

CURRICULUM VITAE
ANDRÉA GENEVIÈVE GROTTOLI

ADDRESS AND CONTACT INFORMATION:

School of Earth Sciences (SES)	Email: grottoli.1@osu.edu
The Ohio State University	Tel: 614-292-5782
125 South Oval Mall	Website: http://u.osu.edu/grottoli.1/
Columbus, OH 43210	Twitter: www.twitter.com/CoralResearch

RESEARCH INTERESTS:

- Impact of climate change (i.e., temperature and ocean acidification) on coral physiology, ecology, isotope biogeochemistry, and resilience
- Tropical paleoceanography derived from coral, gorgonian, and sclerosponge skeleton light isotope ratio ($\delta^{13}\text{C}$, $\delta^{18}\text{O}$, $\Delta^{14}\text{C}$) and elemental ratio (Cd/Ca, Ba/Ca, P/Ca, Sr/Ca) proxy records
- Impact of land use change on carbon cycle of rivers and coastal waters using $\delta^{13}\text{C}$, $\Delta^{14}\text{C}$, and trace elements

EDUCATION:

McGill University, Montreal Canada	Biology (with Distinction)	BSc. 1992
University of Houston, Texas	Biology (Marine Biogeochemistry)	PhD. 1998
University of California – Irvine, California	Postdoctoral Fellow (Paleoceanography)	1999-2000

Senior Thesis Advisor:	Prof. Robert Peters (deceased), McGill University
PhD Advisor:	Prof. Gerard M. Wellington (deceased), U. of Houston
Postdoctoral Advisor:	Prof. Ellen R.M. Druffel, U. of California – Irvine

POSITIONS HELD:

2014 - Professor, School of Earth Sciences, Ohio State University

2019 - President of the International Coral Reef Society

2019 - Director of the Coral Bleaching Research Coordination Network

2017 - Chair, Promotion and Tenure Committee, School of Earth Sciences (SES)

2008 - Affiliated Professor, Dept of Ecology, Evolution, and Organismal Biol., Ohio State U.

2013 - 2017 International Society for Reef Studies Council Member, Chair of Awards Committee

2005 - 2017 Head of the Stable Isotope Biogeochemistry Lab, School of Earth Sciences, OSU

2015 - 2016 OSU-President and Provost's Leadership Institute Fellow (PPLI)

2010 - 2016 Chair of the Water, Climate, & the Environment Division, School of Earth Sciences, OSU

2013 - 2014 OSU-Committee on Institutional Cooperation Academic Leadership Program Fellow

2008 - 2014 Associate Professor, School of Earth Sciences, Ohio State University

2008 - 2011 Associate Professor, Environmental Science Graduate Program, Ohio State U.

2005 - 2008 Assistant Professor, Environmental Science Graduate Program, Ohio State U.

2005 - 2008 Assistant Professor, School of Earth Sciences, Ohio State University

2004, 2012, 2016 Associate Editor for my session, Proceedings of the Int'l Coral Reefs Symposium

2004 - 2005 Career Enhancement Fellow, Woodrow Wilson National Fellowship Foundation

2001 - 2005 Assistant Professor, Dept of Earth & Environmental Sci., University of Pennsylvania

2001 - 2005 Faculty Fellow in Residence, Fisher-Hassenfeld House, University of Pennsylvania

2001 - 2003 Associate Editor, Coral Reefs (Journal of the International Society for Reef Studies)
 2002 - 2003 Co-Editor, Coral Reefs Special Issue: Env. and Climatic Proxies in Reef Organisms
 1999 - 2000 Dreyfus Postdoctoral Fellow in Environmental Chemistry, Univ. California-Irvine
 1998 Adjunct Faculty, Dept of Biology and Microbiology, California State U.-LA
 1998 Adjunct Faculty, Dept of Biology, Concordia University
 1993 - 1998 Graduate Student Teaching Assistant/ Research Assistant

AWARDS:

2018 American Geophysical Union, Division of Ocean Sciences, Voyager Award (Mid-Career)
 2017 American Association for the Advancement of Science (AAAS) Fellow
 2016 International Society for Reef Studies Fellow
 2016 International Society for Reef Studies Mid-Career Award
 2016 School of Earth Science Faculty Mentor Award
 2015-2016 Ohio State University President and Provost's Leadership Institute Fellow
 2013-2014 Committee on Institutional Cooperation Academic Leadership Program Fellow
 2004 F. W. Clarke Award, Geochemical Society, Young Scientist Award in geochemistry
 2004 Bradley Award: Geological Society of Washington's Best Paper Award
 2004 Woodrow Wilson National Fellowship, Career Enhancement Fellowship for Junior Faculty
 2004 Trustees Council of Penn Women Summer Faculty Research Fellowship
 2003 American Society of Mass Spectrometry Research Award
 2000 Best Paper Award: International Society for Reef Studies, Grottoli & Wellington: Coral Reefs
 1999 Dissertation Symposium in Chemical Oceanography XV, awardee and participant
 1999-2000 Dreyfus Postdoctoral Fellowship in Environmental Chemistry, U. of California - Irvine
 1999 University Women Postdoctoral Research Leave Fellowship, AAUW (declined for Dreyfus)
 1996-1998 Environmental Protection Agency Graduate STAR Graduate Fellowship
 1998 Graduate Student Research Excellence Award, University of Houston, TX
 1989 McConnell Entrance Award, McGill University, Canada

STATS SUMMARY:

Google Citation indices	All	Since 2013	Category	Career Total
Citations	3834	2088	Peer-reviewed publications	73
h-index	31	24	Total funding (total to Grottoli)	\$4.5M (\$3.5M)
i10-index	56	45	Lead PI	24 of 25 grants

PEER-REVIEWED PUBLICATIONS (*= my student advisee or postdoc, †=other students):

2018 (73) †Yuan XH, Cai WJ, Meile C, Hopkinson B, Ding Q, Chen B, *Schoepf V, Warner ME, Hoadley KD, Chen B, Liu S, Huang H, Ying Y, **Grottoli** AG, Quantitative interpretation of vertical profiles of calcium and pH in the coral coelenteron. *Marine Chemistry* 204:62-69, 10.1016/j.marchem.2018.06.001

2018 (72) *Levas S, **Grottoli** AG, Warner M, *Schoepf V, †Aschaffenburg M, *Baumann J, Matsui Y, Long-term recovery of Caribbean corals from bleaching. *Journal of Experimental Marine Biology and Ecology* 506:124-134, 10.1016/j.jembe.2018.06.003

2018 (71) Barker JD, **Grottoli** AG, Lyons WB, Stable isotope evidence for the biogeochemical

transformation of ancient organic matter beneath Suess Glacier, Antarctica. *Arctic, Antarctic, and Alpine Research*, 50:e1448643, 10.1080/15230430.2018.1448643

- 2018 (70) **Grottoli** AG, *Dalcin Martins P, Wilkins MJ, Johnston MD, Warner ME, Cai WJ, Melman TF, †Hoadley KD, †Pettay DT, Hu X, *Levas S, *Schoepf V, Coral physiology and microbiome dynamics under combined ocean warming and acidification. *PLoS ONE* 13(1): e0191156, 10.1371/journal.pone.0191156
 ➤ Press release by OSU, 4,267 views, Altmetric = 121
 ➤ Featured by Hakai Magazine, Technology.org, Science Newslines, EurekaAlert!, NewWise, and others
- 2017 (69) **Grottoli** AG, Tchernov D, Winters G, Physiological and Biogeochemical Responses of Super-Corals to Thermal Stress from the Northern Gulf of Aqaba, Red Sea. *Frontiers in Marine Science* 4:215, 10.3389/fmars.2017.00215
- 2017 (68) *Bellamy AR, Bauer JE, **Grottoli** AG, Influence of land use and lithology on sources and ages of nutritional resources for stream macroinvertebrates: a multi-isotopic approach. *Aquatic Sciences*, 79(4):925-939, 10.1007/s00027-017-0542-3
- 2017 (67) *Tanaka Y, **Grottoli** AG, Matsui Y, Suzuki A, Sakai K, Effects of nitrate and phosphate availability on the tissues and carbonate skeleton of scleractinian corals. *Marine Ecology Progress Series* 570:101-112, 10.3354/meps12079
- 2017 (66) *Schoepf V, Hu X, Holcomb M, Cai WJ, †Li Q, Wang Y, †Xu H, Warner ME, Melman TF, †Hoadley KD, Pettay DT, Matsui Y, *Baumann JH, **Grottoli** AG. Coral calcification under environmental change: a direct comparison of the alkalinity anomaly and buoyant weight techniques. *Coral Reefs* 36: 13-25, 10.1007/s00338-016-1507-z
- 2016 (65) †Hoadley KD, Pettay KD, **Grottoli** AG, Cai WJ, Melman TF, *Levas S, *Schoepf V, †Ding Q, †Yuan X, Wang Y, Matsui Y, *Baumann JH, Warner ME. High temperature acclimation strategies within the thermally tolerant endosymbiont *Symbiodinium trenchii* and its coral host, *Turbinaria reniformis*, differ with changing pCO₂ and nutrients. *Marine Biology* 163:134, 10.1007/s00227-016-2909-8
- 2016 (64) *Williams B, Thibodeau B, Chikaraishi Y, Ohkouchi N, Walnum A, **Grottoli** AG, Colin P. Consistency in coral skeletal amino acid composition offshore of Palau in the western Pacific warm pool indicates no impact of decadal variability in nitricline depth on primary productivity. *Limnology and Oceanography* 62:399-407, 10.1002/lno.10364
- 2016 (63) *Levas SJ, **Grottoli** AG, *Schoepf V, †Aschaffenburg M, *Baumann J, Bauer JE, Warner M. Can heterotrophic uptake of DOC and zooplankton mitigate C budget deficits in annually bleached corals? *Coral Reefs* 35:495-506 doi:10.1007/s00338-015-1390-z
- 2016 (62) Cai WJ, Ma Y, Hopkinson B, **Grottoli** A, Warner M, †Ding Q, Hu X, †Yuan X, *Schoepf V, Xu H, Han C, Melman T, †Hoadley K, Pettay DT, Matsui Y, *Baumann J, *Levas S, Ye Y, Wang Y. Microelectrode characterization of coral daytime interior pH and carbonate chemistry. *Nature Communications* 7:11144 doi: 10.1038/ncomms11144
 ➤ Press release by OSU, UD
- 2016 (61) LaVigne M, **Grottoli** AG, *Palardy J, Sherrell RM. Multi-colony calibrations of coral Ba/Ca with a contemporaneous *in situ* seawater barium record. *Geochimica et Cosmochimica Acta* 179:203-216.

- 2015 (60) †Hoadley KD, †Pettay DY, **Grottoli AG**, Cai WJ, Melman TF, *Schoepf V, †Hu X, †Li Q, †Xu H, Wang Y, Matsui Y, *Baumann JH, Warner ME. Physiological response to elevated temperature and $p\text{CO}_2$ varies across four Pacific coral species: Understanding the unique host+symbiont response. *Nature Scientific Reports* 5:18371, DOI: 10.1038/srep18371
- 2015 (59) *Schoepf V, **Grottoli AG**, *Levas SJ, †Aschaffenburg MD, *Baumann J, Matsui Y, Warner ME. Annual coral bleaching can impair the long-term recovery capacity of coral. *Proceedings of the Royal Society B* 282 (1819): 20151887. <http://dx.doi.org/10.1098/rspb.2015.1887>
 ➤ Covered by: OSU press release, Science World Report, Climate Wire, EurekaAlert!, others
- 2015 (58) Andersson AJ, Kline DI, Edmunds PJ, Archer SD, Bednarsek N, Carpenter RC, Chadsey M, Goldstein P, **Grottoli AG**, Hurst TP, King AL, Kubler JE, Kuffner IB, Mackey KRM, Menge BA, Paytan A, Reibesell U, Schnetzer A, Warner ME, Zimmerman RC. Understanding ocean acidification impacts on organismal to ecological scales. *Oceanography* 28(2):16–27, <http://dx.doi.org/10.5670/oceanog.2015.27>.
- 2015 (57) *Tanaka Y, **Grottoli AG**, Matsui Y, Suzuki A, Sakai K. Partitioning of nitrogen sources to coral algal endosymbionts with long-term ^{15}N -labelling and a mixing model. *Ecological Modeling* 309-310: 163-169, <http://dx.doi.org/10.1016/j.ecolmodel.2015.04.017>
- 2015 (56) *Levas, S, **Grottoli AG**, Warner ME, Cai WJ, Bauer J, *Schoepf V, Matsui Y, *Baumann JH, Melman TF, †Hoadley KD, †Pettay DT, †Q Li, †Hu X, Wang Y. Organic carbon fluxes mediated by corals at elevated $p\text{CO}_2$ and temperature. *Marine Ecology Progress Series*, 519:153-164, doi: 10.3354/meps11072.
- 2014 (55) *Schoepf V, McCulloch MT, Warner ME, *Levas SJ, Matsui Y, Aschaffenburg D, **Grottoli AG**. Short-term coral bleaching is not recorded by skeletal boron isotopes. *PLoS One* 9(11): e112011. doi:10.1371/journal.pone.0112011
- 2014 (54) *Baumann J, **Grottoli AG**, *Hughes AD, Matsui Y. Photoautotrophic and heterotrophic carbon in bleached and non-bleached coral lipid acquisition and storage. *Journal of Experimental Marine Biology and Ecology*. 461: 469-478. doi.org/10.1016/j.jembe.2014.09.017
- 2014 (53) *Schoepf B, *Levas SJ, Rodrigues LJ, *McBride MO, †Aschaffenburg MD, Matsui Y, Warner ME, Hughes A, **Grottoli AG**. Kinetic and metabolic isotope effects in coral skeletal carbon isotopes: a re-evaluation using experimental coral bleaching as a case study. *Geochimica et Cosmochimica Acta*. 146: 164-178. doi.org/10.1016/j.gca.2014.09.033
- 2014 (52) **Grottoli AG**, Warner ME, *Levas SJ, †Aschaffenburg M, *Schoepf V, †McGinley M, *Baumann J, Matsui Y. The cumulative impact of annual coral bleaching turns some coral species winners into losers. *Global Change Biology* 20(12): 3823-3833. 10.1111/gcb.12658
 ➤ Covered by: OSU Press release, Altmetric = 60
 ➤ NSF Science 360, SciGuru, Smithsonian , Ensia
- 2013 (51) *Hughes A, **Grottoli AG**. Heterotrophic compensation: A possible mechanism for resilience of coral reefs to global warming or a sign of prolonged stress? *PLoS ONE* 8(11): e81172, doi:10.1371/journal.pone.0081172
- 2013 (50) *Schoepf V, **Grottoli AG**, Warner ME, Cai W-J, Melman T, †Hoadley K, †Pettay D, †Hui X, †Li Q, †Xu H, Wang Y, Matsui Y, *Baumann JH. Coral energy reserves and calcification in a high- CO_2 world at two temperatures. *PLoS ONE* 8(10): e75049, doi:10.1371/journal.pone.0075049

