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PROFESSIONAL APPOINTMENTS

- 2020–Present Associate Professor, Department of Earth and Ocean Sciences, Tufts University, Medford, MA.
- 2013–2020 Assistant Professor, Department of Earth and Ocean Sciences, Tufts University, Medford, MA. Tenure awarded in July 2020.
- 2010–2013 Post-Doctoral Fellow, Yale Climate and Energy Institute and School of Forestry and Environmental Studies, Yale University, New Haven, CT
- 2009–2010 Post-Doctoral Researcher, Department of Earth and Environmental Science, University of Pennsylvania, Philadelphia, PA

EDUCATION

- | | | |
|---|---------------------------------|------|
| University of Pennsylvania, PhD | Earth and Environmental Science | 2009 |
| University of Durham (UK), BSc (Hons) First Class | Geography | 2002 |

PEER-REVIEWED PUBLICATIONS

Supervised post-doctoral authors denoted by #; Graduate student authors underlined; Undergraduate authors denoted by *.

1. **Kemp, A.C.**, Wright, A.J., and Cahill, N., In Press. Enough is enough or more is more? Testing the influence of foraminiferal count size on reconstructions of paleomarrow elevation. *Journal of Foraminiferal Research*.
2. Horton, B.P., Khan, N.S., Cahill, N., Lee, J.S.H., Shaw, T.A., Garner, A.J., **Kemp, A.C.**, Engelhart, S.E., and Rahmstorf, S., 2020. Estimating global mean sea-level rise and its uncertainties by 2100 and 2300 by expert assessment. *Climate and Atmospheric Science* 3, 18. *Popular media coverage including The Guardian, Bild, The Hindu, Straits Times.*
3. Vane, C.H., Kim, A.W., Hayes-Moss, V., Turner, G.H., Mills, K., Chenery, S.R., Barlow, T.S., **Kemp, A.C.**, Engelhart, S.E., Hill, T.D., Horton, B.P., Brain, M.J., 2020. Organic pollutants, heavy metals and toxicity in oil spill impacted salt-marsh sediment cores, Staten Island, New York City. *Marine Pollution Bulletin* 151, 110721.
4. Anisfeld, S.C., **Kemp, A.C.**, and O'Connell, J., 2019. Salt marsh migration into lawns revealed by a novel sediment-based approach. *Estuaries and Coasts* 42, Pg. 1419–1429.

