January 2024

Michael Foote
University of Chicago

Professor, Geophysical Sciences, Committee on Evolutionary Biology, and the College

Born: June 7, 1963, West Islip, New York
A.B.: 1985, Geological Sciences, Harvard University
S.M.: 1988, Evolutionary Biology, University of Chicago
Ph.D.: 1989, Evolutionary Biology, University of Chicago

Principal Professional Positions

2022	Interim Chair, Department of the Geophysical Sciences
2018-	Louis Block Distinguished Service Professor
2016-2021	Deputy Dean for Academic Affairs, Physical Sciences Division
2006-15	Chair, Department of the Geophysical Sciences
2003-06	Master, Physical Sciences Collegiate Division Associate Dean, Physical Sciences Division and the College
1994-	Associate Professor (1994-2000) and Professor, Geophysical Sciences, The Committee on Evolutionary Biology, The Committee on Conceptual and Historical Studies of Science (2004-2012), and the College
1990-1994	Assistant Curator, Museum of Paleontology and Assistant Professor, Geological Sciences, University of Michigan
1989-1990	Assistant Professor, Biology, Wake Forest University

Other Professional Positions

1996-	Research Associate, Geology, Field Museum of Natural History

Honors and Awards (selected)

2016	Arthur L. Kelly Faculty Prize for Exceptional Service in the Physical Sciences Division
2005-	Fellow of the Paleontological Society
2000	Charles Schuchert Award of the Paleontological Society
1985-88	National Science Foundation Graduate Fellowship

Research Grants (selected)
National Aeronautics and Space Administration: 2010-15
National Science Foundation: 1992-99, 2001-2005

Departmental Activities (selected)
2023- Director of Graduate Studies

University Activities (selected)
2017-2020 Council of the University Senate

Other Professional Activities (selected)

2018-2020 Member NAS committee to produce decadal report for NSF-EAR
2013-16 Chair, Committee of Fellows, Paleontological Society
2011 NSF Panel (Directorate for Biological Sciences)
2005-06 Steering Committee, Paleobiology Database (PBDB), National Center for Ecological Analysis and Synthesis
2005-07 Co-instructor, PBDB-sponsored short course in analytical paleobiology
2004-2008 Editorial Committee, *Annual Review of Ecology, Evolution, and Systematics*
2004 NSF Panel (Graduate Fellowships in Geosciences)
2001-2003 Associate Editor, *Evolution*
1998-2006 Advisory Board, Paleobiology Database, National Center for Ecological Analysis and Synthesis

Courses Regularly Taught

Mathematical modeling (graduate)
Multivariate data analysis (graduate)
Earth history (undergraduate)

Graduate Students Supervised

Lisa L. Churchill (M.S. 1994, U.Mich.), Selectivity in trilobite extinction
Hallie J. Sims (M.S. 1996; Ph.D. 2000, co-advised with Peter R. Crane), Evolution of seed plants
Melinda S. Brady (Ph.D. 2000, co-advised with Peter R. Crane), Angiosperm development and evolution
S. Kathleen Lyons (Ph.D. 2001), Evolution of Pleistocene communities
Shanan E. Peters (Ph.D. 2003), Evolution of early Paleozoic communities
Gene Hunt (Ph.D. 2003), Covariance structure and morphological evolution in ostracodes
Carl Simpson (Ph.D. 2006), Mechanisms of evolutionary trends in camerate crinoids
Emily King (M.S. 2011), Models of morphological diversification
David Bapst (Ph.D. 2013), Analyzing evolutionary trees in the fossil record
Peter Smits (Ph.D. 2017, co-advised with Ken Angielczyk), Thesis: Remodeling the fossil record: Analysis of emergent evolutionary and ecological patterns
Marites Villarosa Garcia (Ph.D. 2017, co-advised with C. Kevin Boyce), Thesis: The morphological diversity of coccolithophores across environments, geographic space, and geologic time
Nadia Pierrehumbert (M.S. 2017), Thesis: Evaluating taphonomic and taxonomic bias in studies of paleocommunity dissimilarity
Sapon Chupongstimun (Ph.D. in progress)