- 2013 (49) **Grottoli** AG, *Matthews KA, *Palardy JE, McDonough WF. High resolution coral Cd measurements using LA-ICP-MS and ID-ICP-MS: Calibration and interpretation. *Chemical Geology*, 365: 151-159, 10.1016/j.chemgeo.2013.08.024
- 2013 (48) *Levas S, **Grottoli** AG, *Hughes A, Osburn C, Matsui Y. Physiological and biogeochemical traits of bleaching and recovery in the mounding species of coral *Porites lobata*: implications for resilience in mounding corals. *PLoS ONE* 8(5): e63267. doi:10.1371/journal.pone.0063267
- 2013 (47) *Moyer RP, **Grottoli** AG, Bauer JE. Carbon isotope biogeochemistry of tropical small mountainous river, estuarine, and coastal systems of Puerto Rico. *Biogeochemistry* 112(1-3): 589-612. doi: 10.1007/s10533-012-9751-y
- 2013 (46) †Padilla-Gamiño JL, Bidigare R, Barshis, Alamaru A, Hedouin L, Hernandez-Pech X, Kandel F, Soon SL, Roth M, Rodrigues L, **Grottoli** AG, Portocarrero C, Wagenhouser S, Buttler F, Gates RD. Are all eggs created equal? A case study from the Hawaiian reef building coral *Montipora capitata*. *Coral Reefs* 32(1): 137-152, doi: 10.1007/s00338-012-0957-1
- 2012 (45) *Moyer RP, **Grottoli** AG, Olesik J. A multi-proxy record of terrestrial inputs to the coastal ocean using minor and trace elements (Ba/Ca, Mn/Ca, Y/Ca) and carbon isotopes ($\delta^{13}\text{C}$, $\Delta^{14}\text{C}$) in a nearshore coral from Puerto Rico. *Paleoceanography* 27(3): PA3205, doi:10.1029/2011PA002249
- 2011 (44) †Hennige SJ, †McGinley M, **Grottoli** AG, Warner ME. Photoinhibition of *Symbiodinium* spp. within the reef corals *Montastraea faveolata* and *Porites astreoides*: implications for coral bleaching. *Marine Biology* 158(11): 2515-2526.
- 2011 (43) †Kilbourne KH, *Moyer RP, Quinn TM, **Grottoli** AG. Testing coral-based tropical cyclone reconstructions: an example from Puerto Rico. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 307(1-4): 90-97
- 2011 (42) **Grottoli** AG, *Rodrigues LJ. Bleached *Porites compressa* and *Montipora capitata* corals catabolise $\delta^{13}\text{C}$ -enriched lipids. *Coral Reefs* 30(3):687-692.
- 2011 (41) *Moyer RP, **Grottoli** AG. Coral Skeletal Carbon Isotopes ($\delta^{13}\text{C}$ & $\Delta^{14}\text{C}$) Record the Delivery of Terrestrial Carbon to the Coastal Waters of Puerto Rico. *Coral Reefs* 30(3): 791-802
- 2011 (40) *Williams B, **Grottoli** AG. Solution and laser ablation (LA) inductively coupled plasma-mass spectrometry measurements of Br, I, Pb, Mn, Cd, Zn, and B in the organic skeleton of soft corals and black corals. *Geochemistry, Geophysics, and Geosystems* 12(3): Q03011, doi:10.1029/2010GC003375.
- 2010 (39) *Hughes AD, **Grottoli** AG, Pease TK, Matsui Y, Acquisition and assimilation of carbon in non-bleached and bleached corals. *Marine Ecology Progress Series* 420: 91–101.
- 2010 (38) *Williams B, **Grottoli** AG, Recent shoaling of the nutricline and thermocline in the western tropical Pacific. *Geophysical Research Letters* 37(2): L22601, doi:10.1029/2010GL044867.
➤ Covered by Nature Research Highlights, Australian Broadcasting Company, AGU, MsNBC, USA Today, World News, Science Daily, Others.
- 2010 (37) *Williams B, **Grottoli** AG, Stable nitrogen and carbon isotope ($\delta^{15}\text{N}$ and $\delta^{13}\text{C}$) variability in shallow tropical Pacific soft coral and black coral taxa and implications for paleoceanographic reconstructions. *Geochimica et Cosmochimica Acta* 74(18):5280-88.

- 2010 (36) †LaVigne M, *Matthews KA, **Grottoli AG**, Cobb KM, Anagnostou E, Cabioch G, Sherrell RM. Coral skeleton P/Ca proxy for seawater phosphate: multi-colony calibration with a contemporaneous seawater phosphate record. *Geochimica et Cosmochimica Acta* 74(4):1282-1293
- 2010 (35) **Grottoli AG**, Adkins JF, Panero W, †Reaman D, Moots K. Growth rates, stable oxygen isotopes ($\delta^{18}\text{O}$), and strontium (Sr/Ca) composition in two species of Pacific sclerosponges (*Acanthocheatetes wellsi* and *Astroclera willeyana*) with $\delta^{18}\text{O}$ calibration and application to paleoceanography. *Journal of Geophysical Research - Oceans* 115(6): C06008, doi: 10.1029/2009JC005586.
- 2010 (34) *Wu H, **Grottoli AG**. Stable oxygen isotope records of corals and a sclerosponge in the Western Pacific warm pool. *Coral Reefs* 29(2): 413-418.
- 2010 (33) Lesser MP, Ojimi M, Gates R, Stat M, Slattery M, **Grottoli AG**. Photoacclimatization by the Coral *Montastraea cavernosa* in the Mesophotic Zone: Light, Food, and Genetics. *Ecology* 91 (4):990-1003.
- 2009 (32) *Adler RE, Polyak L, Ortiz JD, Kaufman DS, Channell JET, Xuan C, **Grottoli AG**, Sellen E, Crawford KA. Sediment record from the western Arctic Ocean with an improved Late Quaternary age resolution: HOTRAX core HLY0503-8JPC, Mendeleev Ridge. *Global and Planetary Change*. 68(1-2):18-29, doi: 10.1016/j.gloplacha.2009.03.026
- 2009 (31) Fitt WK, Gates R, Hoegh-Guldberg O, Bythell J, Jatkar A, **Grottoli AG**, Gomez M, Fisher P, Franklin D, Lajeunesse T, Pantos O, Iglesias-Prieto R, *Rodrigues LJ, Torregiani JM, van Woesik R, Lesser MP. Response of two species of Indo-Pacific corals, *Porites cylindrica* and *Stylophora pistillata*, to thermal stress: the host does matter in determining the tolerance of corals to bleaching. *Journal of Experimental Marine Biology and Ecology* 373(2): 102-110.
- 2009 (30) Anthony KRN, Hoogenboom M, Maynard J, **Grottoli AG**, Middlebrook R. Energetics approach to predicting mortality risk from environmental stress: a case study of coral bleaching. *Functional Ecology* 23(3):539-550. Doi: 10.1111/j.1365-2435.2008.01531.x
- 2008 (29) *Palardy JE, *Rodrigues LJ, **Grottoli AG**. The importance of zooplankton to the daily metabolic carbon requirements of healthy and bleached corals at two depths. *Journal of Experimental Marine Biology and Ecology*. 367(2):180-188
- 2008 (28) **Grottoli AG**. Past climate from corals. In: *Encyclopedia of Ocean Sciences: Second Edition* [Eds. J Steele, S Thorpe, K Turekian], Academic Press, London pp. 338-347
- 2008 (27) *Matthews KA, **Grottoli AG**, McDonough, *Palardy JE. Upwelling, species, and depth effects on coral skeletal cadmium-to-calcium ratios (Cd/Ca). *Geochimica et Cosmochimica Acta*. 72 (18): 4537-4550
- 2008 (26) *Rodrigues LJ, **Grottoli AG**, Lesser MP. Long-term changes in the chlorophyll fluorescence of bleached and recovering corals from Hawaii. *Journal of Experimental Biology*. 211(15): 2502-2509
- 2008 (25)*Rodrigues LJ, **Grottoli AG**, Pease T. Lipid class composition of bleached and recovering *Porites compressa* Dana, 1846 and *Montipora capitata* Dana, 1846 corals from Hawaii. *Journal of Experimental Marine Biology and Ecology* 358 (2): 136-143
- 2008 (24) †LaVigne M, Field MP, Anagnostou E, **Grottoli AG**, Wellington GM, Sherrell RM Skeletal

- P/Ca tracks upwelling in Gulf of Panamá coral: Evidence for a new seawater phosphate proxy. *Geophysical Research Letters* 35(5): L05604, doi:10.1029/2007GL031926
 ➤ Editor's Choice in Science (2008, 319:1590-1591) and AGU Choice Highlights
- 2007 (23) †Narayanan V, Anirudhan S, **Grottoli** AG. Oxygen and carbon isotope analysis of the Miocene limestone of Kerala and its implications to paleoclimate and its depositional setting. *Current Science* 93(8): 1155-1159
- 2007 (22) *Rodrigues LJ, **Grottoli** AG. Energy reserves and metabolism as indicators of coral recovery from bleaching. *Limnology and Oceanography* 52(5): 1874-1882.
- 2007 (21) **Grottoli** AG, Eakin M. A review of modern coral $\delta^{18}\text{O}$ and $\Delta^{14}\text{C}$ proxy records. *Earth – Science Reviews* 81(1-2): 67-91
- 2006 (20) *Matthews KA, McDonough W, **Grottoli** AG. Cadmium measurements in coral skeleton using isotope dilution-inductively coupled plasma-mass spectrometry. *Geochemistry, Geophysics, and Geosystems*, 7(11): Q11021, doi:10.1029/2006GC001352
- 2006 (19) Eakin CM, **Grottoli** AG. Coral reef records of past climate change. In: *Coral Reefs and Climate Change: Science and Management* [eds. Phinney, J., Skirving, W., Kleypas, J., Hoegh-Guldberg, O., Strong, A.E.], AGU publishers, Coastal and Estuarine Studies 61:33-54.
- 2006 (18) **Grottoli** AG, *Rodrigues LJ, *Palardy JE. Heterotrophic plasticity and resilience in bleached corals. *Nature* 440(7088): 1186-1189 doi:10.1038/nature04565
 ➤ Covered by NPR (Science Fridays), Quirks and Quarks radio show (CBC Radio Canada), Discovery Channel News, Washington Post, Scientific American, OSU Today, Columbus Dispatch, and others
- 2006 (17) **Grottoli** AG. Monthly resolved stable oxygen isotope record in a Palauan sclerosponge *Acanthocheatetes wellsi* for the period of 1977-2001. *Proceedings of the 10th International Coral Reef Symposium*, pp. 572-579.
- 2006 (16) *Rodrigues L, **Grottoli** AG. Lipids and chlorophyll in bleached and recovering *Montipora capitata* from Hawaii: An experimental approach. *Proceedings of the 10th International Coral Reef Symposium*, pp. 696-701.
- 2006 (15) *Rodrigues LJ, **Grottoli** AG. Calcification rate and the stable carbon, oxygen, and nitrogen isotopes in the skeleton, host tissue, and zooxanthellae of bleached and recovering Hawaiian corals. *Geochimica et Cosmochimica Acta* 70(11): 2781- 2789
- 2006 (14) *Palardy JE, **Grottoli** AG, *Matthews KA. Effect of naturally changing zooplankton concentrations on feeding rates of two coral species in the Eastern Pacific. *Journal of Experimental Marine Biology and Ecology*, 331(1):99-107
- 2005 (13) **Grottoli** AG, *Rodrigues LJ, *Matthews KA, *Palardy JE, Gibb O. Pre-treatment effects on coral skeletal $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$. *Chemical Geology* 221(3-4):225-242
- 2005 (12) *Palardy JE, **Grottoli** AG, *Matthews K. Effects of upwelling, depth, morphology and polyp size on feeding in three species of Panamanian corals. *Marine Ecology Progress Series* 300:79-89
- 2004 (11) **Grottoli** AG, *Rodrigues LJ, *Juarez C. Lipids and stable carbon isotopes in two species of Hawaiian corals, *Porites compressa* and *Montipora verrucosa*, following a bleaching event. *Marine Biology* 145(3): 621-631

- 2004 (10) †Hönisch B, Hemming NG, **Grottoli** AG, Amat A, Hanson GN, Bijma J. Assessing scleractinian corals as recorders for paleo-pH: Empirical calibration and vital effects. *Geochimica et Cosmochimica Acta* 68(18): 3675-3685
- 2003 (9) **Grottoli** AG, Gille ST, Druffel ERM, Dunbar RB. Decadal timescale shift the ^{14}C record of a central equatorial Pacific coral. *Radiocarbon* 45(1): 91-99
- 2002 (8) **Grottoli** AG. Effect of light and brine shrimp levels on the skeletal $\delta^{13}\text{C}$ values of the Hawaiian coral *Porites compressa*: a tank experiment. *Geochimica et Cosmochimica Acta* 66(11): 1955-1967
- 2001 (7) **Grottoli** AG. Past Climate From Corals. In: *Encyclopedia of Ocean Sciences: First Edition* [Eds. J Steele, S Thorpe, K Turekian], Academic Press, London pp. 338-347
- 2000 (6) **Grottoli** AG. Stable carbon isotopes ($\delta^{13}\text{C}$) in coral skeletons. *Oceanography* 13:93-97
- 1999 (5) **Grottoli** AG. Variability in stable isotopes and maximum linear skeletal extension in reef corals in Kaneohe Bay, Hawaii. *Marine Biology* 135(3): 437-449
- 1999 (4) **Grottoli** AG, Wellington GM. Effects of light and zooplankton on skeletal $\delta^{13}\text{C}$ values in the Eastern Pacific corals *Pavona clavus* and *P. gigantea*. *Coral Reefs* 18(1):29-41
➤ Best Paper Award: International Society for Reef Studies in 2000
- 1997 (3) **Grottoli**-Everett AG, Wellington GM. Fish predation on the scleractinian coral *Madracis mirabilis* controls its depth distribution in the Florida Keys. *Marine Ecology Progress Series* 160: 291-293
- 1995 (2) **Grottoli**-Everett AG. Bleaching and lipids in the Pacific coral *Montipora verrucosa*. In *Ultraviolet Radiation & Coral Reefs*. [eds: Gulko D, Jokiel PL], Sea Grant Publication UNIHI-SEAGRANT-CR-95-03, Hawaii Institute of Marine Biology Technical Report #41:107-113
- 1995 (1) **Grottoli**-Everett AG, Kuffner I. Uneven bleaching within colonies of the Hawaiian coral *Montipora verrucosa*. In *Ultraviolet Radiation & Coral Reefs*. [eds: Gulko D, Jokiel PL], Sea Grant Publication UNIHI-SEAGRANT-CR-95-03, Hawaii Institute of Marine Biology Technical Report #41:115-120

DISSERTATION

Grottoli-Everett (1998) Interpretation of stable carbon isotopes in reef coral skeletons and application for paleoclimate reconstruction. PhD Dissertation. University of Houston p.225

NON PEER-REVIEWED PUBLICATIONS (*=student advisee):

- 2018 (12) **Grottoli** AG, John Island and Coral Reefs, *John Island Camp Alumni News Magazine*, Spring 2018 <http://www.johnisland.ymca.ca/images/2018spring%20jic%20newsletter.pdf>
- 2017 (11) **Grottoli** AG, Shum CK, Durand M, Thompson L, Curtis PS, Mark B, Mosley-Thompson E, Cervenec J, Bauer J, Wilson A. Climate Change: March for Science - Columbus, *March for Science - Columbus*, 22 April 2017, <http://marchforscience-columbus.webflow.io/all-stories/climate-change-c>
- 2016 (10) Warner, M.E., Barshis, D.J., Davies, S.W., **Grottoli**, A.G., LaJeunesse, T.C., van Woesik, R. Investigating coral bleaching in a changing climate: Our state of understanding and

- opportunities to push the field forward. *Report of the NSF U.S. Investigator Workshop on Coral Bleaching*, June 17–18, 2016. Hawaii Prince Hotel, Honolulu, HI, 26 pp.
- 2016 (9) **Grottoli** AG, Warner ME. National Science Foundation US Investigators Coral Bleaching workshop. *Reef Encounters* 31(2):61-61
- 2016 (8) **Grottoli** AG. Faculty profile: Andréa Grottoli in *School of Earth Sciences News and Notes* newsletter. August edition, pp. 3-4.
- 2015 (7) **Grottoli** AG. As the Earth enters its third mass bleaching event, will corals survive?, *The Conversation*, 20 Nov 2015, <http://theconversation.com/drafts/50740>
- 7,693 unique readers
 - republished by IFLScience, The Huffington Post, Honolulu Civil Beat, Epoch Times
- 2011 (6) **Grottoli** AG. Ocean Explorers Tank Guide. A picture book, reference guide, and poster to accompany the live saltwater coral tank at the Batelle Discovery Center.
- 2008 (5) *Williams B, **Grottoli** AG. Attempts to culture and monitor growth rates in deep-water antipatharians and gorgonians. In: *Characterization of Northern Gulf of Mexico Deepwater Hard Bottom Communities with Emphasis on Lophelia Coral - Lophelia Reef Megafaunal Community Structure, Biotopes, Genetics, Microbial Ecology, and Geology*. [Eds KJ Sulak, MT Randall, KE Luke, AD Norem, JM Miller]. USGS Open-File Report 2008-1148; OCS Study MMS 2008-015, 15 April 2008 available at <http://cars.er.usgs.gov/coastaleco/>
- 2006 (4) **Grottoli** AG. Acceptance of the 2004 W.F. Clarke Award. *Geochimica et Cosmochimica Acta* 70(18 suppl.): S17-S18.
- 2004 (3) **Grottoli** AG, *Rodrigues LJ, *Juarez C. Effect of bleaching on the coral host total lipid content, lipid class composition, and skeletal stable isotopic composition. In: *The effects of combined sea temperature, light, and carbon dioxide on coral bleaching, settlement and growth* [Ed. JC Hendee]. NOAA Research Special Report (February, 2004), Silver Spring, MD, p. 661-64.
- 2004 (2) **Grottoli** AG. ICRS Workshop Participants (2004). 10th ICRS Pre-Symposium Workshop on Coral Reefs and Global Change. *Reef Encounter* 32: 63-64.
- 2003 (1) Swart PK, **Grottoli** A. Proxy indicators of climate in coral skeletons: a perspective. *Coral Reefs* 22(4): 313-315.