5. **Kemp, A.C.**, Vane, C.H., Khan, N.S., Engelhart, S.E., Horton, B.P., Ellison, J.C., Nikitina, D., Smith, S.R., Rodrigues, L.J., and Moyer, R.P., 2019. Testing the utility of geochemical proxies to reconstruct Holocene coastal environments and relative sea level: a case study from Hungry Bay, Bermuda. *Open Quaternary* 5, Pg. 1–17.
6. Ashe, E.L., Cahill, N., Hay, C.C., Khan, N.S., **Kemp, A.C.**, Engelhart, S.E., Horton, B.P., Parnell, A.C., and Kopp, R.E., 2019. Statistical modeling of rates and trends in Holocene relative sea level. *Quaternary Science Reviews* 204, Pg. 58–77.
7. Piecuch, C.G., Huybers, P., Hay, C.C., **Kemp, A.C.**, Little, C.M., Mitrovica, J.X., Ponte, R.M., and Tingley, M.P., 2018. Origin of spatial variation in US East Coast sea-level trends during 1900–2017. *Nature* 564, Pg. 400–404.
8. **Kemp, A.C.**, Wright, A.J., Edwards, R.J., Barnett, R.L., Brain, M.J., Kopp, R.E., Cahill, N., Horton, B.P., Charman, D., Hawkes, A.D., Hill, T.D., and van de Plassche, O., 2018. Late Holocene relative sea-level change in Newfoundland, Canada. *Quaternary Science Reviews* 201, Pg. 89–110.
9. Piecuch, C., [#]Bittermann, K., **Kemp, A.C.**, Ponte, R., Little, C., Engelhart, S.E., and Lentz, S.J., 2018. River discharge effects on the United States Atlantic and Gulf coast mean sea-level changes. *Proceedings of the National Academy of Sciences* 115, Pg. 7729–7734.
10. Talke, S.A., **Kemp, A.C.**, and Woodruff, J., 2018. Relative sea level, tides, and extreme water levels in Boston Harbor from 1825 to 2018. *Journal of Geophysical Research: Oceans* 123. <https://doi.org/10.1029/2017JC013645>. Popular media coverage including *The Boston Globe*, *Science Daily*, and *AGU*.
11. **Kemp, A.C.**, Cahill, N., Engelhart, S.E., Hawkes, A.D., and Wang, K., 2018. Revised estimates of spatially-variable subsidence during the AD 1700 Cascadia earthquake using a Bayesian foraminiferal transfer function. *Bulletin of the Seismological Society of America* 108, Pg., 654–673.
12. Kim, A., Vane, C.H., Moss-Hayes, V., Engelhart, S.E. and **Kemp, A.C.**, 2018. PAH, PCB, TPH and mercury in surface sediments of the Delaware River estuary and Delmarva Peninsula, USA. *Marine Pollution Bulletin* 129, Pg., 835–845.
13. [#]Bittermann, K., Rahmstorf, S., Kopp, R.E., and **Kemp, A.C.**, 2017. Global mean sea-level rise in a world agreed upon in Paris. *Environmental Research Letters* 12, 124010. Selected by the editors of *ERL* as a “featured article” in January 2018.
14. Gerlach, M.J., Engelhart, S.E., **Kemp, A.C.**, Moyer, R.P., Smoak, J., Bernhardt, C.E. and Cahill, N., 2017. Reconstructing Common Era relative sea-level change on the Gulf coast of Florida. *Marine Geology* 390, Pg., 254–269.
15. Brain, M.J., **Kemp, A.C.**, Hawkes, A.D., Vane, C.H., Cahill, N., Hill, T.D., Engelhart, S.E., Donnelly, J.P., and Horton, B.P., 2017. Exploring mechanisms of compaction in salt-marsh sediments using Common Era relative sea-level reconstructions. *Quaternary Science Reviews* 167, Pg., 96–111.
16. **Kemp, A.C.**, Kegel, J.J., Culver, S.J., Barber, D.C., Mallinson, D.J., Leorri, E., Bernhardt, C.E., Cahill, N., Riggs, S.R., *Woodson, A.L., Mulligan, R.P., and Horton, B.P., 2017. Extended late Holocene relative sea-level histories for North Carolina, USA. *Quaternary Science Reviews* 160, Pg. 13–30.
17. **Kemp, A.C.**, Horton, B.P., Nikitina, D., Vane, C.H., Potapova, M., *Weber-Bruya, E., Culver, S.J., Repkina, T., and Hill, D.F., 2017. The distribution and utility of sea-level indicators in Eurasian sub-Arctic salt marshes (White Sea, Russia). *Boreas* 46, Pg., 562–584.