Postdoctoral Scholars

Sylvain Gerber (co-advised with Mark Webster)
Kathleen A. Ritterbush
Sora Kim (co-advised with Albert Colman)

Undergraduates

Bruno Petrucci, B.S. 2020, Applied Mathematics: "PaleoBuddy: Simulating Diversity Dynamics in R"

Press Coverage

The Onion, 23 October 2007: "Scientists Theorize What Would Happen If They Touched A Cloud" [https://www.theonion.com/scientists-theorize-what-would-happen-if-they-touched-a-1819569411]

Bibliography

Books and Reports

1. Foote, M., and A. I. Miller. 2007. Principles of Paleontology, Third edition. W. H. Freeman, New York.
2. National Academies of Science, Engineering, and Medicine. 2020. A vision for NSF Earth Sciences 2020-2030: Earth in Time. National Academies Press, Washington, D.C.

Research Articles

1. Foote, M. 1988. Survivorship analysis of Cambrian and Ordovician trilobites. Paleobiology 14:258-271.
2. Foote, M. and R. H. Cowie. 1988. Developmental buffering as a mechanism for stasis: evidence from the pulmonate *Theba pisana*. Evolution 42:396-399.
3. Foote, M. 1989. Perimeter-based Fourier analysis: a new morphometric method applied to the trilobite cranidium. Journal of Paleontology 63:880-885.
4. Foote, M. 1990. Nearest-neighbor analysis of trilobite morphospace. Systematic Zoology 39:371-382.
5. Foote, M. 1991. Morphologic patterns of diversification: examples from trilobites. Palaeontology 34:461-485.
6. Foote, M. 1991. Morphologic and taxonomic diversity in a clade's history: the blastoid record and stochastic simulations. Contributions from the Museum of Paleontology, University of Michigan 28:101-140.
7. Foote, M. 1991. Analysis of morphological data. Pp. 59-86 in N. L. Gilinsky and P. W. Signor (eds.), Analytical Paleobiology (Short Courses in Paleontology, Number 4). University of Tennessee, Knoxville.
8. Foote, M. 1992. Rarefaction analysis of morphological and taxonomic diversity. Paleobiology, 18:1-16.
9. Foote, M. 1992. Paleozoic record of morphological diversity in blastozoan echinoderms. Proceedings, National Academy of Sciences, U.S.A. 89: 7325-7329.
10. Foote, M., and S. J. Gould. 1992. Cambrian and Recent morphological disparity. Science 258:1816.
11. Foote, M. 1993. Discordance and concordance between morphological and taxonomic diversity. Paleobiology 19:185-204.
12. Foote, M. 1993. Contributions of individual taxa to overall morphological disparity. Paleobiology 19:403-419.
13. Foote, M. 1993. Human cranial variability: a methodological comment. American Journal of Physical Anthropology 90:377-379.
14. Foote, M. 1993. A specimen of *Timoroblastus coronatus* Wanner (Blastoidea: Fissiculata; Permian) with inverted basals. Journal of Paleontology 67: 681-682.
15. Foote, M. 1994. Morphological disparity in Ordovician-Devonian crinoids and the early saturation of morphological space. Paleobiology 20: 320-344.
16. Foote, M. 1994. Morphology of Ordovician-Devonian crinoids. Contributions from the Museum of Paleontology, University of Michigan 29:1-39.
17. Foote, M. 1994. Temporal variation in extinction risk and temporal scaling of extinction metrics. Paleobiology 20:424-444.
18. Foote, M. 1995. Morphological diversification of Paleozoic crinoids. Paleobiology 21:273-299.
19. Foote, M. 1995. Morphology of Carboniferous and Permian crinoids. Contributions from the Museum of Paleontology, University of Michigan 29:135-184.
20. Foote, M. 1996. Perspective: Evolutionary patterns in the fossil record. Evolution 50:1-11.
21. Foote, M., and D. M. Raup. 1996. Fossil preservation and the stratigraphic ranges of taxa. Paleobiology 22:121-140.