MANSUCRIPTS IN REVIEW OR PREP (* = my student advisees, † = other students):

- *Bellamy AR, Bauer JE, **Grottoli** AG (submitted) Autochthonous, allochthonous, and aged carbon and organic matter contributions to macroinvertebrate nutrition in the Susquehanna River Watershed. *Freshwater Science*
- Grottoli** AG, *Gava D, Olesik J, (in prep) Natural variability of P/Ca, Pb/Ca, and Ba/Ca in two species of western Pacific sclerosponges. *Chemical Geology*
- Grottoli** AG (submitted) Coral reefs and climate change: We are running out of time. In: *Time: An interdisciplinary conversation across the sciences, arts and humanities* [Eds: SK Gribetz & L Kaye]
- *Bellamy AR, Bauer JE, **Grottoli** AG (in prep) Temporal Variability in Autochthonous and Allochthonous Nutritional Sources to Macroinvertebrates in a Temperate Stream. *Marine and Freshwater Research*

- *Kelsey SA, **Grottoli** AG, Bauer JE, Matsui Y, *Huey-Sanders TM (in prep) Impacts of agriculture and tillage practices on headwater stream fluxes of organic and inorganic carbon in temperate watersheds. *Aquatic Sciences*
- Baums IB, Davies SW, Kenkel CD, Kitchen SA, Kuffner, IB Baker, AC, LaJeunesse, TC, Matz, MV, Miller MW, **Grottoli** AG, Palumbi SR, Parkinson JE, Shantz AA (submitted) How to maximize future adaptive potential of restored coral populations. *Ecological Monographs*
- Parkinson JE, Barker, AC, Baums IB, Davies SW, **Grottoli** AG, Kitchen SA, LaJeunesse TC, Matz MV, Miller MW, Shantz AA, Kenkel CD (submitted) Molecular tools for coral reef restoration: beyond biomarker discovery. *Conservation Letters*

FUNDED GRANTS AND FELLOWSHIPS

- 2019-2022 **National Science Foundation** - Biological Oceanography, Coral Bleaching Research Coordination Network. Grottoli AG (sole PI) \$499,828. Grottoli is the Director of the Network. She will be coordinating activities with her steering committee including a series of workshops, outreach programs, and early career training opportunities.
- 2018-2019 **HW Hoover Foundation**, Educating and inspiring the next generation of coral conservation scientists (part II). Grottoli AG (sole PI) \$84,909
- 2016-2018 **HW Hoover Foundation**, Educating and inspiring the next generation of coral conservation scientists. Grottoli AG (sole PI) \$74,991
- 2014-2018 **National Science Foundation** – Biological Oceanography, Phenotype and genotype of coral adaptation and acclimatization to global change. AG Grottoli (lead PI), \$348,133.
- 2014-2015 **National Science Foundation** – RAPID collaborative proposal: Will corals recover from bleaching under ocean acidification conditions? Grottoli AG (lead PI), Toonen RJ \$186,300 (amount to Grottoli \$158,420).
- 2010-2014 **National Science Foundation** – Ocean Acidification Category 1 - Interactive Effects of Temperature, Nutrients, and Ocean Acidification on Coral Holobiont Physiology and Calcification. Grottoli AG (lead PI), Cai W-J, Warner M \$1,077,588 (amount to Grottoli \$367,800).
- 2012-2013 **PADI Foundation**, Protection for corals from global warming? Grottoli AG, \$8,440
- 2009-2012 **National Science Foundation** – Biological Oceanography, Collaborative Research: Physiology and Biogeochemistry of Repeatedly Bleached and Recovering Caribbean Corals. AG Grottoli (lead PI) and M Warner \$764,935 (amount to Grottoli \$388,374).
- 2009 **National Science Foundation** – EAR Instrumentation and Facilities, Acquisition of a liquid water isotope analyzer for hydrological, glaciological and geochemical research. Lead PI: AE Carey, Co-PIs: AG Grottoli, IM Howat, WB Lyons, BG Mark \$57,700.
- 2008-2010 **Ohio State University** Carbon, Water, and Climate Seed Grant Program, Natural Variability and Sources of Dissolved and Particulate Carbon in Streams of Various Land-Use Types Within the Coshocton, OH Watershed. AG Grottoli (sole PI) \$52,973
- 2007-2009 **Mellon Foundation**, Natural variability and history of the transfer of terrestrial carbon to the coastal ocean in Puerto Rico. AG Grottoli (sole PI) \$75,000.
- 2005-2009 **National Science Foundation** Division of Biological Oceanography, Collaborative research: Acquisition, allocation, and utilization of carbon in bleached and recovering corals. (OCE#0542415) AG Grottoli (lead PI) & TK Pease \$667,660 (amount to Grottoli \$329,780).
- 2004-2007 **National Science Foundation** Division of Chemical Oceanography, Stable Isotopes and strontium in western Pacific sclerosponges: calibration and applications to

- paleoceanography (OCE#0426022) AG Grottoli (sole PI) \$195,249.
- 2004-2006 **Petroleum Research Foundation**, Cadmium and barium in corals: a field study. AG Grottoli (sole PI) \$35,000.
- 2004-2006 **Mellon Foundation**, What is the Effect of Land Use Change on the Carbon Cycle in Puerto Rico? AG Grottoli (sole PI) \$75,000.
- 2004 **Woodrow Wilson National Fellowship**, Career Enhancement Fellowship for Junior Faculty. AG Grottoli \$31,500 and one year of teaching relief.
- 2004 **Trustees Council of Penn Women Summer Faculty Research Fellowship**, Effects of Terrestrially Derived Sediments on Corals in the Guanica Preserve, Puerto Rico over the past century. AG Grottoli (sole PI) \$5000.
- 2004 **University of Pennsylvania Research Foundation**, Late Holocene climate inferred from fossil corals of the Gulf of Aqaba (Red Sea). AG Grottoli (sole PI) \$25,000.
- 2003-2004 **American Society of Mass Spectrometry Research Award**, Developing new geochemical tools for paleoclimate reconstruction: *In situ* calibration of stable isotopes in western tropical Pacific sclerosponges. AG Grottoli (sole PI) \$25,000.
- 2002-2003 **University of Pennsylvania Research Foundation**, Upwelling records in corals: a multi-proxy approach. AG Grottoli (sole PI) \$25,000.
- 2001-2002 **University of Pennsylvania Research Foundation**, Sclerosponge and paleoclimate reconstruction. AG Grottoli (sole PI) \$28,000.
- 1999-2001 **National Ocean and Atmospheric Association** Global Programs, Identification and modeling of seasonal to decadal timescale variations in the zonal currents of the central equatorial Pacific. ERM Druffel (lead PI), ST Gille (co-PI), AG Grottoli (co-PI) \$179, 675.
- 1999-2000 **Dreyfus Postdoctoral Fellowship** in Environmental Chemistry, AG Grottoli \$80,000.
- 1999-2000 **PADI Foundation**, Coral bleaching. AG Grottoli (sole PI) \$8,858.
- 1996-1998 **Environmental Protection Agency** Graduate Students to Achieve Results (STAR) Fellowship, Paleoclimate Reconstruction via Stable Carbon Isotopes ($\delta^{13}\text{C}$) in Reef Coral Skeletons. AG Grottoli \$75,000.

PROPOSALS PENDING

- National Science Foundation DBI-IIBR**: Infrastructure Innovation, Collaborative Research: IIBR Informatics: Towards accurate and low-cost underwater 3D modeling of living corals with applications to understanding their biomass and population dynamics. Lead PI: R Quin, Co-PIs: A **Grottoli**, J Porter (\$799,157)
- Batelle – BETHA**: Using Reefs to Communicate Science and Technology. Lead PI: L Babcock, Co-PIs: M Bevis, D Cole, A **Grottoli**, J Leonard-Pingel, M Daly (\$59,638)
- Schmidt Ocean Institute**: Nutritional therapy for bleached corals: a novel Underwater Zooplankton Enhancing Light Array (UZELA) technology to stimulate coral feeding and increase recovery rates from coral bleaching, minimize mortality, and save high value reefs. Lead PI: A **Grottoli**, co-PI: R Toonen (\$430,000)

TEACHING EXPERIENCE:

(UG = undergraduate students, G = Graduate students, E = typical enrollment numbers)

The Ohio State University (2005 – present):

Advanced Oceanography (UG, G, E25)	Intro to Earth System Science (UG, E150)
Principles of Oceanography (UG, E50)	Stable Isotope Biogeochemistry (UG, G, E15)
Carbonate Geology (UG, G, E15)	Carbonate Geology Field Course (UG, G, E15)

Seminar Limnol. & Oceanogr (G, E8)
 School of Earth Sciences Colloquium
 Global & Environmental Change Div. Seminar

Pauley Summer Research Program (G, E15)
 Independent Study Mentor (UG, G)

University of Pennsylvania (2001 – 2004):

Carbon Isotope Geochemistry (G, E8)
 Introductory Oceanography (UG, E200)
 Independent Study Mentor (UG, G)

Recent Climate Change (G, E4)
 Freshman Seminar in Oceanography (UG, E25)

Adjunct Faculty (1998):

Evolution, California State U. - Los Angeles (UG, E40)
 Nutrition, Concordia University, Irvine, CA (UG, E20)

Teaching Assistant at the University of Houston (1993-1996):

Ecology (teach/coordinate) Invertebrate Zoology (UG, E10) Genetics (UG, E20/section)

Live Broadcast Teaching:

1996 JASON PROJECT VII Education program. 40 live broadcasts from Aquarius Habitat (NURC/NOAA), FL (see <http://www.jason.org>)

OTHER PROFESSIONAL SYNERGISTIC ACTIVITIES AND RELATED EXPERIENCE:

Workshops:

- 2019 Lead a P&T Dossier workshop in SES. Ohio State University, 11 Jan
- 2018 Lead a P&T Dossier workshop in SES. Ohio State University, Jan
- 2018 OSU P&T Dossier Workshop for P&T Chairs. Ohio State University, 11 July
- 2017 Lead 3 workshops to develop a Faculty Mentor Responsibilities Policy in SES, Fall
- 2017 Lead 2 workshops to revise the annual faculty report form in SES, Fall
- 2017 OSU P&T Dossier Workshop for P&T Chairs, Ohio State University, 30 August
- 2017 OSU P&T VITA dossier writing workshop for P&T Chairs, OSU, 6 September
- 2016 Executive Committee member US Investigators Coral Bleaching Workshop (17-18 June) Honolulu, HI
- 2014 Big10 Academic Alliance - Academic Leadership Program: Workshop on Money, Management, and Strategies. Champaign, IL (10-12 April).
- 2014 Big10 Academic Alliance - Academic Leadership Program: Workshop on Internal and External Relationships in the University, Purdue University, West Lafayette, IN (6-8 Feb)
- 2013 Big10 Academic Alliance - Academic Leadership Program: Workshop on Education, Community Engagement, and Diversity, Michigan State U., East Lansing, MI (3-5 Oct)
- 2013 Ocean Acidification in the Caribbean workshop. Mote Marine Lab, Sarasota, FL
- 2010 Organic Sustainability Grant Planning Meeting. Coshocton, OH
- 2006 Society of Sedimentary Geology (SEPM), course 19: Quaternary Reefs and Platforms: bridging the gap between ancient and the modern. – invited speaker and panelist, American Association of Petroleum Geologists Conference, Houston, TX (April)
- 2004 International Coral Reef pre-Symposium Workshop: Global Change and Coral Reefs University of Tokyo, Japan
- 2004 Woodrow Wilson Career Enhancement Fellowship Fall Retreat. Princeton, NJ
- 2003 Coral Reefs, Climate, and Coral Bleaching Workshop (NOAA, DOI, EPA) (June), Turtle Bay, Hawaii
- 2003 CREWS: Caribbean Marine Research Center/ Lea Stocking Island (CMRC/LSI) Workshop on Combined factors on coral bleaching think-tank (January) Lea Stocking Island, Bahamas

- 2001 National Association of Geoscience Teachers Workshop for Early Career Faculty in Geosciences, Teaching, Research, and Managing, College of William and Mary
- 2001 Finnigan MAT Training Course, University of Ottawa, October
- 1994 Measurements of Ultraviolet Radiation in Tropical Coastal Ecosystems, University of Hawaii, Honolulu, HI, August 3-5
- 1994 Pauley Summer Program on Ultraviolet Radiation and Coral Reefs, Hawaii Institute of Marine Biology, HI, June-August

Outreach and Service (see also Publicity and Media Outreach below for more):