18. **Kemp, A.C.**, Wright, A.J., Barnett, R.L., Hawkes, A.D., Charman, D.J., *Sameshima, C., *King, A.N., *Mooney, H.C., Edwards, R.J., Horton, B.P., and van de Plassche, O., 2017. Utility of salt-marsh foraminifera, testate amoebae and bulk-sediment $\delta^{13}\text{C}$ values as sea-level indicators in Newfoundland, Canada. *Marine Micropaleontology* 130, Pg. 43–59.
19. **Kemp, A.C.**, Hill, T.D., Vane, C.H., Cahill, N., Orton, P.M., Talke, S.A., Andrew C. Parnell, *Sanborn, K., and Hartig, E.K., 2017. Relative sea-level trends in New York City during the past 1500 years. *The Holocene* 27, Pg. 1169–1186. *Popular media coverage including The New York Times. “Most read” article in The Holocene during 2017.*
20. Anisfeld, S.C., Cooper, K.R. and **Kemp, A.C.**, 2017. Upslope development of a tidal marsh as a function of upland land use. *Global Change Biology* 23, Pg. 755–766.
21. Hawkes, A.D., **Kemp, A.C.**, Donnelly, J.P., Horton, B.P., Peltier, W.R., Cahill, N., Hill, D. F., Ashe, E. and Alexander, C.R., 2016. Relative sea-level change in northeastern Florida (USA) during the last ~8.0 ka. *Quaternary Science Reviews* 142, Pg. 90–101.
22. Cahill, N., **Kemp, A.C.**, Horton, B.P., and Parnell, A.C., 2016. A Bayesian hierarchical model for reconstructing relative sea level: from raw data to rates. *Climate of the Past* 12, Pg. 525–542.
23. Kopp, R.E., **Kemp, A.C.**, Bitterman, K., Horton, B.P., Donnelly, J.P., Gehrels, W.R., Hay, C., Mitrovica, J.X., Morrow, E.D., and Rahmstorf, S., 2016. Temperature-driven global sea-level variability in the Common Era. *Proceedings of the National Academy of Sciences* 113, Pg. E1434–E1441. *Popular media coverage including The New York Times, The Washington Post, The Boston Globe, U.S. News and World Report, USA Today, BBC World Service News, Public Radio International, ABC News, CBS News, CNN, Vice News, Al Jazeera News, Bloomberg News, Mashable, Scientific American, Science Magazine, The Independent (UK), The Irish Examiner, The Daily Mail (UK), The Guardian (UK), Reuters, and a widely syndicated Associated Press article. In top 5% of all research outputs scored by Altmetric, ranked 73rd of 2.7m papers in 2016 and 6th in the field of Earth and Environmental Science. Presented by Senator Sheldon Whitehouse in the U.S. Senate on February 24th 2016.*
24. Sawai, Y., Horton, B.P., **Kemp, A.C.**, Hawkes, A.D., Nagumo, T., and Nelson, A., 2016. Distribution of modern intertidal diatoms in Oregon and Washington, USA. *Diatom Research* 31, Pg. 17–38.
25. **Kemp, A.C.**, Dutton, A., and Raymo, M.E., 2015. Paleo constraints on future sea-level rise. *Current Climate Change Reports* 1, Pg. 205–15.
26. Reed, A.J., Mann, M.E., Emanuel, K.A., Lin, N., Horton, B.P., **Kemp, A.C.**, and Donnelly, J.P., 2015. Increasing vulnerability of New York City to coastal flooding from tropical cyclones during the last millennium. *Proceedings of the National Academy of Sciences* 112, Pg. 12610–12615. *Popular media coverage including USA Today, Washington Post, Toronto Star, Climate Central, Time, New Scientist, Scientific American, CBS News, and a widely syndicated Associated Press article.*
27. Nikitina, D., **Kemp, A.C.**, Engelhart, S.E., Horton, B.P., Hill, D.F., and Kopp, R.E., 2015. Sea-level change and subsidence in the Delaware estuary during the last ~2200 years. *Coastal, Estuarine, and Shelf Science* 164, Pg. 506–519.
28. **Kemp, A.C.**, Hawkes, A.D., Donnelly, J.P., Vane, C.H., Horton, B.P., Hill, T.D., Anisfeld, S.C., Parnell, A.C., and Cahill, N., 2015. Relative sea-level change in Connecticut (USA) during the last 2200 years. *Earth and Planetary Science Letters* 428, Pg. 417–429.
29. Kopp, R.E., Horton, B.P., **Kemp, A.C.**, and Tebaldi, C., 2015. Past and future sea-level rise along the coast of North Carolina, United States. *Climatic Change* 132, Pg. 693–707. *Popular media coverage including WUNC, North Carolina public radio.*

