

JAMES DOYLE WRIGHT - CURRICULUM VITAE

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Education

- 1991 Ph.D., Columbia University. Thesis title: Miocene stable isotopes: Implications for deepwater circulation, climate, and tectonics. R.G. Fairbanks, K.G. Miller, advisors.
- 1986 M.S., University of South Carolina. Thesis title: Neogene planktonic foraminiferal biogeography of the Indian Ocean. R.C. Thunell, advisor.
- 1984 B.S., Geology, Louisiana Tech University.
- 1982 B.S., Mathematics and Physics, Ouachita Baptist University.

Professional Experience

- 1998-present Assistant, Associate, and Full Professor, Department of Earth and Planetary Sciences, Rutgers University. Director, Stable isotope Laboratory.
- 1994-1998 Assistant Professor, Department of Geological Sciences and Institute for Quaternary Studies, University of Maine. Co-Director, Stable Isotope Laboratory, University of Maine.
- 1993-1994 Associate Research Scientist, Lamont-Doherty Earth Observatory.
- 1991-1993 Post-Doctoral Research Scientist, Lamont-Doherty Earth Observatory.

Research Interests

Paleoceanography, Paleoclimatology, Earth History, Stable Isotopes

Shipboard and Field Experience

- 2015 IODP Exp. 359, Shipboard Stratigraphic Correlator, Eberli and Betzler, Chief Scientists
- 2012 IODP Exp. 344S, Shipboard Sedimentologist, G. Acton, Chief Scientist.
- 2004 IODP Exp. 303 (North Atlantic I), Shipboard Sedimentologist, J. Channell, and T. Sato, Co-Chiefs.
- 2002 Co-Chief Scientist (with G. Mountain and P. Manley), Knorr 166-14, Coring, Seismics and Multibeam on the Gardar and Eirik Drifts.
- 1996 ODP Leg 166 (Bahamas Transect), Shipboard Micropaleontologist, G. Eberli & P. Swart, Co-Chiefs.
- 1992 Ewing 92-09 cruise, Seismic survey and giant piston coring of Ceara Rise, G.S. Mountain and W.B. Curry, Co-Chief Scientists.
- 1990 Atlantis II 125-08 cruise, giant piston coring in Gulf of California; R.C Thunell and L.D. Keigwin, Co-Chief Scientists.
- 1989 Atlantis II 124-01 cruise, planktonic foraminiferal micropaleontologist, ALVIN dive team; W.B.F. Ryan and K.G. Miller, Co-Chief Scientists.
- 1989 Atlantis II 120-2 cruise, planktonic foraminiferal micropaleontologist, W.B.F. Ryan and K.G. Miller, Co-Chief Scientists.
- 1984 Graduate field assistant, Louisiana Tech University.

Professional Service

- 2014 Panel Member National Science Foundation, Ocean Drilling Project
- 2002 Panel Member National Science Foundation, Marine Geology and Geophysics
- 2001 Panel Member National Science Foundation, Marine Geology and Geophysics

- 2001-2002 Editorial Advisor for the *Encyclopedia of Paleoclimatology* (R.W. Fairbridge & Michael R. Rampino, Series Editors), Kluwer Academic Publishers, Dordrecht, the Netherlands.
- 1997-1999 Member, Climate and Tectonics PPG –; Program Planning Group Committee for the Joint Oceanographic Institutions

University Service

- 2012-present Graduate Program Director, Department of Earth and Planetary Sciences
- 2012-present Physical Science GPD Curriculum Review Committee
- 2015 Greenburg Fellowship Review Committee, Rutgers University Climate Institute
- 2014-present Institute for Earth, Atmosphere, Ocean Sciences Graduate Committee
- 2014 Mid-Atlantic Regional Climate Symposium, Emcee, Rutgers Climate Institute
- 2012-2014 Post-Doctoral Committee, Institute of Marine and Coastal Sciences
- 2009 Chair of a University Grievance Committee
- 2003 Rutgers University Committee on Nominations

Professional Societies:

- Member, American Geophysical Union.
- Member, Geological Society of America.