- 2018 - 2019 Louis Stokes Alliances for Minority Participation (LSAMP) Mentor to Kiya Hailu - Program at OSU to increase underrepresented students in STEM fields
- 2018 OSU-Graduate Faculty Representative – PhD final oral examination for Tingyang Zhou, Biophysics, July 13
- 2018 Judge for the 2018 Denmen Undergraduate Research Forum, The Ohio State University
- 2017 Expert discussion leader at the OSU SENR and Office of Energy and Environment’s Environmental Film Series screening of the film “Chasing Coral”, 30 Oct, Columbus, OH
- 2017 Expert discussion leader at First Unitarian Universalist Church screening of the film “Chasing Coral”, 24 Sept, Columbus, OH
- 2017 OSU-Graduate Faculty Representative – PhD final oral examination for Aimee Yoon, Sociology, June
- 2017 Judge for the 2017 Denmen Undergraduate Research Forum, The Ohio State University
- 2016 Interviewed by Olentangy Liberty High School student Amadi Ejouadi, December
- 2014 - 2016 Louis Stokes Alliances for Minority Participation (LSAMP) Mentor to Zuri Brooks - Program at OSU to increase underrepresented students in STEM fields
- 2014 - 2015 Mentor to Postdoc Dr. Jeremy Williams through the Committee on Institutional Cooperation - Professorial Advancement Initiative (CIC-PAI)
- 2014 - 2017 International Society for Reef Studies Council Member and Awards Committee Chair
- 2015 Host and organized SES Climate, Water, and the Environment Mini-Symposium (Oct)
- 2015 OSU-Graduate Faculty Representative – PhD Final Oral Examination for Hsiao-chi Chang, EEOB, May
- 2015 Judge for the 2015 Natural and Mathematical Sciences Undergraduate Research Forum, Ohio State University
- 2015 Hosted the Hawaii Institute of Marine Biology Field trip for OSU Alumni in Hawaii
- 2014 Host and organized SES Climate, Water, and the Environment Mini-Film Festival (Oct)
- 2014 Host biology Scholars Program Lab tour and Research experience talk, OSU, Oct
- 2014 OSU – Welcome Commencement Speaker, August
- 2013 OSU-Graduate Faculty Representative – PhD Final Oral Examination of Forrest Raffel, Integrated Biomedical Sciences, Dec
- 2012 Invited speaker at OSU-ASC Renaissance Rediscovery Alumni Program
- 2012 4Coral Research Group: Open House at the Reef Systems Coral Farm
- 2012 Invited speaker at Friendship Village of Columbus senior home for “Great Decisions” discussion on the state of the oceans, March
- 2012 Invited speaker at SCUBAFEST Ohio – Coral conservation and diving
- 2012 OSU-Graduate Faculty Representative – PhD Final Oral Examination of Ryan Harrison in Dept of Education, February
- 2010 - 2014 Young Ocean Explorers Program Director -Batelle Discovery Center
- 2011 Ocean Explorers Tank teacher training session at the Batelle Discovery Center

- 2011 Panelist for the Undergraduate Research Office's Faculty Perspectives on Undergrad. Research panel
- 2011 4Coral Research Group: Open House at the Reef Systems Coral Farm
- 2010 Biology Scholars Program Lab tour and undergrad research experience presentation, Jan
- 2010 Arts and Sciences Parental Leave Working Group member (May – July), OSU
- 2010 Get a Passport Campaign feature, Office of International Affairs, OSU
- 2009 - 2010 School of Earth Sciences Webpage coordinator, The Ohio State University
- 2010 Judge for the 2010 Denman Undergraduate Research Forum, The Ohio State University
- 2009 OSU-Graduate Faculty Representative – PhD Final Oral Examination in History, Sept
- 2009 Judge for the 2009 Undergraduate Research Forum, College of Mathematical and Physical Sciences, Ohio State University
- 2008 OSU-Graduate Faculty Representative – PhD Final Oral Examination in Education, Sept
- 2008 Hosted a Summer Research Opportunity Program student Frances Lugo from Puerto Rico
- 2008 Judge for the 2008 Undergraduate Research Forum, College of Mathematical and Physical Sciences, Ohio State University
- 2008 Science Olympiad Oceanography Coach, Grandview Middle School
- 2007 Hawaii Institute of Marine Biology Pauley Summer Research Program, invited instructor
- 2007 Hosted a Summer Research Opportunity Program student Frances Lugo from Puerto Rico
- 2007 Judge for the 2007 Undergraduate Research Forum, College of Mathematical and Physical Sciences, Ohio State University
- 2007 Science Olympiad Oceanography Coach, Grandview Middle School
- 2007 Student Shadow for a day, 6th Grader Tyler Cleveland
- 2006 Dinner for 12 Strangers invited faculty guest, Ohio State University dinner with undergrads, alumni, and faculty
- 2006 Hosted the Hawaii Institute of Marine Biology Field trip for OSU Alumni in Hawaii
- 2006 Stone Lab Oceanography Field trip for undergraduate non-majors
- 2006 Judge for the 2006 Undergraduate Research Forum, College of Mathematical and Physical Sciences, Ohio State University
- 2005 Dominion Middle School, Gifted and Talented program. Presentation and discussion on coral reef conservation with 5th graders.
- 2005 Mainland Regional High School Learning about Science. All day interactive visit to three labs in geoscience and bioengineering.
- 2005 Women in Science lecture and discussion for grad/undergrad students
- 2005 New Jersey Aquarium field-trip for undergraduates
- 2003 Gender Equity Panel: panel discussion with undergraduates on women in academia
- 2004 Jersey Shore field-trip for undergraduates
- 2001-2005 Fisher-Hassenfeld House Faculty Fellow in residence full-time, 600 undergrads
- 2001-2005 Research and Careers in Marine Science yearly presentation and discussion with undergraduates
- 2003 Graduate School of Education: Global Climate and ENSO seminar.
- 2003 Healthy Food Choices in Dining: F-H House Healthy Living discussion group leader
- 2004 Penn Reading Project Discussion Group Leader (The Tipping Point, by Gladwell)
- 2003 Penn Reading Project Discussion Group Leader (The Quiet American, by Greene)
- 2002 Penn Reading Project Discussion Group Leader (When Things Fall Apart, by Achebe)
- 2001 Penn Reading Project Discussion Group Leader (Candide, by Voltaire)
- 2002 Women in Leadership Series: panel discussion on women in science with undergrads

Research Cruises:

- 2011 Mauii, *R/V Ka`imikai-o-Kanaloa*, Feb 24 – Mar 4
- 2005 Gulf of Mexico, *R/V Seward Johnson*, Sept 15-20
- 2002 Gulfs of Panama and Chiriqui, *R/V Urraca*, July 19-26
- 2000 Eastern Atlantic, *R/V Knorr*, June 9- July 1
- 1999 North Central Pacific, *R/V Melville*, May 24-June 15

Panelist:

- 2018 Women in STEMM panelist, OSU STEMM Alumni Association
- 2016 National Science Foundation Biological Oceanography panel
- 2015 National Science Foundation Postdoctoral Research Fellow panel
- 2012 National Science Foundation Ocean Acidification panel
- 2012 Comprehensive Equity at Ohio State (CEOS) and the Women's Place: Budgeting and Grant Writing panelist
- 2011 Undergraduate Research Office's Faculty Perspectives on Undergrad. Research panel
- 2007 National Science Foundation – Site review panel of the National Ocean Science Accelerator Mass Spectrometry (NOSAMS) facility at Woods Hole Oceanographic Institution, Oct
- 2007 Women in the Science Technology Engineering and Math (STEM) Fields panel: discussion on women in science with undergrads at OSU
- 2005 National Science Foundation – Chemical Oceanography Review Panel
- 2004 Association of American Geographers Annual Meeting: Session 5505 Global Change and Geography of Individual Responsibility Panel, Philadelphia, PA
- 2003 Gender Equity Panel: panel discussion with undergraduates on women in academia
- 2002 Women in Leadership Series: panel discussion on women in science with undergrads

Scientific Meeting Session Chair/co-Chair:

- 2018 Session co-chair, Assisted Evolution, Reef Futures 2018, Key Largo, FL (10-14 Dec)
- 2016 Session co-chair and proceedings co-editor, 13th International Coral Reef Symposium: Session 36, Assessing and addressing the effects of multiple stressors on coral reefs towards developing effective management and policy responses.
- 2012 Session co-Chair and proceedings co-editor, 12th International Coral Reef Symposium: Coral Physiology session
- 2011 Session Chair, American Society of Limnology and Oceanography Meeting, Coral Session S36
- 2008 Session Chair, Ocean Sciences Meeting (AGU/ASLO), Coral Reefs Session 144
- 2006 Session Chair, Benthic Ecology Meeting, Reef Ecology Session
- 2004 Session co-chair and proceedings co-editor, 10th International Coral Reefs Symposium: Mini-Symposium on Corals as Recorders of Past Climate

Visiting Researcher:

- 1994 - 1996, 2006-2007, 2014-2017, Hawaii Institute of Marine Biology Kaneohe, Hawaii
- 2013 Musée Océanographique, Centre Scientifique de Monaco, Monaco
- 2009 - 2011 ICMYL-UNAM Field Station, Puerto Morelos, Mexico
- 2008 El Verde Field Station, University of Puerto Rico, Puerto Rico
- 2006 Palau Coral Reef Research Foundation, Koror, Palau
- 2001 - 2003 Palau International Coral Reef Center, Koror, Palau
- 2001 - 2006 Department of Fish and Wildlife, Saipan, CNMI
- 2004 Dept Natural and Env. Res., Guanica Dry Forest and Marine Preserve, Puerto Rico
- 2002 Smithsonian Tropical Research Institute, Panama City, Panama

- 2001 University of Guam, Guam
- 2001 Lawrence Livermore National Laboratory, Livermore, CA
- 1997 Rosenstiel School of Marine and Atmospheric Science. U. of Miami, Miami, FL

Research Assistant:

- 1995 University of Houston / Rice University, Houston, TX

Lab technician:

- 1991 - 1992 McGill University undergraduate research technician, Montreal, Quebec, Canada

INVITED SPEAKER:

- 2019 **Scripps Institute of Oceanography at UC-San Diego** (invited talk) *Coral Reefs and Climate Change: How Will They Survive?* (Jan)
- 2018 **University of Toronto – Mississauga** Center for Global Change Science Distinguished Lecture Series (Invited talk) *Coral Reefs and Climate Change: How Will They Survive?* (Jan)
Advance Faculty Research Lecture Series – Ohio State University *Journey of a Marine Scientist* (Feb)
Ohio Wesleyan University, Westerville OH “*Coral Reefs and Climate Change: Journey of a Marine Scientist*” (Mar)
Ohio State University, 4th Annual ASC Campus Campaign Talent Show, Invited TED-style talk on *Coral Reefs and Climate Change*. (March)
Current: Marine Biology at Ohio State, Undergraduate Club, “*Coral Reefs and Climate Change: Journey of a Marine Scientist*” (Apr)
American Chemical Society, Chemical Abstracts Services Chemists Celebrate Earth Week, Columbus, OH *Coral Reefs and Climate Change: How Will They Survive?* (Apr)
Sea Nags Scuba Club, Columbus OH *Coral Resistance and Resilience to Climate Change* (Sept)
Kent State University, Department of Geology *Coral Carbon Budgets in the Face of Climate Change* (Sept)
Hopkins Marine Laboratory of Stanford University, Monterey, CA *Coral Reefs and Climate Change: How Will They Survive?* (Nov)
- 2017 **Atlanta Reef Club**, Atlanta GA *Coral Reefs and Climate Change: How will they survive?* (July)
University of Akron, Department of Biology. *Corals and Climate Change* (March)
Ohio State University, Dept Ecology, Evolution and Organismal Biology – Intro Biology class special lecture. *Corals and Climate Change* (Feb)
- 2016 **Bennington College**, Department of Science and Math. *Corals and Climate Change* (Oct)
Coral Reef Task Force Webinar. *Corals Coping with Climate Change* (April)
13th International Coral Reef Symposium, Honolulu, HI. Invited Oral Presentation. *Combined responses of the coral microbiome and coral physiology to elevated temperature and pCO₂*. (July)
Sea Nags Scuba club, Columbus, OH. *Corals and Climate Change* (September)
Ohio State University, Dept Ecology, Evolution and Organismal Biology – Intro Biology class special lecture. *Corals and Climate Change* (Feb)
- 2015 **TEDx OSU** speaker. *Our Coral Connection* (14 Feb 2015) <http://tedx.osu.edu/> and <https://www.youtube.com/watch?v=l0CwOQQiVWc>
- 2014 **Ohio State University**, Welcome Commencement Speaker (25 August)
<https://www.facebook.com/osu/photos/a.10153110792798858.1073741863.6711658857/10153110798668858/?type=3&theater>
- 2013 **Centre Scientifique de Monaco**. Monaco, Monaco. *Global Warming and Ocean Acidification:*

How will corals manage?

Mote Marine Lab, Ocean Acidification Workshop. Sarasota, FL. *Coral Resilience to conditions in 2100?*

- 2012 **Bowling Green State University**, SETGO program, Bowling Green, OH. *Global Warming and Ocean Acidification: How will corals manage?*
Otterbein College, Department of Biology and Earth Science, Westerville, OH. *Global Warming and Ocean Acidification: How will corals manage?*
The Ohio State University, ASC Renaissance Rediscovery Alumni Program, Columbus, OH. *Global Warming and Ocean Acidification: How will corals manage?*
The Ohio State University, School of Earth Science, Columbus, OH. *Global Warming and Ocean Acidification: How will corals manage?*
University of Georgia, Department of Marine Science, Athens, GA. *Global Warming and Ocean Acidification: How will corals manage?*
Northeastern University, School of Marine Science, Boston, MA. *Global Warming and Ocean Acidification: How will corals manage?*
Scubafest, Columbus, OH. *Coral Reef Discovery and Conservation*
- 2011 **University of Michigan**, Smith Lecturer, Department of Geological Sciences, Ann Arbor, MI (June). *Paleoceanography of the Western Tropical Pacific Warm Pool*
Université de Québec a Montréal, GEOTOP, Montreal, PQ, Canada. *Paleoceanography of the Western Tropical Pacific Warm Pool*
University of Delaware, College of Earth, Ocean, and the Environment, Lewes, DE. *Coral bleaching: Resilience and Alternative Strategies: A better understanding of coral bleaching using stable carbon isotopes ($\delta^{13}C$)*
Ohio State University, School of Environment and Natural Resources, Columbus, OH. *Coral bleaching: Resilience and Alternative Strategies*
- 2010 **ICMyL-UNAM** Field Station, Faculty of Marine Sciences, Puerto Morelos, QR Mexico. *Carbon and Coral bleaching: Resilience and Alternative Strategies How stable isotopes shed light on physiological processes*
Ohio University, Department of Geological Sciences, Athens, OH. *Coral bleaching: Resilience and Alternative Strategies A better understanding of coral bleaching using stable carbon isotopes ($\delta^{13}C$)*
Ohio State University, School of Earth Sciences mini-symposium, Columbus, OH. *The State of Coral Reefs.*
- 2008 **McGill University**, Department of Earth and Planetary Sciences, Montreal, PQ, Canada. *Stable Carbon Isotopes ($\delta^{13}C$) in Corals and Sclerosponges: Implications for Paleoceanography and Biology*
USGS and University of South Florida joint seminar, St. Petersburg, FL. *Stable Carbon Isotopes ($\delta^{13}C$) in Corals and Sclerosponges: Implications for Paleoceanography and Biology*
- 2007 **Harvard University**, Earth History and Paleobiology Series, Boston, MA. *Stable Carbon Isotopes ($\delta^{13}C$) in Corals and Sclerosponges: Implications for Paleoceanography and Biology*
College of Wooster, Department of Geology, Wooster, OH. *Stable Carbon Isotopes ($\delta^{13}C$) in Corals and Sclerosponges: Implications for Paleoceanography and Biology*
University of Hawaii, Hawaii Institute of Marine Biology, Kaneohe Bay, HI. *Corals and sclerosponges as geochemical recorders of past climate change*
- 2006 **SEMP** Quaternary Reefs and Platforms: invited speaker and panelist, American Association of Petroleum Geologists Conference, Houston, TX. *Corals and sclerosponges as geochemical*

recorders of past climate change

Ohio State University, Environmental Science Graduate Program, Columbus, OH.

Paleoceanography Using Stable Carbon Isotopes ($\delta^{13}\text{C}$) in Corals and Sclerosponges

Bowling Green State University, Department of Biological Sciences, Bowling Green, OH.