30. Lindeman, K.C., Dame, L.E., Avenarius, C.B., Horton, B.P., Donnelly, J.P., Corbett, D.R., **Kemp, A.C.**, Lane, P., Mann, M.E., and Peltier, W.R., 2015. Science needs for sea-level adaptation planning: comparisons among three U.S. Atlantic coast regions. *Coastal Management* 43, Pg. 555–574.
31. Cahill, N., **Kemp, A.C.**, Parnell, A.C., and Horton, B.P., 2015. Modeling sea-level change using errors-in-variables integrated Gaussian processes. *Annals of Applied Statistics* 9, Pg. 547–571.
32. Brain, M.R., **Kemp, A.C.**, Horton, B.P., Culver, S.J., Parnell, A.C., and Cahill, N., 2015. Quantifying the contribution of sediment compaction to late Holocene salt-marsh sea-level reconstructions. *Quaternary Research* 83, Pg. 41–51.
33. van de Plassche, O., Wright, A.J., Horton, B.P., Engelhart, S.E., **Kemp, A.C.**, Kopp, R.E., and Mallinson, D., 2014. Estimating tectonic uplift of the Cape Fear Arch (southeast-Atlantic coast, USA) using reconstructions of Holocene relative sea level. *Journal of Quaternary Science* 29, Pg. 749–759.
34. Pilarczyk, J.E., Dura, T., Horton, B.P., Engelhart, S.E., **Kemp, A.C.**, and Sawai, Y., 2014. Microfossils from coastal environments as indicators of palaeo- earthquakes, tsunamis, and storms. *Palaeogeography, Palaeoclimatology, Palaeoecology* 413, Pg. 144–157.
35. **Kemp, A.C.**, Bernhardt, C.E., Horton, B.P., Kopp, R.E., Vane, C.H., Peltier, W.R., Hawkes, A.D., Donnelly, J.P., Parnell, A.C., and Cahill, N., 2014. Late Holocene sea- and land-level change on the U.S. southeastern Atlantic coast. *Marine Geology* 357, Pg. 90–100.
36. Briggs, R.W., Engelhart, S.E., Nelson, A.R., Dura, T., **Kemp, A.C.**, Haeussler, P.J., Corbett, D.R., Angster, S.J., and Bradley, L.A., 2014. Uplift and subsidence reveal a non-persistent megathrust rupture boundary (Sitkinak Island, Alaska). *Geophysical Research Letters* 41, 2014GL059380.
37. Nikitina, D., **Kemp, A.C.**, Horton, B.P., Vane, C.H., van de Plassche, O., and Engelhart, S.E., 2014. Storm erosion during the past 2000 years along the north shore of Delaware Bay, USA. *Geomorphology* 208, Pg. 160–172.
38. Horton, B.P., Rahmstorf, S., Engelhart, S.E., and **Kemp, A.C.**, 2014. Expert assessment of sea-level rise by AD 2100 and 2300. *Quaternary Science Reviews* 84, Pg. 1–6. *Popular media coverage including The Washington Post, The Guardian (UK), Huffington Post, Real Climate, Science Daily, Climate Central. 7th most cited article published in QSR over the period January 2013 to December 2017.*
39. Miller, K.G., Kopp, R.E., Horton, B.P., Browning, J.V., and **Kemp, A.C.**, 2013. A geological perspective on sea-level rise and its impacts along the U.S. mid-Atlantic coast. *Earth's Future* 1. DOI: 10.1002/2013EF000135. *Popular media coverage including The New York Times, The Boston Globe, The Philadelphia Enquirer, National Public Radio (Radio Times).*
40. **Kemp, A.C.**, Horton, B.P., Vane, C.H., Bernhardt, C.E., Corbett, D.R., Engelhart, S.E., Anisfeld, S.C., Parnell, A.C., and Cahill, N., 2013. Sea-level change during the last 2500 years in New Jersey, USA. *Quaternary Science Reviews* 81, Pg. 90–104.
41. **Kemp, A.C.**, Telford, R.J., Horton, B.P., Anisfeld, S.C., and Sommerfield, C.K., 2013. Reconstructing Holocene sea level using salt-marsh foraminifera and transfer functions: lessons from New Jersey, USA. *Journal of Quaternary Science* 28, Pg. 617–629.