Courses Taught

- Plate Tectonics (Undergraduate at UMaine)
- Historical Geology (Developed and taught at UMaine)
- Stable Isotopes in the Environment (Developed and taught at UMaine)
- Planet Earth (RU 01:460:100)
- Historical Geology (RU 01:460:102)
- Oceans and Continents (RU 01:460:212)
- Stratigraphy (RU 01:460:341)
- Marine Geology - UG and Grad (RU 01:460:451 and 16:460:541)
- Paleoceanography (RU 16:460:526)
- Stable Isotopes in the Paleo-Environment (Developed 16:840:501)

LIST OF PUBLICATIONS

94. Betzler, C., Eberli, G. P., Kroon, D., Wright, J. D., Swart, P. K., Nath, B. N., Alvarez-Zarikian, C. A., Alonso-García, M., Bialik, O. M., Blättler, C. L., Guo, J. A., Haffen, S., Horozal, S., Inoue, M., Jovane, L., Lanci, L., Laya, J. C., Mee, A. L. H., Lüdmann, T., Nakakuni, M., Niino, K., Petruny, L. M., Pratiwi, S. D., Reijmer, J. J. G., Reolid, J., Slagle, A. L., Sloss, C. R., Su, X., Yao, Z., and Young, J. R., 2016, The abrupt onset of the modern South Asian Monsoon winds: *Nature*, Scientific Reports, v. 6, p. 29838, doi:10.1038/srep29838
93. Abdul, N., Mortlock, R., Wright, J., and Fairbanks, R., 2016, Younger Dryas sea level and meltwater pulse 1B recorded in Barbados reef crest coral *Acropora palmata*: *Paleoceanography*, 31, 330-344, DOI: 10.1002/2015PA002847
92. Babila, T. L., Rosenthal, Y., Wright, J. D., and Miller, K. G., 2016, A continental shelf perspective of ocean acidification and temperature evolution during the Paleocene-Eocene Thermal Maximum: *Geology*, v. 44, no. 4, p. 275-278, doi: 10.1130/G37522.1.
91. Elmore, A., Wright, J., and Chalk, T., 2015, Precession-driven changes in Iceland–Scotland Overflow Water penetration and bottom water circulation on Gardar Drift since~ 200ka: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 440, p. 551-563, doi:10.1016/j.palaeo.2015.09.042.

90. Harmand, Sonia, Jason E. Lewis, Craig S. Feibel, Christopher J. Lepre, Sandrine Prat, Arnaud Lenoble, Xavier Boës, Rhonda L. Quinn, Michel Brenet, Adrian Arroyo, Nicholas Taylor, Sophie Clément, Guillaume Daver, Jean-Philip Brugal, Louise Leakey, Richard A. Mortlock, James D. Wright, Sammy Lokorodi, Christopher Kirwa, Dennis V. Kent, 3.3-million-year-old stone tools from Lomekwi 3, West Turkana, Kenya, *Nature* 05/2015; 521:310–315. DOI:10.1038/nature14464.
89. Schaller, M., JD Wright, DV Kent, 2015. A 30 million-year record of Late Triassic pCO₂ variation reflects fundamental control of the carbon-cycle by changes in continental weathering, *Geological Society of America Bulletin*; 127(5/6):661-671. DOI:10.1130/B31107.1.
88. Esmeray-Senlet, S, JD Wright, RK Olsson, KG Miller, JV Browning, TM Quan, 2015. Evidence for reduced export productivity following the Cretaceous/Paleogene mass extinction: Productivity after the K/Pg Boundary, *Paleoceanography* 05/2015; DOI:10.1002/2014PA002724.
87. Elmore, AC, JD Wright, J Southon, 2015. Continued meltwater influence on North Atlantic Deep Water instabilities during the early Holocene, *Marine Geology* 02/2015; 360:17-24. DOI:10.1016/j.margeo.2014.11.015.
86. Wright, JD, and MF Schaller, 2014. Reply to Pearson and Nicholas, Stassen et al., and Zeebe et al.: Teasing out the missing piece of the PETM puzzle. *Proceedings of the National Academy of Sciences*, 111, E1068-E1071.
85. Channell, JET, JD Wright, A Mazaud, JS Stoner, 2014. Age through tandem correlation of Quaternary relative paleointensity (RPI) and oxygen isotope data at IODP Site U1306 (Eirik Drift, SW Greenland), *Quaternary Science Reviews*, 88, 135-148, DOI: 10.1016/j.quascirev.2014.01.022.
84. Woodard, SC, Y. Rosenthal, KG. Miller, JD Wright, B K. Chiu, K T. Lawrence, 2014. Antarctic role in Northern Hemisphere glaciation. *Science*, 10.1126/science.1255586.
83. Wright, JD, and MF Schaller, 2013. New Evidence for a Rapid Release of Carbon at the Paleocene-Eocene Thermal Maximum, *Proceedings of the National Academy of Sciences*, 110, 15908–15913, doi: 10.1073/pnas.1309188110.
82. Quan, TM, JD Wright, and PG Falkowski, 2013. Co-variation of nitrogen isotopes and redox states through glacial–interglacial cycles in the Black Sea, *Geochimica et Cosmochimica Acta*, 112, 305-320, doi.org/10.1016/j.gca.2013.02.029.
81. Quinn, RL, CJ Lepre, CS Feibel, JD Wright, RA Mortlock, S Harmand, J-P Brugal, H Roche, 2013. Pedogenic carbonate stable isotopic evidence for wooded habitat preference of early Pleistocene tool makers in the Turkana Basin, *J. of Human Evolution*, 65, 65–78 <http://dx.doi.org/10.1016/j.jhevol.2013.04.002>.
80. Elmore, AC, S Sosdian, Y Rosenthal, JD Wright, 2012. A global evaluation of temperature and carbonate ion control on Mg/Ca ratios of ostracoda genus *Krithe*. *Geochemistry, Geophysics, Geosystems*, 13, 1-20. doi:10.1029/2012GC004073
79. Miller, KG, JD Wright, JV Browning, A Kulpecz, M Kominz, TR Naish, BS Cramer, Y Rosenthal, WR Peltier, S Sosdian, 2012. High tide of the warm Pliocene: Implications of global sea level for Antarctic deglaciation, *Geology*, 40, 407-410.
78. Schaller, MF, JD Wright, DV Kent, and PE Olsen, 2012, Rapid emplacement of the Central Atlantic Magmatic Province as a net sink for CO₂: *Earth and Planetary Science Letters*, 323-324, 27–39, doi: 10.1016/j.epsl.2011.12.028.
77. Wade, BS, AJP Houben, W Quaijtaal, S Schouten, Y Rosenthal, KG Miller, ME Katz, JD Wright, H Brinkhuis, 2012. Multiproxy record of abrupt sea-surface cooling across the Eocene-Oligocene transition in the Gulf of Mexico, *Geology*, 40, 159-162.
76. Yatsu, S, K Kunio, M Oba, ZQ Chen, J-G Casier, JD Wright Euxinic ocean during the Late Devonian mass extinction inferred from organic compounds, *Journal of Earth Science*