Coral bleaching: Resilience and Alternative Strategies

Ohio State University, Dept Ecology, Evolution, and Organismal Biology (EEOB), Columbus, OH. *Coral bleaching: Resilience and Alternative Strategies*

Ohio State University, School of Earth Sciences Brown Bag, Columbus, OH. *Coral bleaching Alternative Strategies, Resilience, and Isotopic Signatures*

University of Hawaii, School of Ocean and Earth Science (SOEST), Honolulu, HI. *Coral bleaching: Resilience and Alternative Strategies*

University of Hawaii, Hawaii Institute of Marine Biology, Kaneohe Bay, HI. *Corals and sclerosponges as geochemical recorders of past climate change*

University of Cincinnati, Department of Biology, Cincinnati, OH. *Heterotrophic Plasticity, Energy Reserves, and Resilience in Bleached Corals*

2005 **State University of New York - Albany**, Department of Earth and Atmospheric Sciences, Albany, NY. *Paleoceanography Using Stable Carbon Isotopes ($\delta^{13}\text{C}$) in Corals and Sclerosponges*

2004 **Pennsylvania State University**, Department of Geosciences, University Park, PA. *Paleoceanography Using Stable Carbon Isotopes ($\delta^{13}\text{C}$) in Corals and Sclerosponges*

Washington Geological Society, Washington, DC. *Paleoceanography Using Stable Carbon Isotopes ($\delta^{13}\text{C}$) in Corals and Sclerosponges*

Goldschmidt Plenary Speaker, Copenhagen, Denmark. *Stable Carbon Isotopes ($\delta^{13}\text{C}$) in Corals: An Experimental Approach and Applications for Paleoceanography*

Ohio State University, Department of Geological Sciences, Columbus, OH. *Paleoclimatology and Paleoceanography Using Carbon Isotopes in Corals and Sclerosponges*

University of Texas Marine Science Institute Schweppe Seminar speaker, Port Aransas, TX. *Carbon Isotopes in Corals and Sclerosponges: Applications for Paleoclimate Reconstruction*

University of Texas Marine Science Institute Schweppe Seminar Public Evening Lecture, Port Aransas, TX. *The Effect of Human Impacts and Coral Bleaching on Coral Reef Ecosystems: Implications for Coral Reef Conservation*

Association of American Geographers Annual Meeting, Session 5505 Global Change and Geography of Individual Responsibility Panel, Philadelphia, PA. *Individual Responsibility and Global Climate Change.*

2003 **Rutgers University**, Institute of Marine Sciences, New Brunswick, NJ. *Carbon in corals and sclerosponges*

University of Maryland, Department of Geology, College Park, MD. *Carbon in corals and sclerosponges.*

Columbia University, Lamont-Doherty Earth Observatory, New York, NY. *Carbon in corals and sclerosponges.*

Northwestern University, Department of Geology, Chicago, IL. *Carbon in corals and sclerosponges*

CREWS workshop, CMRC/LSI Workshop, Bahamas. *Effect of bleaching on the coral host total lipid content, lipid class composition, and skeletal stable isotopic composition*

University of Pennsylvania, Graduate School of Education, Philadelphia, PA. *Global Climate and ENSO.*

- University of Pennsylvania**, Institute for Environmental Studies, Philadelphia, PA. *Coral Reefs: Conservation and Case Studies*
- 2002 **University of Pennsylvania**, Department of Biology, Philadelphia, PA. *Coral Bleaching and Resilience*
- University of Pennsylvania**, Department of Earth & Environmental Science, Philadelphia, PA. *Radiocarbon record in a Fanning Island coral: Inter-decadal variability in waters upwelling in the central equatorial Pacific from 1922-1956.*
- University of Pennsylvania**, Institute for Environmental Studies, Philadelphia, PA. *Coral Reefs: Conservation and Case Studies*
- 2001 **University of Pennsylvania**, Dept. Earth & Environmental Science. Philadelphia, PA. *Coral Bleaching and Resilience.*
- University of Pennsylvania**, Institute for Environmental Studies. *Coral Reefs: Conservation and Case Studies*
- University of Pennsylvania**, Goldberg House. *Coral Reefs: Human Impacts and Conservation*
- Temple University**, Department of Geology, Philadelphia, PA. *Radiocarbon record in a Fanning Island coral: Inter-decadal variability in waters upwelling in the central equatorial Pacific from 1922-1956*
- 2000 **Florida International University**, Department Biological Sciences Seminar, West Miami, FL. *Interpretation of stable carbon isotopes in reef coral skeletons and application for paleoclimate reconstruction.*
- University of Washington**, Quaternary Research Center Seminar, Seattle, WA. *Interpretation of stable carbon isotopes in reef coral skeletons and application for paleoclimate reconstruction.*
- University of Pennsylvania**, Department Earth and Environmental Science, Philadelphia, PA. *Interpretation of stable carbon isotopes in reef coral skeletons and application for paleoclimate reconstruction.*
- American University**, Department of Biology Seminar, Washington, DC. *Interpretation of stable carbon isotopes in reef coral skeletons and application for paleoclimate reconstruction.*
- 1999 **Columbia University**, Biosphere 2, Tuscon, AZ. *Interpretation of stable carbon isotopes in reef coral skeletons and application for paleoclimate reconstruction.*
- University of California – Irvine**, Department of Ecology & Evolutionary Biology, Irvine, CA. *Coral Reefs: Conservation and Global Change*
- 1998 **University of California – Irvine**, Department of Earth System Science, Irvine, CA. *Coral Reefs: Conservation and Global Change*
- 1996 **Shamenade University**, Department of Biology, Honolulu, HI. *Tools for Paleoclimate Reconstruction.*

PUBLISHED ABSTRACTS (*= my student advisees, † = other students):

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- 2018 (217) Shantz A, Baker A, Baums I, Davies S, **Grottoli A**, Kenkel C, Kitchen S, Kuffner I, LaJeunesse T, Matz M, Miller M, Parkinson J, Incorporating phenotypic traits in coral restoration. Reef Futures 2018, Key Largo, FL, oral presentation: CRC90113

- 2018 (216) **Grottoli** AG, Tchernov D, Winters G., Physiological and Biogeochemical Responses of Super-Corals to Thermal Stress from the Northern Gulf of Aqaba, Red Sea , Reef Futures 2018, Key Largo, FL, oral presentation: CRC8321.
- 2018 (215) Price JT, McLachlan RH, Jury CP, Toonen RJ, Wilkins MJ, **Grottoli** AG, Assessment of the coral microbiome and the underlying coral physiology across a natural range of natural temperature and $p\text{CO}_2$ environments in Hawaii, Reef Futures 2018, Key Largo, FL, oral presentation: CRC57106.
- 2018 (214) Smith A, Price JT, McLachlan RH, Jury CP, Toonen R, **Grottoli** AG, Natural variability in the contribution of heterotrophic carbon to tissues of Hawaiian corals, Reef Futures 2018, Key Largo, FL, poster: CRC13177.
- 2018 (213) Dobson KL, Levas S, Schoepf V, Warner ME, Cai WJ, Yuan X, Hoadley K, Matsui Y, Melman TF, **Grottoli** AG, Interactive effects of elevated temperature, $p\text{CO}_2$, and moderate nutrients on the physiology and biogeochemistry of two species of Indo-Pacific coral, Reef Futures 2018, Key Largo, FL, oral presentation: CRC90107
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- 2018 (211) McLachlan RH, Price JT, Jury CP, Dobson KL, Toonen R, **Grottoli** AG, Phenotypic Variation in Hawaiian Corals Provides Insight into Coral Selection for Restoration, Reef Futures 2018, Key Largo, FL, oral presentation: CRC26179.
- 2018 (210) Kenkel C, Baker A, Baums I, Davies S, **Grottoli** A, Kitchen S, Kuffner I, LaJeunesse T, Matz M, Miller M, Parkinson J, Shantz A, Population genetic considerations for coral restoration, Reef Futures 2018, Key Largo, FL, oral presentation: CRC21193.
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- 2018 (208) Parkinson J, Baker A, Baums I, Davies S, **Grottoli** A, Kenkel C, Kitchen S, Kuffner I, LaJeunesse T, Matz M, Miller M, Shantz A, Molecular Tools For Coral Reef Restoration: Beyond Biomarker Discovery, Reef Futures 2018, Key Largo, FL, oral presentation: CRC1349
- 2018 (207) Baums IB, Baker AC, Davies SW, **Grottoli** AG, Kenkel CD, Kitchen SA, Parkinson JE, Kuffner IB, LaJeunesse TC, Matz MV, Miller MW, Shantz AA. How to maximize future adaptive potential of restored coral populations, Reef Futures 2018, Key Largo, FL, oral presentation: CRC4141.
- 2018 (206) **Grottoli** AG, Coral reefs and climate change: we are running out of time. Metaphors of Time: an interdisciplinary conversation across the arts, humanities, and sciences, Ohio State University, Columbus, OH
- 2017 (105) †Jury CP, Newell M, *Dobson KL, *McLachlan RH, Marko P, **Grottoli** AG, Toonen RJ. Local adaptation drives coral resilience under ocean acidification and climate change. ASLO 2017 Aquatic Sciences Meeting. Honolulu, HI. Abstract #30008
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- 2016 (103) LaVigne M, Cobb KM, DeLong K, Freiburger M, **Grottoli** AG, Hill TM, Miller H, Nurhati I, Richey J, Serrato Marks G, Sherrell RM. Using coral Ba/Ca records to investigate seasonal to

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- 2016 (100) *McLachlan RH, **Grottoli AG**, †Jury CP, *Dobson K, Toonen RJ. Survey of Hawaiian coral physiology across a natural range of temperature and pH gradients. 13th International Coral Reef Symposium, Honolulu, HI, 19-24 June, Abstract ID:29770 (poster).
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- 2014 (92) LaVigne M, *Matthews KA, **Grottoli AG**, *Palardy J, Sherrell M. Multi-colony calibrations of coral Ba/Ca with a contemporaneous *in situ* seawater barium record. American Geophysical Union meeting, San Francisco, CA
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- 2014 (90) *Baumann J, **Grottoli AG**, Matsui Y, *Hughes A. Acquisition and allocation of carbon to lipids of bleached and healthy Hawaiian corals. Benthic Ecology Meeting, Jacksonville Florida
- 2013 (89) †Tanaka Y, **Grottoli AG**, Matsui Y, Suzuki A, Sakai K. Estimation of internal and external

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- 2012 (81) *Baumann J, **Grottoli** AG, *Levas S, Matsui Y, *Hughes A. Acquisition and Allocation of Carbon to Lipids of Bleached and Non-bleached Hawaiian Corals. 12th International Coral Reef Symposium (ICRS), Cairns, Australia.
- 2012 (80) †Hoadley K, †Pettay DT, Warner ME, **Grottoli** AG, Melman T, *Baumann J, Matsui Y, Cai WJ, Hu X, Wang Y, Xu H, Li O. The impact of elevated CO_2 and temperature on the photosynthetic physiology and symbiosis stability of four Pacific reef-building corals. 12th International Coral Reef Symposium (ICRS), Cairns, Australia.
- 2012 (79) Warner ME, **Grottoli** AG, †Aschaffenburg MD, †McGinley N, *Levas S, *Schoepf V. The impact of repetitive bleaching on the photobiology and balance of *Symbiodinium* distributions in three Caribbean corals. 12th International Coral Reef Symposium (ICRS), Cairns, Australia.
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- 2011 (77) Bauer JE, Guo L, Perkey DW, Raymond P, Bianchi TS, **Grottoli** AG, Matsui Y. Divergent Radiocarbon Age Distributions of Carbon Pools in a Major Temperate River: Implications for Sources, Reactivity, and Land-Ocean Exchanges. American Geophysical Union (AGU) Meeting, San Francisco, CA Abstract number B32C-05.
- 2011 (76) *Moyer R, **Grottoli** AG, Bauer JE. Carbon isotope (^{13}C and ^{14}C) biogeochemistry of small

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- 2011 (75) **Grottoli** AG, Warner ME, *Levas SJ, †Aschaffenberg MD, Schoepf V, †McGinley MP. The effect of repeat bleaching on coral species-algal symbiont type combinations and resilience. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, San Juan, Puerto Rico.
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- 2011 (73) *Schoepf V, *Levas SJ, Warner ME, **Grottoli** AG. The effect of repeat bleaching on energy reserves of three Caribbean coral species. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, San Juan, Puerto Rico.
- 2011 (72) †McGinley MP, †Aschaffenburg MD, **Grottoli** AG, Levas SJ, Schoepf V, Warner ME. Temporal dynamics of *Symbiodinium* populations in Caribbean corals following a repetitive bleaching experiment. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, San Juan, Puerto Rico.
- 2011 (71) *Huey TM, **Grottoli** AG, Matsui Y. Land-use impact on the character and age of carbon in small temperate streams. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, San Juan, Puerto Rico.
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- 2011 (69) *Baumann J, **Grottoli** AG, *Levas S, *Schoepf V, Warner M. The effects of repeat bleaching on P/R and feeding rates of three species of Caribbean coral. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, San Juan, Puerto Rico.
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- 2004 (26) *Matthews K, **Grottoli** AG, McDonough WF, *Palardy JE. Natural variability of environmental proxies in corals from an upwelling region. American Geophysical Union Fall Meeting, San Francisco, CA PP23B-1429
- 2004 (25) **Grottoli** AG. Stable carbon isotopes ($\delta^{13}\text{C}$) in coral skeletons: experimental approach and applications for paleoceanography. American Geophysical Union Fall Meeting, San Francisco, CA, B14B-07
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- 2004 (22) **Grottoli** AG, Gibb O. Stable carbon isotope records in a Palau sclerosponge. 10th International Coral Reef Symposium, June 28-July 2 Okinawa, Japan
- 2004 (21) *Matthews KA, **Grottoli** AG, McDonough WF, *Palardy JE. The effect of upwelling, species and depth on the natural variability of cadmium in three species of Panamanian corals. 10th International Coral Reef Symposium, June 28-July 2 Okinawa, Japan
- 2004 (20) **Grottoli** AG. Stable carbon isotopes ($\delta^{13}\text{C}$) in corals: An experimental approach and applications for paleoceanography. Goldschmidt Conference, Copenhagen, Denmark. Abstract # 0.0.12. Geochimica et Cosmochimica Acta 68(11):A22 supp
- 2004 (19) **Grottoli** AG, Gibb O. Stable carbon and oxygen isotope records in a Palau sclerosponge. Goldschmidt Conference, Copenhagen, Denmark. Abstract # 4.63.25, Geochimica et Cosmochimica Acta 68(11): A474 supp
- 2004 (18) **Grottoli** AG. River discharge and coral reefs: effects of terrestrially derived sediments on