42. **Kemp, A.C.** and Horton, B.P., 2013. Contribution of relative sea-level rise to historic hurricane flooding in New York City. *Journal of Quaternary Science* 28, Pg. 537–541. *Popular media coverage including The Weather Channel, Climate Central, Science Daily, and New York City public radio (WNYC).*
43. Horton, B.P., Engelhart, S.E., Hill, D.F., **Kemp, A.C.**, Nikitina, D., Miller, K. G. and Peltier, W.R., 2013. Influence of tidal-range change and sediment compaction on Holocene relative sea-level change in New Jersey, USA. *Journal of Quaternary Science* 28, Pg. 403–411.
44. **Kemp, A.C.**, Engelhart, S.E., Culver, S.J., Nelson, A.R., Briggs, R.W., and Haeussler, P.J., 2013. Modern salt-marsh and tidal-flat foraminifera from Sitkinak and Simeonof Islands, southwestern Alaska. *Journal of Foraminiferal Research* 43, Pg. 83–94.
45. **Kemp, A.C.**, Sommerfield, C. K., Vane, C.H., Horton, B.P., Chenery, S., Anisfeld, S.C. and Nikitina, D., 2012. Use of lead isotopes for developing chronologies in recent salt-marsh sediments. *Quaternary Geochronology* 12, Pg. 40–49.
46. **Kemp, A.C.**, Horton, B.P., Vann, D.R., Engelhart, S.E., Grand Pre, C. A., Vane, C.H., Nikitina, D. and Anisfeld, S.C. 2012. Quantitative vertical zonation of salt-marsh foraminifera for reconstructing former sea level; an example from New Jersey, USA. *Quaternary Science Reviews* 54, Pg. 26–39.
47. **Kemp, A.C.**, Vane, C.H., Horton, B.P., Engelhart, S.E. and Nikitina, D., 2012. Application of stable carbon isotopes for reconstructing salt-marsh floral zones and relative sea level, New Jersey, USA. *Journal of Quaternary Science* 27, Pg. 404–414.
48. Engelhart, S.E., Horton, B.P. and **Kemp, A.C.**, 2011. Holocene sea-level changes along the United States' Atlantic Coast. *Oceanography* 24, Pg. 70–79.
49. Gehrels, W.R., Horton, B.P., **Kemp, A.C.**, Toker, E. and Sivan, D., 2011. Sea-level records of the last 2000 years hold the key to understanding contemporary and future sea-level changes. *EOS, Transactions, American Geophysical Union* 92, Pg. 289–291.
50. **Kemp, A.C.**, Horton, B.P., Donnelly, J.D., Mann, M.E., Vermeer, M. and Rahmstorf, S., 2011. Climate related sea-level variations over the past two millennia. *Proceedings of the National Academy of Sciences* 108, Pg. 11017–11022. *Popular media coverage including Science News, National Geographic (Sept 2013), Time Magazine, USA Today, Boston Globe, Washington Post, MSNBC, Science Daily, Popular Science Magazine, The Daily Telegraph (UK), The Mirror (UK), Der Spiegel (Germany) and widely syndicated as an Associated Press article. Included in World Bank Report "Turn down the heat" (2012). Data presented in Intergovernmental Panel on Climate Change (IPCC) AR5 (Chapter 13). In top 1% of all research outputs scored by Altmetric. Downloaded ~105,000 times as of January 2017. Referenced during 2015 State of the Union Address (President Barack Obama).*
51. **Kemp, A.C.**, Buzas, M.A., Horton, B.P. and Culver, S.J., 2011. Influence of patchiness on modern salt-marsh foraminifera used in sea-level studies (North Carolina, USA). *Journal of Foraminiferal Research* 41, Pg. 114–123.
52. **Kemp, A.C.**, Vane, C., Horton, B.P. and Culver, S.J., 2010. Stable carbon isotopes as potential sea-level indicators in salt marshes, North Carolina, USA. *The Holocene* 20, Pg. 623–636.
53. Zong, Y., **Kemp, A.C.**, Yu, F., Lloyd, J.M., Huang, G. and Yim, W.W.S., 2010. Diatoms from the Pearl River estuary, China and their suitability as water salinity indicators for coastal environments. *Marine Micropaleontology* 75, Pg. 38–49.
54. Horton, B.P., Peltier, W.R., Culver, S.J., Drummond, R., Engelhart, S.E., **Kemp, A.C.**, Mallinson, D., Thieler, E.R., Riggs, S.R. and Ames, D.V., 2009. Holocene sea-level changes along the North Carolina

