC Berkeley [Mar 1st, 2016]
- Weeks Lecture, Department of Geosciences, University of Wisconsin-Madison [Feb 25th, 2016]
- Palaeobiology Group Seminar, Bristol University [May 21st, 2015]
- Earth Science Department, University of Southern California [March 9th, 2015]
- PaleoTalk, Smithsonian Tropical Research Institute, Panama [February 25th, 2015]
- Comparative Biology, American Museum of Natural History [February 9th, 2015]
- Department of Geosciences, Penn State University [October 28th, 2014]
- Paleo-Seminar, NOCS, University of Southampton [20th May, 2014]
- Department of Earth and Planetary Sciences, Rutgers University [February 26th, 2014]
- Department of Geosciences Lecture Series, Princeton University [February 12th, 2013]
- Department Colloquium, Earth and Planetary Sciences, Harvard University [November 19th, 2012]
- Ocean & Earth Sciences, NOCS, University of Southampton [November 15th, 2012]
- School of Earth Sciences, Stanford University [February 27-28th, 2012]
- Paleo Seminar, Smithsonian National Museum of Natural History [February 7th, 2012]
- MIT Oceanography & Climate Sack Lunch Seminar [January 25th, 2012]
- Biology Department Seminar, Woods Hole Oceanographic Institute [January 19th, 2012]
- Yale Institute for Biospheric Studies, Yale University [November 11th, 2011]
- Paleo-Coffee Seminar, Paleoclimate Group, Cardiff University [October 14th, 2011]
- MARUM Seminar, Universität Bremen [March 31st, 2011]
- Biogeology Seminar, Eberhard Karls Universität Tübingen [Nov 15th, 2010]

Invited Contributions [Conferences, Workshops & Meetings]

- **Hull P.M.** invited speaker to the International Conference on Paleoceanography. Utrecht, Netherlands [upcoming Sept 2016]
- **Hull P.M.** invited speaker, workshop participant, and summer school lecturer at workshop on ‘Global co-evolution of the ocean environment and its ecology’, University of Bristol, UK.
- **Hull P.M.** 2016. Closing keynote speaker to the Northeast Geobiology Symposium. Harvard University

- **Hull P.M.** and 20 co-authors. 2015. *Disentangling impact and volcanism in marine extinctions across the Cretaceous-Paleogene boundary*. Integrated Ocean Drilling Program Expedition 342 Paleogene Newfoundland Sediment Drifts Post-Cruise Science Meeting. Snowbird, Utah [invited speaker]
- **Hull P.M.** and 16 co-authors. 2015. *A single-locale benthic isotope record for the Eocene: a preview of coarse fraction and benthic isotope records from the ESIC*. Integrated Ocean Drilling Program Expedition 342 Paleogene Newfoundland Sediment Drifts Post-Cruise Science Meeting. Snowbird, Utah [invited speaker]
- **Hull P.M.** 2015. *Contrasting environmental and biotic effects of Deccan volcanism and bolide impact in open ocean sediments* for the STEPPE Workshop ‘Tracking biotic change across the K/Pg of India’. Seattle, Washington [invited speaker and workshop participant]
- **Hull P.M.** 2015. *You can’t get there from here: the problem of scaling from ‘minor’ to ‘mass’ extinctions* for the ASU Origins Project ‘Origins of Extinctions Workshop’ preceding the *Great Debate on Extinctions: Tragedy to Opportunity*. Tempe, Arizona [invited speaker and workshop participant]
- **Hull P.M.** 2014. *Rapidly quantifying the regulators of biodiversity in deep time*. FAPESP/UoS Workshop on ‘Identifying the regulators of biodiversity in deep time’. NOCS, University of Southampton, UK [invited speaker and invited contributor to related issue for *Philosophical Transactions B*]
- **Hull P.M.** 2014. *Evolution of (Oligocene to) Miocene Ecosystems*. Workshop on ‘North Atlantic drilling for climate dynamics –Filling the Oligo-Mio-Pliocene Gap in the North Atlantic’. University of Heidelberg, Germany [invited speaker and workshop participant]
- **Hull P.M.** 2014. *Endless Forms: big data in measuring the shape of life*. Yale Day of Data [invited speaker]
- **Hull P.M.**, Sexton P.F., Norris R.D., Wilson P.A., Blum P., Agnini C., Boulila S., Bown P.R., Coxall H., Friedrich O., Greenop R., Kirtland Turner S., Kordesch W.E.C., Liebrand D., Matsui H., Moriya K., Nishi H., Opdyke B.N.; Pälke H.; Penman D., Röhl U., Smith R., Westerhold T., Yamamoto Y., Zachos J.C. 2014. *Resolving Eocene time and palaeoceanography in exceptional detail: an update from IODP Expedition 342 (Newfoundland) consortia*. Climatic and Biotic Events of the Paleogene, Ferrara, Italy. [invited speaker]
- **Hull P.M.** 2013. *Ecosystem structure and mass extinctions*. Paleontological Society Short Course ‘Ecosystem Paleobiology and Geobiology’, GSA Annual Meeting, Denver, CO. [invited speaker and contributor to accompanying volume]
- **Hull P.M.**, Norris R.D., Sexton P.F. 2012. *All together now? sensitivity, dynamics, and predictability of planktonic foraminiferal species abundance vs community structure across the Plio-Pleistocene glacial-interglacial cycles*. AGU Fall Meeting, San Francisco, CA [invited speaker]
- Norris R.D., **Hull P.M.** 2012. *Geochemical consequences of mass extinction: the K/Pg compensation depth excursion*. AGU Fall Meeting, San Francisco, CA [invited contribution, presented by P.M. Hull]
- **Hull P.M.** 2012. *Geography, timing, and mechanisms of recovery from the KT mass extinction*. Agouron Institute ‘The comings and goings of animal life on earth’, Washington D.C. [invited speaker]