- corals in the Guanica Preserve, Puerto Rico over the past century. Woodrow Wilson National Fellowship Retreat. Princeton, New NJ, Oct 2004.
- 2004 (17) Palardy JE, **Grottoli AG**, *Matthews K. The effect of morphology, polyp size and depth on feeding in three species of Panamanian corals. The 33rd Annual Marine Benthic Ecology Meeting, Mobile Alabama. March 26-28. Abstract 10362
- 2004 (16) **Grottoli AG**, *Rodrigues LJ, *Juarez C. Effect of bleaching on the coral host total lipid content, lipid class composition, and skeletal stable isotopic composition. The 1st Annual Combined Effects Think Tank to Support CREWS Modeling. March 2003, LSI Bahamas.
- 2003 (15) †Hönisch B, Hemming NG, **Grottoli AG**, Amat A, Hanson GN, Bijma J. The effect of light, respiration and $p\text{CO}_2$ on $\delta^{11}\text{B}$ in coral skeletons: results from culture and field experiments. European Geological Society – American Geophysical Union Joint Assembly, Nice, France.
- 2003 (14) **Grottoli AG**, Gibb O, Wellington GM. Pre-treatment effects on coral skeletal $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$. American Geophysical Union Fall Meeting, San Francisco. Abs. PP11A-0198
- 2002 (13) **Grottoli AG**. Stable carbon isotope record in a Palau Sclerosponge. American Geophysical Union Fall Meeting, San Francisco. PP51A-0287
- 2002 (12) *Rodrigues LJ, **Grottoli AG**, *Juarez C. Effect of bleaching on lipid biomass in two Hawaiian coral species. American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting 2002, Honolulu Abs. OS21F-124
- 2002 (11) **Grottoli AG**, Gille ST, Druffel ERM, Dunbar RB. Radiocarbon in a Fanning Island coral: inter-decadal variability in waters upwelling in the central equatorial Pacific from 1922 - 1955. American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting 2002, Honolulu.
- 2000 (10) **Grottoli AG**, Druffel ERM, Gille ST, Dunbar RB. Identification of seasonal-to-decadal timescale variations in the zonal currents of the central equatorial Pacific prior to 1955 using $\Delta^{14}\text{C}$ in coral. American Geophysical Union Fall Meeting, San Francisco. Abs. OS22H-02
- 2000 (9) **Grottoli AG**, Druffel ERM, Gille ST, Dunbar RB. Identification of seasonal to decadal timescale variations in the zonal currents of the central equatorial Pacific prior to 1955 using $\Delta^{14}\text{C}$ in coral. 9th International Coral Reef Symposium, Bali, Indonesia. Abs. A17.16
- 2000 (8) **Grottoli AG**. Stable carbon isotopes in coral skeletons. American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, San Antonio, TX Abs. OS21N-04
- 2000 (7) *Juarez C, **Grottoli AG**. Lipid concentrations in bleached and non-bleached Hawaiian corals. UC-Irvine Undergraduate Research Forum.
- 1999 (6) **Grottoli AG**. Interpretation of stable carbon isotopes in reef coral skeletons and applications for paleoclimate reconstruction. Dissertation Initiative Advancement of Limnology and Oceanography (DIALOG III) p.56
- 1999 (5) **Grottoli AG**. Interpretation of stable carbon isotopes in reef coral skeletons and applications for paleoclimate reconstruction. Dissertation Symposium on Chemical Oceanography (DISCO XV), Honolulu, HI p.6
- 1998 (4) **Grottoli AG**. Coral skeletal $\delta^{13}\text{C}$ as a paleo-tracer of solar irradiance levels and zooplankton concentrations: an experimental approach. American Geophysical Union Fall Meeting, San Francisco. Abstract OS41A-10
- 1997 (3) **Grottoli**-Everett AG. Effect of irradiance and heterotrophy on the stable carbon isotopic ($\delta^{13}\text{C}$) composition of scleractinian corals. United States Environmental Protection Agency Science to Achieve Results (STAR) Graduate Fellowship Program: Technical Conference, June 16-17, Research Triangle Park, North Carolina. EPA/600/R-97/049, p70

- 1996 (2) **Grottoli**-Everett AG, Wellington GM. Effect of light and zooplankton on skeletal $\delta^{13}\text{C}$ in the eastern Pacific corals *Pavona clavus* and *P. gigantea*. 8th International Coral Reef Symposium, Panama. Abstract p. 78
- 1996 (1) **Grottoli**-Everett AG. The effect of bleaching on lipid levels in the coral *Montipora verrucosa*. American Society of Zoologists, St. Louis, MO. Abstract in: American Zoologist 34(5):70a

MEETINGS ATTENDED:

8th -13th International Coral Reef Symposium 1996, 2000, 2004, 2008, 2012, 2016
American Association for the Advancement of Science Meeting 2018
Metaphors of Time 2018
Ocean Acidification PI Meeting (NSF-OCB) 2013
The Ocean in a High-CO₂ World 3rd International Symposium (2012)
Ocean Sciences Meeting (ASLO/AGU) 2000, 2002, 2006, 2008, 2010
American Geophysical Union Fall Meeting (AGU) 1999, 2001 – 2005, 2011
American Society of Limnology and Oceanography (ASLO) Meeting 2007, 2009, 2011
Goldschmidt Conference 2004
Benthic Ecology Meeting 2005, 2006
Dissertation Symposium on Chemical Oceanography (DISCO XV) 1999
Environmental Protection Agency (EPA) Technical Conference 1997
American Society of Zoologists Meeting 1994

MEMBERSHIPS:

International Society for Reef Studies
American Society of Limnology and Oceanography
American Association for the Advancement of Science
Geochemical Society
American Geophysical Union
The Ohio Academy of Sciences
Sigma Xi

PUBLICITY and MEDIA OUTREACH:

- 2002 Interviewed and quoted in “Female Profs Talk About Their Careers” Daily Pennsylvanian (Feb)
- 2003 Interviewed and quoted in “Science Lacking in Female Faculty” Daily Pennsylvanian (Oct 29)
- 2003 Interviewed and quoted in “Female Faculty Panel Addresses Gender Equity Issues” Daily Pennsylvanian
- 2005 Interviewed and quoted in “Carbon Counter: The Undersea/Oversea World of Andrea Grottoli” PENN Arts and Science Magazine (Winter)
- 2006 **Grottoli et al (2006) Nature** paper media coverage:
- Radio Interviews
 - NPR interview (Science Fridays Talk of the Nation) (28 April):
www.npr.org/templates/story/story.php?storyId=5369310
 - Quirks and Quarks radio show interview (CBC Radio Canada)
www.cbc.ca/quirks/media/2005-2006/mp3/qq-2006-05-06c.mp3
 - Earth Watch Radio: www.ewradio.org/
 - Selected Press Interviews and Other Press Coverage
 - Science (AAAS) online: sciencenow.sciencemag.org/cgi/content/full/2006/426/5

- Discovery Channel News: dsc.discovery.com/news/briefs/20060501/coral_pla.html
 Christian Science Monitor: www.csmonitor.com/2006/0427/p16s01-stss.html
 Nature News online: www.nature.com/news
 Scientific American: www.sciam.com/article.cfm?articleID=0006FE01-D35E-144F-935E83414B7F0000&sc=I100322
 The Daily Grist: www.grist.org/news/daily/2006/04/27/3/index.html
 News Wise.com: newswise.com/articles/view/519896/
 The Washington Post
 Columbus Dispatch: www.dispatch.com/science/science.php?story=dispatch/2006/05/02/20060502-B5-05.html
 Belgian popular-scientific monthly Eos-magazine: www.eos.be
 Global Water News Watch: www.sahra.arizona.edu/cgi-bin/newsclips/newsclip_view.pl?mode=newsclip_view&ID=13342
 OSU Research News: researchnews.osu.edu/archive/corlblch.htm
 OSU Today and front page of main the OSU website
 College of MAPS News, Ohio State University
 Dive Training (Magazine), quoted in “A Whiter Shade of Corals” by Greg Laslo. September 2007, vol 17, Issue 9, page 22.
- 2008 Media coverage of research presented at the Ocean Sciences meeting
 Press Conference held Tuesday, March 4 at 10am
 Science Daily: www.sciencedaily.com/releases/2008/03/080304101436.htm
 Physorg.com: www.physorg.com/news123850507.html
 Newswise.com: www.newswise.com/articles/view/538254/?sc=rssn
- 2008 **LaVigne et al.** (2008) Geophysical Research Letters media coverage:
 AGU Editor’s Choice highlights: www.agu.org/journals/scripts/highlight.php?pid=2007GL031926
 Science Magazine Editor’s Choice vol 319:1590-1591: www.sciencemag.org
- 2008 National Science Foundation - Multimedia Communications interview for 14-part video series on “To What Degree: What Science Tells us About Climate Change” produced for the Research Channel. www.researchchannel.com
- 2008 Interviewed and quoted in: “Mission: implausible: the desperate plight of coral reefs has led to some extraordinary rescue plans. Mark Schrope weighs them up.” By Mark Schrope. *New Scientist* 200.2678 (Oct 18): p28(4)
- 2010 Research featured in Global Perspective (OSU Office of International Affairs publication) at <http://oia.osu.edu/global-perspectives/1638-global-perspectives-spring-2010-newsletter-.html#coral>
- 2010 Field research experience for undergrads featured by Office of International Affairs – Get a Passport campaign. Posters were displayed on campus buses and at other locations.
- 2010 Interviewed and quoted for Portuguese e-news (PÚBLICO www.publico.pt) about coral bleaching research in Mexico by Helena Gerales and publication in online and print newspaper in Lisbon, Portugal. http://ecosfera.publico.pt/biodiversidade/Details/nas-caraibas-existem-corais-que-conseguem-sobreviver-ao-calor_1445618
- 2010 **Williams & Grottoli** (2010) Geophysical Research Letters media coverage:
 Radio interview with Australian Broadcasting Company www.radioaustralia.net.au/pacbeat/stories/201010/s3037923.htm
 Nature highlights (2010, 467:886): <http://www.nature.com/nature/journal/v467/n7318/full/467886a.html>
 AGU press release Oct 2010 No. 10-32, http://www.agu.org/news/press/pr_archives/2010/2010-32.shtml
 Msnbc: http://www.msnbc.msn.com/id/39638641/ns/technology_and_science-science/
 World News: http://article.wn.com/view/2010/10/12/Coral_records_show_ocean_thermocline_rise_with_global_warmin/
 USA today: <http://content.usatoday.com/communities/sciencefair/post/2010/10/coral-climate-change/1>
 Science daily: <http://www.sciencedaily.com/releases/2010/10/101011220123.htm>
 Eurekalert: http://www.eurekalert.org/pub_releases/2010-10/osu-crs101210.php
 Pollution online: <http://www.pollutiononline.com/article.mvc/Coral-Records-Show-Ocean-Thermocline-Rise-0001?VNETCOOKIE=NO>

x-journals: <http://x-journals.com/2010/coral-records-show-ocean-thermocline-rise-with-global-warming/>

Yahoo: http://news.yahoo.com/s/livescience/20101012/sc_livescience/seachangecoralsrevealclimatechangesimpactonocean

Redorbit: http://www.redorbit.com/news/science/1930637/coral_records_show_ocean_thermocline_rise_with_global_warming/index.html?source=r_science

Blog post: www.shamskm.com/blogs

Climate World Wide after 2009: <http://www.cwwa2009.com/climate-change/coral-records-show-ocean-thermocline-rise-with-global-warming/>

Summit County Voice: <http://summitcountyvoice.com/2010/10/13/global-warming-pacific-ocean-thermocline-shifting/>

Laboratory Equipment: <http://www.laboratoryequipment.com/News-global-warming-causes-ocean-temperature-change-101310.aspx?xmlmenuid=51>

Our Amazing Planet: <http://www.ouramazingplanet.com/tropical-coral-ocean-circulation-101012-0630/>

Tree Hugger: <http://www.treehugger.com/files/2010/10/corals-reveal-changes-in-ocean-circulation-prove-climate-modelers-correct.php>

Ocean Leadership: <http://www.oceanleadership.org/2010/coral-records-show-ocean-thermocline-rise-with-global-warming/>

OSU: <http://oncampus.osu.edu/osutoday/102010/10212010.php>

2010 Press release for NSF-funded OA research (Oct)

www.nsf.gov/news/news_summ.jsp?cntn_id=117823&org=NSF&from=news

2011 **Edge of Light**: OSU Video Feature of Grottoli coral research

<https://www.osu.edu/features/2011/edgeoflight.html>

2011 Interviewed and featured in “An Ocean of Trouble” article by Dylan Tussel in the Columbus Dispatch <http://www.dispatch.com/content/stories/science/2011/08/14/an-ocean-of-trouble.html>

2011 Interviewed by American Reef for Ocean Acidification and Global Warming Coral Project research (full video available)

Part I http://www.fishnetwork.tv/AdvancedAquarist/AdvancedAquarist/AmericanReef_-_Advanced_Aquarists_Edition/Entries/2011/8/15_A_Day_with_Sanjay_-_Part_II_2.html

Part II http://www.fishnetwork.tv/AdvancedAquarist/AdvancedAquarist/AmericanReef_-_Advanced_Aquarists_Edition/Entries/2011/9/20_Part_II_-_Can_Coral_Reefs_Survive_Ocean_Acidification_and_Global_Warming_2.html

2009 – present Micro-blog of ongoing coral research at www.twitter.com/CoralResearch

2014 EPA STAR interview (Jan) “Fellow Success Story” <http://www.scgcorp.com/fellowship/>

2014 Interview with Mary McLaughlin, assistant to Franklin County Commissioner Paula Brooks on the Presidential Task Force on Climate Preparedness and Resilience, about the impact of ocean acidification and global change on Ohio (9 April)

2014 Interview with high school student Zain about ocean acidification and global change (4 April)

2014 **Grottoli et al. (2014)** Global Change Biology media coverage:

OSU Press release <http://news.osu.edu/news/2014/07/09/corals-adapting-to-climate-change/>

NSF Science 360 Breaking news cover story

<http://news.science360.gov/obj/story/b1df6bcb-c9ec-4a67-aa20-e493c8fe3e41/corals-adapting-climate-change-survival-fattest-flexible>

Science News SciGuru.com

<http://www.sciguru.com/newsitem/17475/corals-adapting-climate-change-it-s-survival-fattest-and-most-flexible>

Smithsonian.com www.smithsonianmag.com/science-nature/fat-corals-fare-best-climate-changes-180951986/

Ensia article <http://ensia.com/features/how-we-can-save-coral-reefs-and-why-we-should-want-to/>

2014 Grottoli undergraduate student Casey Saup featured in OSU College of Arts and Sciences current student Research Profile <https://artsandsciences.osu.edu/current-students/beyond-the-classroom/undergrad-research/profiles2>

2014 Interview with high school student Leah Solomon for feature in the Westfall High School newspaper The Echo 50(3):5 <http://www.westfallschools.com/Downloads/November%20Publication.pdf>.

2015 Interviewed and featured in “Ohio State, U. Hawaii Scientists Test Ability Of Corals To Adapt To Acidification” by Daniel Kelly, Environmental Monitor (Sept). <http://www.fondriest.com/news/ohio-state-hawaii-scientists-test-ability-corals-adapt-acidification.htm>

2015 **TEDx OSU invited speaker (14 Feb) Our Coral Connection**, <http://tedx.osu.edu/2015-speakers/>

2015 **Schoepf et al. (2015)** Proceedings of the Royal Society B media coverage:

OSU press release <https://news.osu.edu/news/2015/11/17/fatcoralfit/>

UWA press release <http://www.abc.net.au/news/2015-11-18/annual-bleaching-could-have-coral-reefs-in-hot-water/6948254>

U Delaware press release <http://www.udel.edu/udaily/2016/nov/coral-fat-bleaching-111815.html>

Press release point <http://www.pressreleasepoint.com/research-uncovers-how-some-coral-can-survive-annual-bleaching-events>

Science World Report <http://www.scienceworldreport.com/articles/33224/20151118/coral-bleaching-survived-fatter-corals-face-climate-change.htm>

Practical Fishkeeping <http://www.practicalfishkeeping.co.uk/content.php?sid=6916>

Gulf News <http://gulfnews.com/weekend-review/science-technology/creating-coral-that-can-survive-climate-change-1.1622027>

Customs Today <http://www.customstoday.com.pk/annual-bleaching-could-threaten-some-species-of-tropical-coral-study/>

International Business Times <http://www.ibtimes.com.au/corals-high-levels-fat-can-withstand-bleaching-events-study-1484083>

Science Codex http://www.sciencecodex.com/fat_makes_coral_fit_to_cope_with_climate_change-169997

Environmental Monitor <http://www.fondriest.com/news/coral-with-higher-fat-reserves-more-likely-to-survive-bleaching.htm>

ABC The Drum <http://www.abc.net.au/news/2015-11-18/annual-bleaching-could-have-coral-reefs-in-hot-water/6948254>

EurekaAlert! http://www.eurekaalert.org/pub_releases/2015-11/osu-fmc111315.php

ClimateWire <http://www.eenews.net/climatewire/2015/11/19/stories/1060028287>

ABC Radio Geraldton, Australia 17-11-15 <http://www.abc.net.au/news/2015-11-19/fat-coral-have-better-survival-chance-researchers-say/6956662?site=wheatbelt>

RTR FM 92.1 Perth, Australia, The Mag Show 23-11-15 http://rtrfm.com.au/shows/mag?an_page=2015-11-23

- 2015 “As the Earth enters its third mass bleaching event, will corals survive?” by Andrea Grottoli (20 Nov 2015) The Conversation <https://theconversation.com/as-the-earth-enters-its-third-mass-bleaching-event-will-corals-survive-50740>

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- 2015 Interviewed and quoted in “Warm El Nino Water Killing Pacific Corals” by Eric Niller (2 Dec 2015), Discovery News <http://news.discovery.com/earth/weather-extreme-events/warm-el-nino-water-killing-pacific-corals-151202.htm>

- 2016 Interviewed and featured in “Resilient Reefs” by D Kelly Environmental Monitor. Winter 2016, p.47-48.