- Coastline: Implications for glacial isostatic adjustment models and current rates of sea-level change. *Quaternary Science Reviews* 28, Pg. 1725–1736.
55. **Kemp, A.C.**, Horton, B.P., Culver, S.J., Corbett, D.R., van de Plassche, O., Gehrels, W.R. Douglas, B.D. and Parnell, A., 2009. The timing and magnitude of recent accelerated sea-level rise (North Carolina, USA). *Geology* 37, Pg. 1035–1038.
56. **Kemp, A.C.**, Horton, B.P. and Culver, S.J., 2009. Distribution of modern salt-marsh foraminifera in the Albemarle-Pamlico estuarine system of North Carolina: implications for sea-level research. *Marine Micropaleontology* 72, Pg. 222–238.
57. **Kemp, A.C.**, Horton, B.P., Corbett, D.R., Culver, S.J., Edwards, R. J. and van de Plassche, O., 2009. The relative utility of foraminifera and diatoms for reconstructing late Holocene relative sea-level change in North Carolina, USA. *Quaternary Research* 71, Pg. 9–21.
58. Horton, B.P., Whittaker, J.E., Thompson, K.H., Hardbattle, M.I.J., **Kemp, A.C.**, Woodroffe, S.A. and Wright, M.R., 2005. The development of a modern foraminiferal data set for sea-level reconstructions. Wakatobi Marine National Park, Southeast Sulawesi, Indonesia. *Journal of Foraminiferal Research* 35, Pg. 1–14.

PEER-REVIEWED BOOK CHAPTERS

59. **Kemp, A.C.** and Horton, B.P., Accepted. Time and tide wait for no man. In Culver, S.J. (ed.) *Troubled Waters: The Science Behind Our Coastal Crisis*. Springer Climate. *Full length, illustrated chapter.*
60. Gehrels, W.R. and **Kemp, A.C.**, Accepted. Salt marshes as recorders of Holocene sea-level rise. In Fitzgerald, D. and Hughes, Z. (eds.) *Salt Marshes*. Cambridge University Press, Cambridge. *Full length, illustrated chapter.*
61. **Kemp, A.C.** and Telford, R.J., 2015. Transfer functions. In Shennan, I., Long, A.J. and Horton B.P. (eds.) *Handbook for Sea-Level Research*, Pg. 470–499, Wiley-Blackwell. *Full length, illustrated chapter.*
62. **Kemp, A.C.**, Horton, B.P., Engelhart, S.E., 2013. Late Quaternary relative sea-level changes at mid-latitudes. In Elias, S.A. (ed.) *Encyclopedia of Quaternary Science*, Pg. 489–494, Elsevier, Amsterdam. *Full length, illustrated chapter.*
63. **Kemp, A.C.**, Nelson, A.R. and Horton, B.P., 2013. Radiocarbon dating of plant macrofossils from salt-marsh sediments. In Schroder, J.F. (ed.) *Treatise on Geomorphology*, Pg. 370–388. Academic Press, San Diego. *Full length, illustrated chapter.*
64. Horton, B.P., Engelhart, S.E., **Kemp, A.C.** and Sawai, Y., 2013. Microfossils in tidal settings as indicators of sea-level change, paleoearthquakes, tsunamis and tropical cyclones. In Schroder, J.F. (ed.) *Treatise on Geomorphology*, Pg. 292–314. Academic Press, San Diego. *Full length, illustrated chapter.*

OTHER PUBLICATIONS

65. Barnett, R.L., **Kemp, A.C.**, and Gehrels, W.R., 2019. Late Holocene sea level. *PAGES Magazine* 27, Pg. 8–9.
66. Garner, A.J., Kopp, R.E., Horton, B.P., Mann, M.E., Alley, R.B., Emanuel, K.A., Lin, N., Donnelly, J.P., **Kemp, A.C.**, DeConto, R., and Pollard, D., 2018. New York City's evolving flood risk from hurricanes and sea-level rise. *CLIVAR Exchanges* 74, Pg. 30–35.