- 06/2012; 21(1). DOI:10.1007/s12583-010-0178.
75. Boulila, S, B Galbrun, KG Miller, SF Pekar, JV Browning, J Laskar, JD Wright, 2011. On the origin of Cenozoic and Mesozoic “third-order” eustatic sequences, *Earth-Science Reviews* 109(3-4):94-112. DOI:10.1016/j.earscirev.2011.09.003
 74. Cramer, B.S., K.G. Miller, P.J. Barrett, J.D. Wright, 2011. Late Cretaceous–Neogene trends in deep ocean temperature and continental ice volume: Reconciling records of benthic foraminiferal geochemistry ($\delta^{18}\text{O}$ and Mg/Ca) with sea level history, *JGR*, 116, C12023, 23 PP., doi:10.1029/2011JC007255.
 73. Elmore, AC, and JD Wright, 2011, North Atlantic Deep Water and climate variability during the Younger Dryas cold period, *Geology*, 39, 107–110, doi:10.1130/G31376.1.
 72. Elmore, A.C., A.M. Piotrowski, J.D. Wright, and A.E. Scriver, 2011. Testing the Extraction of Past Seawater Nd Isotopic Composition from North Atlantic Deep Sea Sediments and Foraminifera. *Geochemistry, Geophysics, Geosystems*. 12 (9); Q09008.
 71. Katz, M.E., B.S. Cramer, J.R. Toggweiler, G. Esmay, G. Liu, K.G. Miller, Y. Rosenthal., B.S. Wade, J.D. Wright, Impact of Antarctic Circumpolar Current Development on Late Paleogene Ocean Structure, *Science*, 332, 1076-1079.
 70. Miller, K.G., G.S. Mountain, J.D. Wright, and J.V. Browning. 2011. A 180-million-year record of sea level and ice volume variations from continental margin and deep-sea isotopic records. *Oceanography* 24(2):40–53, doi:10.5670/oceanog.2011.26.
 69. Oba, M, K Kaiho, T Okabe, MA. Lamolda, JD Wright, 2011. Short-term euxinia coinciding with rotaliporid extinctions during the Cenomanian-Turonian transition in the middle-neritic eastern North Atlantic inferred from organic compounds, *Geology* 39(6):519-522. DOI:10.1130/G31805.1
 68. Schaller, MF, JD Wright, DV Kent, 2011, Response to Comment on "Atmospheric pCO₂ Perturbations Associated with the Central Atlantic Magmatic Province": *Science*, v. 334, no. 6056, p. 594.
 67. Schaller, MF, JD Wright, DV Kent, 2011, Atmospheric pCO₂ perturbations associated with the Central Atlantic Magmatic Province, *Science*, 331, 1404.
 66. Harris, AD, KG Miller, JV Browning, PJ Sugarman, RK Olsson, BS Cramer, JD Wright, 2010. Integrated stratigraphic studies of Paleocene–lowermost Eocene sequences, New Jersey Coastal Plain: Evidence for glacioeustatic control, *Paleoceanography*, 25, 1-18, doi:10.1029/2009PA001800.
 65. Katz, ME, BS Cramer, A Franzese, B Hönisch, KG. Miller, Y. Rosenthal, and JD Wright, 2010. Traditional and emerging geochemical proxies in foraminifera, *The Journal of Foraminiferal Research*, 40, 165-190.
 64. Wright, J.D., Miller, K.G., Sheridan, R.E, Cramer, V., Uptegrove, J., and Browning, J. V., Late Pleistocene sea level on the U.S. Mid-Atlantic Margin: Implications to eustasy and deep-sea temperature, *Global and Planetary Change*, 66, 93-99.
 63. Browning, J.V., Miller, K.G., McLaughlin, P.P., Edwards, L.E., Powars, D.S., Kulpecz, A.A., Wade, B.S., Feigenson, M.D., and Wright, J.D., Integrated sequence stratigraphy of the post-impact sediments from the Eyreville coreholes, Chesapeake Bay impact structure inner basin: Chesapeake Bay Impact Structure, *GSA Special Paper*, 458, 775-810, 2009.
 62. Cramer, B. S., J. R. Toggweiler, J. D. Wright, M. E. Katz, and K. G. Miller, Ocean overturning since the Late Cretaceous: Inferences from a new benthic foraminiferal isotope compilation, *Paleoceanography*, 24, PA4216, 2009.
 61. McConnell, M. C., R. C. Thunell, L. Lorenzoni, Y. Astor, J. D. Wright, and R. Fairbanks, (2009), Seasonal variability in the salinity and oxygen isotopic composition of seawater from the Cariaco Basin, Venezuela: Implications for paleosalinity reconstructions, *Geochem. Geophys. Geosyst.*, 10, Q06019, doi:10.1029/2008GC002035
 60. Miller, K.G., Wright, J.D., Katz, M.E., Browning, J.V., Wade, B., and Rosenthal, Y., Climate