- 2016 Interviewed and quoted in “Corals Experiencing Record-long Bleaching from El Nino” by Pola Lem in ClimateWire (25 Feb 2016) <http://www.eenews.net/climatewire/2016/02/25/stories/1060032975>

- 2016 “Corals and Ocean Acidification” by Karen B. Roberts, Press release for Nature Communications paper (Cai et al 2016) OA-ICC (IAEA)

UD press release <http://www.udel.edu/udaily/2016/apr/coral-ph-ocean-acidification-040416.html>

- 2016 Interviewed and quoted in “Coral researchers look for ways to connect science” by Pola Lem, in ClimateWire <http://www.eenews.net/climatewire/stories/1060035232> (7 April)

- 2016 Interviewed and quoted in “Shocking Before-and-After Photos of the World’s Coral Bleaching Catastrophe” by Claudia Geib in Atlas Obscura (19 April) <http://www.atlasobscura.com/articles/shocking-before-and-after-photos-of-the-worlds-coral-bleaching-catastrophe>

- 2016 Interviewed and quoted in “What we can learn from watching video of coral lose its color” by Joseph Dussault, Christian Science Monitor (18 Aug) <http://www.csmonitor.com/Environment/2016/0818/What-we-can-learn-from-watching-video-of-coral-lose-its-color>

- 2016 Interviewed on Press Play with Madeleine Brand (KCRW in Los Angeles, CA) about “Is the Great Barrier Reef really dead?” (16 Oct 2016) <http://www.kcrw.com/news-culture/shows/press-play-with-madeleine-brand/mayor-garcetti-on-the-future-of-la-development> and scroll down to RIP Great Barrier Reef

- 2016 Interviewed by Eric Niller and quoted in “Climate Scientists Fear Trump Budget Cuts and Wonder What He Really Believes” Seeker 7 Dec 2016 <http://www.seeker.com/climate-scientists-fear-trump-budget-cuts-and-wonder-what-he-really-be-2134130758.html>

- 2017 Interviewed by Eva Botkin-Kowacki and quoted in “From coral sperm banks to climate action: What’s best to save reefs?” Christian Science Monitor, July 2017, <https://www.csmonitor.com/Environment/Inhabit/2017/0713/From-coral-sperm-banks-to-climate-action-What-s-best-to-save-reefs?cmpid=push013s>

- 2017 **Grottoli AAAS Fellow** media coverage:

AAAS 2017 Fellows <https://www.aaas.org/page/2017-fellows>

“Two Arts and Sciences faculty members named 2017 AAAS Fellows”

- <https://artsandsciences.osu.edu/news/arts-and-sciences-faculty-members-named-2017-aaas-fellows>
 “Dr. Andrea Grottoli named 2017 AAAS Fellow” School of Earth Sciences Alumni News Notes (Nov 2017) <https://earthsciences.osu.edu/alumni/2017-alumni-news-notes>
 AAAS names four Ohio State faculty as 2017 Fellows
<https://news.osu.edu/news/2017/11/20/2017-aaas-fellows/>
 SES News “Professor Andrea Grottoli named AAAS Fellow”
<https://earthsciences.osu.edu/news/professor-andrea-grottoli-named-aaas-fellow>
- 2017 Interviewed by Eva Botkin-Kowaski and quoted in “Can ‘super-corals’ save the reefs?” Christian Science Monitor, Dec 2017,
<https://www.csmonitor.com/Environment/2017/1228/Can-super-corals-save-the-reefs?cmpid=push013s>
- 2018 **Grottoli et al (2018) PLoS ONE media coverage:**
 OSU press release <https://news.osu.edu/news/2018/01/22/coralbiome/>
 School of Earth Sciences News <https://earthsciences.osu.edu/news/new-study-coral-micorbiome-and-climate-change>
 Newswise <http://www.newswise.com/articles/view/688250/>
 EurekaAlert! https://www.eurekaalert.org/pub_releases/2018-01/osu-hcc012218.php
 PhysOrg <https://phys.org/news/2018-01-climate-weakens-coral-immune.html>
 Science Daily <https://www.sciencedaily.com/releases/2018/01/180122150021.htm>
 R&D Magazine – Online <https://www.rdmag.com/news/2018/01/how-climate-change-weakens-coral-immune-systems>
 ScienceNewsline <http://www.sciencenewsline.com/news/2018012216470042.html>
 Environment Guru <https://www.environmentguru.com/pages/elements/element.aspx?id=6025659>
 Ocean Sentry <http://www.oceansentry.org/climate-change-weakens-coral-immune-systems>
 Health News Digest http://www.healthnewsdigest.com/news/Environment_380/How-Climate-Change-Weakens-Coral-Immune-Systems.shtml
 Earth.com <https://www.earth.com/news/corals-weaker-immunity-climate/>
 Lab Manager Magazine http://www.labmanager.com/news/2018/01/how-climate-change-weakens-coral-immune-systems-#.Wmn_oFMbNRA
 Global News Connect <http://globalnewsconnect.com/how-climate-change-weakens-coral-immune-systems/>
 Science Newsline Biology <http://www.sciencenewsline.com/news/2018012216470042.html>
 Long Room <https://www.longroom.com/discussion/853097/how-climate-change-weakens-coral-immune-systems>
 Latest Headlines <http://latest-headlines.com/news/957355/how-climate-change-weakens-coral-immune-systems>
 My News <https://my-news-site.com/news/282360/how-climate-change-weakens-coral-immune-systems>
 WorldScience <https://voat.co/v/WorldScience/2353843>
 News Collected <http://www.newscollected.com/newsarticles/how-climate-change-weakens-coral-immune-systems>
 Parallelstate <https://www.parallelstate.com/news/how-climate-change-weakens-coral-immune-systems/610140>
 Technology.org https://www.technology.org/2018/01/23/how-climate-change-weakens-coral-immune-systems/?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+TechnologyOrg+%28Technology+Org+-+All+News%29
 Science360News Picture of the Day <https://news.science360.gov/obj/pic-day/f48dfa58-e6f1-4ad7-9620-97fd5a987aa3/understanding-coral-immune-systems>
 Ocean acidification News stream <https://news-oceanacidification-icc.org/2018/01/24/how-climate-change-weakens-coral-immune-systems/>
 Microbiome Digest <https://microbiomedigest.com/2018/01/18/january-18-2018/>
- 2018 Interviewed by Jason G. Goldman and quoted in “Even Corals Have Microbiomes”, Hakai Magazine, February 2018 <https://www.hakaimagazine.com/news/even-corals-have-microbiomes/>
- 2018 Interviewed by Amelia Urry and quoted in “Can Coral Microbes Protect Reefs from Climate Change?”, Oceans Deeply, March 2018, <https://www.newsdeeply.com/oceans/articles/2018/03/13/can-coral-microbes-protect-reefs-from-climate-change>
- 2018 Interviewed by Amelia Urry and quoted in “There’s still time for us to save the Great Barrier Reef”, Popular Science, April 2018, <https://www.popsci.com/great-barrier-reef-adaptation-survival>
- 2018 Batelle Podcast Interview on “Ocean Pollution, Coral Bleaching, and the Great Pacific Garbage Patch” by Samuel Bodary, June 2018
- 2018 Interviewed by 6th Grader Alexios Dulcinea on corals and climate change
- 2019 Interviewed by Michael Doyle and quoted in “Science shutdown an experiment in fear,

frustration”, Jan 2019, <https://www.eenews.net/greenwire/stories/1060111701>
 2019 Interviewed by Emily Portecorvo and featured in “Coral Microbiomes Offer Clues for Resilience and Conservation” EOS, Jan 2019 <https://eos.org/articles/coral-microbiomes-offer-clues-for-resilience-and-conservation>

REVIEWER FOR:

Funding agencies:

National Science Foundation (Division of Ocean Sciences)
 National Ocean and Atmospheric Association (NOAA)
 NERC – Natural Environment Research Council of the UK
 Caribbean Marine Research Center, a NOAA/NURC program
 BARD, the United States - Israel Binational Agricultural Research & Development Fund
 Netherlands Organization for Scientific Research (NWO) Climate Variability Program
 The Leverhulme Trust
 OITI Report (NSF, ONR)

Journals:

Palaios	Marine and Freshwater Behavior and Physiology
Geology	Palaeogeography, Palaeoclimatology, Palaeoecology
PLoS ONE	Journal of Experimental Marine Biology and Ecology
Science (AAAS)	Proceedings of the National Academy of Sciences (PNAS)
Marine Biology	Coral Reefs (Journal of the International Coral Reef Society)
Chemical Geology	Geochimica et Cosmochimica Acta
Paleoceanography	Estuarine, Coastal and Shelf Science
Nature Climate Change	Journal of Geophysical Research
Biological Reviews	Nature Communications
Scientific Reports	Geophysical Research Letters
Science Advances	Limnology and Oceanography
Current Biology	Marine Ecology Progress Series
ISME Journal	Frontiers in Marine Science

COLLABORATORS (in addition to co-authors):

T Darrah, C Ferrier-Pages, E Griffith, C Jury, P Marko, C Saenger, L Thompson, R Toonen, R vanWoesik, R Vega Thurber

COMMITTEES AT OHIO STATE UNIVERSITY:

2018- Arts and Sciences Investigation Committee, Member
 2017 - SES Promotion and Tenure Committee, Chair
 2017 - SES Administrative Committee, Member
 2017 - OSU Research Committee (URC), Member
 2017 - SES Mentor Committee for Elizabeth Griffith, Co-Mentor
 2014 - SES Mentor Committee for Audrey Sawyer, Co-Mentor
 2017 - 2018 SES Faculty Evaluation Committee, Member
 2013 - 2018 SES Mentor Committee for Michael Wilkins, Co-Mentor
 2013 - 2017 SES Technical support in geochemistry committee, Chair

2015 - 2017	OSU Senate Steering Committee and Senate Executive Council
2014 - 2017	OSU Faculty Senator and Faculty Council, Member
2008 - 2016	SES Division of Water, Climate and Env. Mini-Symposium, Chair
2015 - 2016	Global Water Institute committee, Member
2015 - 2016	OSU Graduate Council, Member
2013 - 2016	SES Faculty Evaluation Committee, Member
2013 - 2016	SES Promotion and Tenure Committee, Member
2010 - 2016	SES Advisory Committee to the Director, Member
2011 - 2012	SES Concentration: Earth System Science program development, Chair
2011	SES Guidelines on Emeritus Space and Resources committee, Chair
2010	CAS (College of Arts & Sciences) Parental Leave Working Group, Member
2009 - 2011	SES Webpage development, Chair
2009 - 2010	SES Curriculum Committee, Member
2009	EEOB Plant Ecologist Search Committee, Member
2007 - 2008	SES Graduate Committee, Member
2007 - 2008	SES Colloquium Committee, Member
2007	SES Division of Water, Climate and Environment Seminar, Coordinator
2005 - 2012	SES Health and Safety committee, Member
2005 - 2007	SES Curriculum Committee, Member
2005 - 2007	SES Major in Oceanography program development, Chair
2001 - 2004	U. Pennsylvania Institute for Environmental Studies Advisory Board, Member
2002 - 2004	U. Pennsylvania Masters of Environmental Science, Faculty Advisor
2003	U. Pennsylvania Instrumentation Acquisition Committee in Earth Sci, Member

MAJOR STUDENT OR POSTDOC ADVISOR TO:

PhD students

- 1) **James Price** (candidate)
 Dissertation: *Coral microbiome under climate change conditions and potential for acclimation*
 Awards: OSU first year graduate fellowship, ISRS Graduate Scholarship, Geological Society of America GSR Award, Friends of Orton Hall (twice)
- 2) **Rowan McLachlan** (candidate)
 Dissertation: *Coral adaptation and acclimatization to global change*
 Awards: Scottish International Education Trust, OSU Sigma Xi, National Sigma Xi, Friends of Orton Hall, Sutherland-Page Trust Scholarship
- 3) **Kerri Dobson** (candidate)
 Dissertation: *Multiple stressor effects on corals*
 Awards: National Sigma Xi, Alumni Grants for Graduate Research and Scholarship, Friends of Orton Hall (twice)
- 4) **Geoffrey Dipre** (candidate)
 Dissertation: *A reconstruction of quaternary Arctic environments using a multi-proxy analysis of Arctic Ocean sediment cores*
 Awards: University Fellow, AMS Summer Policy Colloquium, Rick Toracinta Graduate Scholarship
- 5) **Verena Schoepf** (PhD 2013)
 Dissertation: *Physiology and Biogeochemistry of Corals Subjected to Repeat Bleaching and*

Combined Ocean Acidification and Warming

Awards: Ohio State University Presidential Fellow, Lee Fund Fellow, Rotary Club Innsbruck Research Fellowship, Mayer Travel Fund,

Currently: research scientist at the University of Western Australia

6) **Stephen Levas** (PhD 2012)

Dissertation: *Biochemistry and Physiology of Bleached and Recovering Hawaiian and Caribbean Corals*

Awards: National Science Foundation East Asia and Pacific Summer Institutes Program Fellow, Ford Foundation Minority Scholarship Fellow, Minorities Striving and Pursuing Higher Degrees of Success in Earth System Science Scholar

Currently: Assistant Professor, University of Wisconsin – Whitewater

7) **Branwen Williams** (PhD 2009)

Dissertation: *Biogeochemistry of Alcyonacean and Antipatharian Corals in the Western Pacific Warm Pool*

Awards: National Science and Engineers of Canada Graduate Fellow

Currently: Associate Professor (tenured) at Claremont McKenna College

8) **Ryan P. Moyer** (PhD, 2008)

Dissertation: *Carbon Isotopes and Trace Elements in Small Mountainous Rivers and Coastal Coral Skeletons in Puerto Rico.*

Awards: Ohio State University Presidential Fellow, USGS Mendenhall Postdoctoral Fellow, St. Petersburg, FL

Currently: Associate Research Scientist at Florida Fish & Wildlife Conservation Commission

9) **Kathryn A. Matthews** (PhD, 2007)

Dissertation: *Cadmium in Coral Skeleton: Natural Variability and In Situ Calibration.*

Positions: Postdoctoral fellow at the Los Alamos National Laboratory, NM (2007-9), Congressional Postdoctoral Fellow, Washington, DC (2009-2010)

Currently: Deputy Chief Scientist at Oceana

10) **Lisa J. Rodriguez** (PhD, 2005)

Dissertation: *Physiology and Biogeochemistry of Bleached and Recovering Corals from Hawaii*

Positions: Postdoctoral Fellow, Department of Biology, Villanova University (2005-2008)

Currently: Associate Professor (tenured), Villanova University

MS students:

1) **Scott Kelsey** (M.S. 2016)

Thesis: *Impact of land use on headwater stream organic and inorganic carbon export in a temperate Midwestern experimental watershed*

Currently: laboratory technician at Wright State University

2) **Justin Bauman** (M.S. 2013)

Thesis: *The Effects of Elevated Temperature Stress on the Acquisition and Allocation of Carbon to Lipids in Hawaiian Corals*

Currently: Postdoctoral fellow at University of North Carolina – Chapel Hill

3) **Abbey E. Chrystal** (M.S. 2008)

Thesis: *Exploring Linear Extension and Stable Isotopes ($\delta^{18}O$, $\delta^{13}C$) as Proxies for Coral Bleaching*

in Porites lobata.