67. DeConto, R., Fitzgerald, D., Hay, C.C., Hughes, Z., **Kemp, A.C.**, and Kopp, R.E., 2016. Sea-Level Rise. In Boston Research Advisory Group. *Climate ready Boston: Climate change and sea-level rise projections for Boston*. 54p. Popular media coverage including *The Boston Globe*.
68. Horton, B.P., Rahmstorf, S., Engelhart, S.E., and **Kemp, A.C.**, 2014. Reply to comment received from J.M. Gregory et al. regarding “Expert assessment of future sea-level rise by 2100 and 2300 AD”. *Quaternary Science Reviews* 97, Pg. 195–196.
69. Horton, B.P., Engelhart, S.E., and **Kemp, A.C.**, 2012. The past as guide to the future: US geological records of sea-level change. *Live Better Magazine* 19.
70. **Kemp, A.C.**, Horton, B.P., Donnelly, J.D., Mann, M.E., Vermeer, M. and Rahmstorf, S., 2011. Reply to Grinsted et al.; estimating land subsidence in North Carolina. *Proceedings of the National Academy of Sciences* 108, Pg. E783.

PUBLICATIONS IN REVIEW

1. Piecuch, C.G., **Kemp, A.C.**, and Gebbie, G. Climate forcing insufficient to explain sea-level low stands in Maldives during Common Era. In Review. *Nature Geoscience*.

RESEARCH GRANTS

Current

- 2020–2025 **National Science Foundation (CAREER OCE-1942563)**. Dynamic sea-level trends during the last two millennia. Sole PI (\$770,822 individual).
- 2020–2022 **National Science Foundation (OCE-MGG-2002431)**. How robust are Common Era sea-level reconstructions? Co-PI (\$727,418 total, \$85,764 individual).
- 2018–2021 **National Science Foundation (OCE-MGG-1831382)**. Multi-proxy relative sea-level reconstructions and projections in the middle Pacific Ocean. PI (\$286,668 individual; \$596,413 total).

Completed

- 2015–2018 **National Science Foundation (OCE-MGG-1458921)**. Sea-level variability during the Common Era. Co-PI (\$479,784 total, \$100,815 individual).
- 2016–2017 **National Geographic Society / Waitt Grants Program**. Reconstructing animal populations in east Africa using fecal sterol markers. Sole PI (\$14,850).
- 2014–2016 **Connecticut Sea Grant**. The future of Long Island Sound tidal marshes: understanding marsh migration into different upland types. Co-PI (\$129,994 total).
- 2014–2016 **Massachusetts (MIT) Sea Grant**. Recovery of historic sea-level measurements for Boston. PI (\$25,000 total).
- 2013–2014 **Yale University Climate and Energy Institute**. Linking the development of a novel paleostorm indicator with regional sea-level rise projections and urban ecological design: An

interdisciplinary foundation for implementing Connecticut coastal resilience plans. Co-PI (\$35,748).

- 2010–2012 **Yale University Climate and Energy Institute.** Post-Doctoral Fellowship 2010 and 2011 (\$140,000). *Competitive funding awarded annually to a maximum of two years.*
- 2008 **NOSAMS Graduate Student Internship Program** (~\$45,000).
- 2007 **Garry Jones Memorial Grant (North American Micropaleontology Section, SEPM)** (\$1,500).
- 2007 **Geological Society of America.** Graduate student award (\$1,600).

TEACHING EXPERIENCE

2013–Present Assistant/Associate Professor, Tufts University

Global climate change (Upper level, ~20 undergraduates)
 Paleoclimate (Upper level seminar, ~10 undergraduates)
 Oceanography (Introductory level, ~80 undergraduates)
 Senior thesis/Independent study

2005–2009 Teaching Assistant, University of Pennsylvania

Oceanography
 Evolution of the physical world
 Earth and life through time
 Co-supervision of senior thesis research projects

2009 Invited Instructor, East China Normal University, State Key Laboratory of Estuarine and Coastal Research (Shanghai, China)

Two week field and laboratory course on reconstructing sea-level attended by faculty and graduate students.