- threshold at the Eocene-Oligocene transition: Antarctic ice sheet influence on ocean circulation, *GSA Special Paper* (editors C. Koeberl and A. Montanari), 452, p. 169-178, 2008.
59. Mizintseva, S.F., J.V. Browning, K.G. Miller, R.K. Olsson, and J. D. Wright, 2009. Integrated Late Santonian-Early Campanian sequence stratigraphy, New Jersey Coastal Plain: Implications for global sea-level studies. *Stratigraphy*, 6, 45-60.
 58. Pusz, A., Miller, K.G., Wright, J.D., Katz, M.E., Cramer, B.S., and Kent, D.V., Stable Isotopic Response to Late Eocene Extraterrestrial Impacts, *GSA Special Publication*, 452, 83-95, 2009.
 57. Katz, M.E., Miller, K.G., Wright, J.D., Wade, B.S., Browning, J.V., Cramer, B.S., & Rosenthal, Y., Stepwise transition from the Eocene greenhouse to the Oligocene icehouse, *Nature Geoscience* 1, 329 – 334, 2008.
 56. Miller, K.G., Browning, J.V., Aubrey, M-P, Wade, B.S., Katz, M.E., Kulpesz, A.A., and Wright, J.D., Eocene–Oligocene global climate and sea-level changes: St. Stephens Quarry, Alabama, *GSA Bulletin* v. 120; no. 1-2; p. 34-53, 2008.
 55. Miller, K.G., Wright, J.D., Katz, M.E., Browning, J.V., Cramer, B.S., Wade, B.S., and Mizintseva, S.F., 2008, A view of Antarctic ice-sheet evolution from sea-level and deep-sea isotope changes during the Late Cretaceous-Cenozoic, in Cooper, A.K., Barrett, P.J., Stagg, H., Storey, B., Stump, E., Wise, W., and the 10th ISAES editorial team, eds., Antarctica: A keystone in a changing world: Proceedings of the 10th International Symposium on Antarctic Earth Sciences, Washington, DC, The National Academies Press, p. 55-70.
 54. Evans, H., JET Channell, JS Stoner, C Hillaire-Marcel, JD Wright, LC Neitzke, GS Mountain, Paleointensity-assisted chronostratigraphy of detrital layers on the Eirik Drift (North Atlantic) since marine isotope stage 11, *Geochemistry, Geophysics, Geosystems*, 8, Q11007, doi:10.1029/2007GC001720, 2007
 53. Liutkus, C.M. and J. D. Wright, The influence of hydrology and climate on the isotope geochemistry of playa carbonates: a study from Pilot Valley, NV, USA, *Sedimentology*, doi:10.1111/j.1365-3091.2007.
 52. Quinn RL, Lepre CJ, Wright JD, Feibel CS, Paleogeographic variations of pedogenic carbonate $\delta^{13}\text{C}$ values from Koobi Fora, Kenya: implications for floral compositions of Plio-Pleistocene hominin environments. *J Hum Evol.* Nov;53(5):560-73, 2007.
 51. James E. T. Channell, Tokiyuki Sato, Toshiya Kanamatsu, Rüdiger Stein, Mitchell Malone, Carlos Alvarez-Zarikian, S. Robinson, G. Bartoli, S. Chiyonobu, J. (Jed) E. Damuth, J. Heffer, S. Judge, D. Kulhanek, F. Nanayama, S. Nielsen, M. Ohno, H. Rashid, F. S. Sanchez, A. Voelker, Q. Zhai, 2006. IODP Expeditions 303 and 306 Monitor Miocene-Quaternary Climate in the North Atlantic, *Scientific Drilling* DOI:10.2204/iodp.sd.2.01.2006
 50. Finkel, Zoe V., Miriam E. Katz, James D. Wright, Oscar M. E. Schofield and Paul G. Falkowski, Climatically driven macroevolutionary patterns in the size of marine diatoms over the Cenozoic, *PNAS*, 102, 8927-8932, 2005.
 49. Katz, M.E., Wright, J.D., Miller, K.G., Cramer, B.S., Fennel, K., Falkowski, P., Biological Overprint of the Geological Carbon Cycle, *Marine Geology* 217, 323-338, 2005.
 48. Liutkus, C.L., Wright, J.D., Ashley, G., and Sikes, N., Paleoenvironmental interpretation of lake-margin deposits using $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ results from Pleistocene carbonate rootcasts; Olduvai Gorge, Tanzania, *Geology*, 33, 377–380, 2005.
 47. Miller, K. G., M. A. Kominz, J. V. Browning, J. D. Wright, G. S. Mountain, M. E. Katz, P. J. Sugarman, B. S. Cramer, N. Christie-Blick, and S. F. Pekar (2005), The Phanerozoic record of global sea- level change, *Science*, 310, 1293–1298, doi:10.1126/science. 1116412.
 46. Miller, K.G., Wright, J.D., and Browning, J.V., Visions of Ice Sheets in a Greenhouse World *Marine Geology*, 2005.