- 4) **Ruth Adler** (M.S. 2008)
Thesis: *The first Late Quaternary sediment record from the western Arctic Ocean with a true millennial resolution: HOTRAX core HLY0503-08JPC, Mendeleev Ridge*
Awards: National Science Foundation GK-12 Graduate Fellow
Currently: Adjunct professor at Case Western University
- 5) **Henry Chun-Yi Wu** (MES, 2004)
Thesis: *Stable Isotope Records from Western Pacific Corals*
Current: Research Scientist at the University of Paris Laboratoire D'Océanographie et du Climat

Undergraduates (senior thesis)

- 1) **Claire Juracka** (BS SENR Honors, in progress)
Thesis: *Remedial effects of enhanced feeding on the pigmentation of bleached Montipora capitata corals.*
- 2) **Hailey Hayes** (BS SENR, in progress)
Thesis: *Natural variability in the contribution of heterotrophic carbon to tissues of Pocillopora corals*
Awards: Fletcher Scholarship, Food and Water Watch Fellowship
- 3) **Elton Nguyen** (BS EEOB, in progress)
Thesis: *Development of an in vitro culture technique of Tridacna dersasa clams*
Awards: OSU Academic Enrichment Grant
- 4) **Andrea Wertz** (BS Microbiology, in progress)
Thesis: *Effect of bleaching and ocean acidification on coral pigmentation in Porites compressa corals.*
- 5) **Alexandra Smith** (BS Earth Science, in progress)
Thesis: *Natural variability in the contribution of heterotrophic carbon to tissues of Hawaiian corals*
Awards: SURE scholar, Office of Energy and Environment Undergrad Research Grant, Undergraduate Student Government Academic Enrichment Grant, Kathryn Sullivan Scholarship Award, ASC Honors Undergraduate Research Scholarship, Meyer's Undergrad Summer Research Fellowship, Susie L Shipley Undergraduate Scholarship, Ohio EPA Environmental Science and Engineering Scholarship, Denman UG Research Forum winner, 3-Minute Thesis Competition First Place Winner
- 6) **Margaret Otto** (BEng, in progress)
Thesis: *Modeling pH and temperature manipulations in situ*
Awards: STEP scholar, Grottoli Undergrad Hoover Foundation Internship
- 7) **Sarah Solomon** (BS EEOB, 2018)
Thesis: *Lipid class composition of annually bleached Caribbean corals*
Awards: Grottoli Undergrad Hoover Foundation Internship (twice), ASC Undergrad Research Scholarship, National Sigma Xi, OSU Honors and Scholars Enrichment Grant, Denman UG Research Forum winner, NMS Science Forum Best Poster winner, Student research blog <https://ugresearchtheohiostateuniversity.wordpress.com/2018/01/18/climate-change-sarah-solomon/>
Currently: research assistant in Grottoli lab

- 8) **John Armstrong** (BS EEOB, 2018)
Thesis: *Carbon budgets of bleached Hawaiian corals recovering under ocean acidification conditions*
Currently: at medical school
- 9) **Chloe Criswell** (BEng, 2018)
Thesis: *Dissipation of acidified water on a coral reef*
- 10) **Katherine Giesy** (BS Zoology, 2017, research distinction)
Thesis: *Effect of pH and temperature on carbon budgets of the Hawaiian corals Porites lobate*
Currently: graduate student at U-Miami
- 11) **Alec Moore** (BS EEOB, minor SES, 2017, research distinction)
Thesis: *Variability in Hawaiian coral across naturally occurring gradients in temperature, pCO₂, and flow.*
Awards: SURE Scholar, URO Mayers Summer Research Scholar, Grottoli Undergrad Hoover Foundation Internship, Ohio EPA Scholarship, OSU Sigma Xi, Arts and Sciences Undergraduate Research Scholarship, winner of the Denmen Undergraduate Research Forum (3rd place) and the Natural & Mathematical Sciences Undergrad Research Forum
- 12) **Annce Kadri** (BS Environmental Science, 2016)
Thesis: *Recovery of coral biomass following bleaching under ocean acidification conditions*
Awards: OSU Research Scholars Award, SURE scholar
Currently: dental school
- 13) **Casey Saup** (BS Earth Science, 2015)
Thesis: *Physiological and isotopic responses of Stylophora pistillata to future coastal ocean conditions*
Awards: NMS Undergraduate Research winner, -Denman Undergraduate Research honorable mention, SURE scholar
Currently: PhD student at OSU
- 14) **Micheal McBride** (BS Biology, 2014)
Thesis: *Effect of Repeat Bleaching Stress on the Stable Isotopes of Porites astreoides Corals*
Currently: Ohio University Heritage College of Osteopathic Medicine
- 15) **Tyler Liston** (BS Earth Science, 2014)
Thesis: *Interactive Effects of Temperature, Nutrients, and Ocean Acidification on Coral Biomass*
Awards: NMS Undergraduate Research Forum winner
- 16) **Colin Gearing** (BS Earth Science, 2013)
Thesis: *Particulate organic fluxes in Acropora millepora and Turbinaria reniformis at elevated temperature and pCO₂*
- 17) **Sarah Starkey** (BS Geology, 2012)
Thesis: *Sources of carbon to the skeleton of the mesophotic coral Leptoseris hawaiiensis*
Awards: SURE scholar
- 18) **Maximillian Ringwald** (BS Geology, 2012)
Thesis: *Denaturing Gradient Gel Electrophoresis Analysis of Microbial Community Variation in Bleached and Non-bleached Montastraea faveolata*
Awards: SURE Scholar

- 19) **Dana Borg** (Gava) (BS Geology, Honors, 2011)
Thesis: *Paleoceanography of sclerospoges from elemental signatures*
Awards: SURE Scholar, ASLO undergraduate research poster winner
- 20) **Justin Baumann** (BS Zoology/ BA Geology, 2011)
Thesis: *The effects of single and repeat bleaching on photosynthesis, respiration, and feeding in three species of Caribbean coral*
Awards: SURE Scholar, NMS Undergraduate Research Forum winner
Currently: postdoc at UNC-Chapel Hill
- 21) **Teresa Huey** (Sanders) (BS SENR, 2011)
Thesis: *Effect of Land Use on the Age and Isotopic Composition of Dissolved and Particulate Carbon in Headwater Streams*
Awards: SURE Scholar
- 22) **Chris Paver** (BS Earth Science, 2007)
Thesis: *Temporal and Spatial Natural Variability of the $\delta^{13}\text{C}$ of Dissolved Inorganic Carbon in Seawater*
Currently: employed at NOAA
- 23) **James E. Palardy** (BA Biology, 2004)
Thesis: *The Effect of Morphology, Polyp Size, Depth and Temperature on Feeding in Three Species of Panamanian Corals*. Published as Palardy et al. (2005)
Currently: program officer at the Pew Charitable Trust
- 24) **Lillian Bloch** (BA 2004)
Thesis: *Developing a Method for Black Carbon Extraction from Coral and Application to an Australian Coral Core*.
- 25) **Christopher Malachowski** (BA 2004)
Thesis: *Effects of River Discharge on Coral Reefs in Puerto Rico and the Relationship to Land Use/Land Cover*.

Postdocs

- 1) **Stephen Levas** (2012-2013)
Project: *Effect of ocean acidification and warming on corals* (NSF-funded project of Grottoli)
Currently: Assistant Professor University of Wisconsin – Whitewater
- 2) **Yasuaki Tanaka** (2012-2013)
Project: *The allocation of nitrate-derived N to the zooxanthellae, host tissue, and carbonate skeleton of Montipora digitata and Porites cylindrica, and subsequent changes in the $\delta^{13}\text{C}$ of each fraction*.
Awards: Japan Society Research Fellowships for Young Scientist
Currently: Assistant Professor at University Brunei Darussalam
- 3) **Branwen Williams** (2009)
Project: *Paleoceanography of the Pacific Warm Pool*
Currently: Associate Professor (tenured) at Claremont McKenna College
- 4) **Adam D. Hughes** (2006-2008)
Project: *Acquisition, Allocation, and Utilization of Carbon in Bleached and Recovering Corals* (NSF-funded project, Grottoli lead PI)
Currently: Research Scientist, The Scottish Association for Marine Science Dunstaffnage Marine

Laboratory

Visiting Scientist

- 1) **Marji Puotinen** (2012 - 2013), University of Wollagong
Project: Effect of hurricane-produced cool wakes on coral reefs

Faculty Mentees

- 1) **Elizabeth Griffith**, Assistant Professor in SES (2017 – present)
- 2) **Audrey Sawyer**, Assistant Professor in SES (2014 – present)
- 3) **Michael Wilkins**, Assistant Professor in SES (2013 – 2018)

STUDENT COMMITTEE MEMBER (in addition to Major students above):

- 1) **Nia Simone Walker** (PhD in progress, Stanford University, Hopkins Marine Lab)
- 2) **Samantha Carter** (PhD candidate, Ohio State University)
- 3) **Amber Bellamy** (PhD 2016, Ohio State University) *Contributions of allochthonous and aged organic matter to the diet and nutrition of macroinvertebrates*
- 4) **Donald Permana** (PhD 2015, Ohio State University) *Reconstructing History of Temperature and Net Accumulation based on Papua Ice-Cores and Its Implication on Climate Variability over Indonesia*
- 5) **Alvaro Fernandez** (PhD 2015, Tulane University) *Isotopic proxies of continental and oceanic climate* (currently postdoc in Switzerland)
- 6) **Karl Philippoff** (MS 2014, Ohio State University) *A climate history recovered from the Zangser Glacier, west-central Tibetan Plateau.*
- 7) **Jesse Filburn** (PhD 2013, Ohio State University) *An ecological approach to feed management in fish rearing ponds.*
- 8) **Deborah Leslie** (PhD student 2011-2012, Ohio State University) *Applying Stable Isotopes, $\delta^{11}\text{B}$, $\delta^{18}\text{O}$, and δD , in Geochemical and Hydrological Investigations*
- 9) **Kathryn Lang** (BS 2012 senior thesis, Ohio State University) *Hypoxia as a mediator of food web interactions and energy flow in reservoir ecosystems.*
- 10) **Donald Permana** (MS 2011, Ohio State University) *Reconstructing History of Temperature and Net Accumulation based on Papua Ice-Cores and Its Implication on Climate Variability over Indonesia*
- 11) **Annette Trierweiler** (MS 2010, Ohio State University) *Interaction of Landslides and Land Use Changes on Fluvial Carbon Transport*
- 12) **Henry Wu** (PhD 2010 at SUNY-Albany) *Assessing replicated coral trace element (Sr/Ca and Mg/Ca) variability and skeletal growth records from the tropical Pacific*
- 13) **Natalie Kehrwald** (PhD 2009, Ohio State University) *Low-latitude ice cores and freshwater availability.*
- 14) **Seth Young** (PhD 2007, Ohio State University) *A chemostratigraphic investigation of the late Ordovician greenhouse to icehouse transition: oceanographic, climatic, and tectonic implications.*
- 15) **Suzanna Richter** (PhD 2006, University of Pennsylvania) *Continental-Scale Patterns in Wood Cellulose $\delta^{18}\text{O}$: Implications for Paleoclimate Reconstruction*

WORK-STUDY, INTERNSHIP, and VOLUNTEER STUDENTS:

- | | |
|--------------------------------|--------------------------------|
| 1) Carlos Juarez (1999 – 2000) | 2) James Palardy (2001 – 2004) |
| 3) Lillian Bloch (2002 - 2003) | 4) Lauren Tang (2002 - 2003) |

- | | |
|---------------------------------------------------------|------------------------------------------|
| 5) Shayna Higa (2002 - 2003) | 6) Leigh Seeleman (2003 – 2004) |
| 7) Emily Young (2003) | 8) Christopher Malachowski (2003 – 2004) |
| 9) Haley Wolfgruber (2004) | 10) Lindsey Swiacki (2004 – 2005) |
| 11) Chris Paver (2005 – 2007) | 12) Patrick Bills (2007) |
| 13) Rachel Michelli (2007) | 14) Zachary Rosenbloom (2007) |
| 15) Christine Andrews (2007) | 16) Louis Boucher (2007) |
| 17) Frances Lugo (2007-2008) | 18) Scott Himes (2007 - 2008) |
| 19) Brad Hull (2007 - 2008) | 20) Pat Burns (2007-2008) |
| 21) Lei-Wei Hung (2008-2009) | 22) Julie Ditkof (2009) |
| 23) Jane Marino (2009-2010) | 24) Lindy Rauchenstein (2009-2010) |
| 25) Shaun Bartels (2010) | 26) Teresa Huey (2008 - 2011) |
| 27) Justin Bauman (2009- 2011) | 28) Mikelis Berzins (2011) |
| 29) Mohammed Munster (2011) | 30) Mark Ferrito (2010 – 2011) |
| 31) Maximillian Ringwald (2011 – 2012) | 32) Chrissy Zerda (2011 – 2012) |
| 33) Alexander Singer (high school intern) (2011 – 2012) | 34) Jordan Scheuerman (SURE - 2012) |
| 35) Elizabeth Zebrowski (2011 – 2012) | 36) Megan Shortridge (2012 – 2013) |
| 37) Michael McBride (2012 – 2014) | 38) Samantha Blackhurst (2012 – 2014) |
| 39) Tyler Liston (2013 – 2014) | 40) Colin Gearing (2013 – 2014) |
| 41) Megan Dudte (2014) | 42) Spencer Palombit (2014) |
| 43) Mallore Hagerty (2014 - 2015) | 44) Casey Saup (2013 – 2015) |
| 45) Annce Kadri (2014 – 2016) | 46) Maddie Rokosh (2015) |
| 47) Andrew Huber (2016) | 48) Katiri Snyder (2015 – 2016) |
| 49) Alec Moore (2015 – 2017) | 50) Emily Sambuco (2015 – 2017) |
| 51) Mathias Wagner (2016 – 2017) | 52) Francesca Hawkes (2017) |
| 53) Lydia Mullins (2017) | 54) Chloe Criswell (2016 – 2018) |
| 55) John Armstrong (2016 – 2018) | 56) Katherine Giesy (2016 – 2018) |
| 57) Jordan Walters (STEP 2017 – 2018) | 58) Colin Mortemore (STEP 2017 – 2018) |
| 59) Jackie Altschuler (STEP 2017 – 2018) | 60) Margaret Otto (STEP 2016 – present) |
| 61) Sarah Solomon (2015 – 2018) | 62) Alex Smith (SURE 2017 – present) |
| 63) Andrea Wertz (2017 – present) | 64) Hailey Hayes (2017 – present) |
| 65) Adrianna Arribas (STEP 2018 – present) | 66) Kristen Rockwell (2018 – present) |
| 67) Claire Juracka (Honors 2018 – present) | 68) Emma Kline (2018 – present) |
| 69) Ester Kang (2018 – present) | 70) Monica Locatis (STEP 2018 – present) |
| 71) Elton Nguyen (2018 – present) | |

TOTAL NUMBER OF STUDENTS ADVISED:

Graduate Student PhD Dissertation Major Advisor: 10

Graduate Student Masters Major Advisor: 5

Graduate Student Committee Member (not as Major Advisor): 15

Total graduate students advised: 30

Total undergraduate senior thesis students advised: 25

Total undergraduate work-study, interns, and volunteers: 71

Total Postdocs advised: 4