Other Conference Presentations [since 2010; only first author contributions listed]

- **Hull P.M.** 2014. *Foraminiferal species record the good years*. AGU 2014 Fall Meeting. San Francisco, CA. [oral presentation]
- **Hull P.M.** 2014. *Resolving Communities through time: new approaches for rapidly analyzing the >99%. 10th North American Paleontological Congress*. Gainesville, Fl. [oral presentation]
- **Hull P.M.**, Norris R.D., Bhattacharya, A. 2011. *Beyond the extinction: environmental and ecological interactions in the earliest recovery from the Cretaceous-Paleogene mass extinction*. Annual Meeting of the Palaeontological Association, Plymouth, England. [oral presentation]
- **Hull P.M.**, Norris R.D., Franks P.J.S. 2011. *Hypothesis testing with sediment mixing models: preliminary results from ‘unmixing’ the Cretaceous-Paleogene boundary*. Climate & Biota of the Early Paleogene, Salzburg, Austria. [poster presentation]

- **Hull P.M.**, Williams J.W., Norris R.D. 2011. *Community similarity across one million years of global change: late Pliocene phytoplankton in the North Atlantic*. International Biogeography Society Meeting, Heraklion, Greece. [poster presentation]
- **Hull P.M.**, Norris R.D., Sibert E.C., Bralower T.J., and Bhattacharya A. 2010. *Dichronous recovery of pelagic species richness and ecosystem structure from the Cretaceous-Paleogene mass extinction*. Annual Meeting of the Palaeontological Association, Ghent, Belgium. [poster presentation]
- **Hull P.M.**, Norris R.D., Bralower T.J., and Bhattacharya A. 2010. *Pelagic community structure following the end-Cretaceous extinction: export flux, taxonomic composition, and diachronous recovery of planktonic foraminifera and nannofossils*. 10th International Conference on Paleoceanography, San Diego, CA. [poster presentation]

Public Communication Of Science

- Happy Hour for the Mind, invited lecturer, Yale Club Library, New York, April 18th, 2016
- Tilde Science Café invited lecturer, Branford, CT, February 20th, 2016
- O.C. Marsh Fellows Program invited lecturer, Yale Peabody Museum of Natural History, New Haven, CT. February 18th, 2016
- Featured scientist in the in-progress children's book:
 - Kurtz K. (in prep) Ruth wants to be a scientist.
- Speaker at a JOIDES Resolution Outreach Event. New Rochelle, New York. April 6, 2013
- Interviewed in IODP Expedition 342 Outreach Videos, Summer 2012:
 - Brinkhuis D. 2012. IODP Expedition 342, Episode 3: Time Machine
https://www.youtube.com/watch?v=_qtvK35YhNE
 - Brinkhuis D. 2012. IODP Expedition 342, The Documentary!
<https://www.youtube.com/watch?v=A3ot11rBYXM>