45. Van de Schootbrugge, B., Bailey, T.R., Rosenthal, Y., Katz, M.E., Wright, J.D., Feist-Burkhardt, S., Miller, K.G., and Falkowski, P.G., Early Jurassic climate change and the radiation of organic-walled phytoplankton in the Tethys Ocean. *Paleobiology*, 31, 73-97.
44. van de Schootbrugge, B.; McArthur, J. M.; Bailey, T. R.; Rosenthal, Y.; Wright, J. D.; Miller, K. G., Toarcian oceanic anoxic event: An assessment of global causes using belemnite C isotope records, *Paleoceanography*, 20, No. 3, 2005.
43. Cramer, B., Wright, J.D., Kent, D.V., Aubry., M.-P., Orbital climate forcing of $\delta^{13}\text{C}$ excursions in the late Paleocene-early Eocene (Chronos C24n-C25n), *Paleoceanography*, 18, 1097.
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41. Kent, D V, Cramer, B S, Lanci, L, Wang, D, Wright, J D, and Van Der Voo, R, Evidence For A Comet Impact Trigger For The Paleocene/Eocene Thermal Maximum And Carbon Isotope Excursion, *Earth and Planetary Science Letters*, 211/1-2 13 – 26, 2003.
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35. Wright, J.D., Paleo-oceanography: Cenozoic Climate - Oxygen Isotope Evidence, in *Encyclopedia of Ocean Sciences*, J.Steele, S.Thorpe, K.Turekian (Eds.) Academic Press, 2001.
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- cyclusity patterns of Great Bahama Bank carbonate production, in Proc. of the ODP, vol. 166, Scientific Results, 155-166.
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 21. Miller, K.G., Mountain, G.S., Browning, J.V., Kominz, M., Sugarman, P.J., Christie-Blick, N., Katz, M.E., and Wright, J.D., Cenozoic global sea-level, sequences, and the New Jersey Transect: Results from Coastal Plain and Slope Drilling, *Reviews of Geophysics*, 36, 569-601, 1998.
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