INVITED REVIEWER

Peer-Reviewed Journals

African Journal of Aquatic Science; Boreas; Climate of the Past; **Earth and Planetary Science Letters**; Estuaries and Coasts; Estuarine, Coastal and Shelf Science; **Geology**; **Geophysical Research Letters**; Geosciences Journal; Global and Planetary Change; Hydrobiologia; Irish Journal of Earth Sciences; Journal of Foraminiferal Research; Journal of Quaternary Science; Journal of Waterway, Port, Coastal and Ocean Engineering; Marine Geology; Marine Micropaleontology; Marine Pollution Bulletin; **Nature**; **Nature Climate Change**; **Nature Geoscience**; New Zealand Journal of Geology and Geophysics; Open Quaternary; Palaeogeography Palaeoclimatology Palaeoecology; **PNAS**; Quaternary International; Quaternary Research; **Quaternary Science Reviews**; Sedimentary Geology; Vegetation History and Archaeobotany.

United States Geological Survey (internal review process).

Grants

American Chemical Society (Petroleum Research Fund); CT Sea Grant; Deutsche Forschungsgemeinschaft (German Research Foundation); Graduate Women in Science; Israel Science Foundation; National Academy of Sciences (Gulf Research Program); National Environmental Research Council (United Kingdom); National Geographic Society; National Science Foundation (EAR Sedimentary Geology and Paleobiology, EAR Post-Doctoral Fellowships, OCE Marine Geology and Geophysics, EAR Paleo Perspectives on

Climate Change, OCE Major Research Instrumentation); National Science Foundation of China; Natural Sciences and Engineering Research Council of Canada (Canada); Netherlands Organisation for Scientific Research (Earth and Life Sciences); Portuguese Foundation for Science and Technology; RI Sea Grant; The Royal Society (United Kingdom).

INVITED PRESENTATIONS

University of Toronto (January 2020); Woods Hole Oceanographic Institution (January 2019); Bigelow Marine Laboratory (January 2019); American Geophysical Union (December 2018); Boston College (October 2018); University of Texas Austin (November 2017); Dalhousie University (April 2017); Northeastern University Marine Science Center (March 2017); Lamont-Doherty Earth Observatory at Columbia University (May 2016); Harvard University (April 2016); Boston College (April 2015); Harvard University (Science by the Pint series; July 2014); University of Cape Town (April 2014); American Geophysical Union (December 2013); Eawag (Swiss Federal Institute of Aquatic Science and Technology; March 2013); Coastal Carolina University (February 2013); Florida State University (February 2013); University of Arkansas (February 2013); University of South Carolina (January 2013); Tufts University (December 2012; February 2015); Virginia Institute of Marine Science (April 2012); University of Rhode Island (March 2012); Yale University (September 2010); University of Hong Kong (November 2009); East China Normal University (September 2009).

PROFESSIONAL ACTIVITIES

Session convener

European Geophysical Union annual meeting (April 2018)
 Geological Society of America annual meeting (November 2012; November 2015)
 American Geophysical Union annual meeting (December 2013)

Other

2015	Member of Boston Research Advisory Group that provides expert input to the Climate-Ready Boston program to ensure that Boston is prepared for the impacts of climate change
2015–2016	Director; Cushman Foundation for Foraminiferal Research
2010	IGCP 495 Sixth International Meeting. Fieldtrip co-organizer and presenter
2009	Project Leader; Earthwatch Institute Expedition
2005–2009	Graduate Associate; Kings Court English College House; University of Pennsylvania
2001	Operation Wallacea Volunteer; Wakatobi Marine Park; Indonesia

PROFESSIONAL MEMBERSHIP

Geological Society of America (GSA); American Geophysical Union (AGU); Cushman Foundation for Foraminiferal Research; European Geophysical Union (EGU); Quaternary Research Association (QRA); Society of Sedimentary Geology (SEPM); North American Micropaleontological Section (NAMS); American Quaternary Association (AMQUA).

UNIVERSITY SERVICE

2013–Present	Tufts University. Environmental Studies steering committee.
2013–Present	Tufts University. Undergraduate major advising (Earth and Ocean Sciences; Biology; Environmental Studies).
2016–Present	Tufts University. Faculty ambassador to the School of the Museum of Fine Arts.
2016–Present	Tufts University. Pre-major advising.
2017–Present	Tufts University. Affiliated faculty member; Tufts Institute of the Environment.