22. Foote, M. 1996. On the probability of ancestors in the fossil record. Paleobiology 22:141-151.
23. Miller, A.I. and M. Foote. 1996. Calibrating the Ordovician radiation of marine life: implications for Phanerozoic diversity trends. Paleobiology 22:304-309.
24. Foote, M. 1996. Models of morphological diversification. Pp. 62-86 in D. Jablonski, D. H. Erwin, and J.H. Lipps, eds. Evolutionary paleobiology. University of Chicago Press, Chicago.
25. Foote, M. 1996. Ecological controls on the evolutionary recovery of post-Paleozoic crinoids. Science 274:1492-1495.
26. Foote, M. 1997. Sampling, taxonomic description, and our evolving knowledge of morphological diversity. Paleobiology 23:181-206.
27. Roy, K., and M. Foote. 1997 Morphological approaches to measuring biodiversity. Trends in Ecology and Evolution 12:277-281.
28. Foote, M., and K. Roy. 1997. Descriptive and predictive approaches to biodiversity measurement [Reply]. Trends in Ecology and Evolution 12:444.
29. Foote, M. 1997. Estimating taxonomic durations and preservation probability. Paleobiology 23:278-300.
30. Foote, M. 1997. The evolution of morphological diversity. Annual Review of Ecology and Systematics 28:129-152.
31. Foote, M., J. P. Hunter, C. M. Janis, and J. J. Sepkoski, Jr. 1999. Evolutionary and preservational constraints on origins of biologic groups: divergence times of eutherian mammals. Science 283:1310-1314.
32. Foote, M., J. P. Hunter, C. M. Janis, and J. J. Sepkoski, Jr. 1999. Origin of eutherian mammals [reply]. Science 285:2031a.
33. Foote, M., and J. J. Sepkoski, Jr. 1999. Absolute measures of the completeness of the fossil record. Nature 398:415-417.
34. Foote, M. 1999. Morphological diversity in the evolutionary radiation of Paleozoic and post-Paleozoic crinoids. Paleobiology Memoir 1 (supplement to vol. 25, no. 2), 115 pp.
35. Foote, M. 2000. Origination and extinction components of taxonomic diversity: general problems. Paleobiology 26 (supplement to No. 4): 74-102.
36. Foote, M. 2000. Origination and extinction components of taxonomic diversity: Paleozoic and post-Paleozoic dynamics. Paleobiology 26:578-605.
37. Foote, M. 2001. Estimating the completeness of the fossil record. Pp. 504-507 in D. E. G. Briggs and P. R. Crowther, eds. Paleobiology II. Blackwell Scientific, Oxford.
38. Foote, M. 2001. Evolutionary rates and the age distributions of living and extinct taxa. Pp. 245-294 in J. B. C. Jackson, S. Lidgard, and F. K. McKinney, eds. Evolutionary patterns: growth form and tempo in the fossil record. University of Chicago Press, Chicago.
39. Alroy, J., C.R. Marshall, R.K. Bambach, K. Bezusko, M. Foote, F.T. Fürsich, T.A. Hansen, S.M. Holland, L.C. Ivany, D. Jablonski, D.K. Jacobs, D.C. Jones, M.A. Kosnik, S. Lidgard, S. Low, A.I. Miller, P.M. Novack-Gottshall, T.D. Olszewski, M.E. Patzkowsky, D.M. Raup, K. Roy, J.J. Sepkoski Jr., M.G. Sommers, P.J. Wagner, and A. Webber. 2001. Effects of sampling standardization on estimates of Phanerozoic marine diversification. Proceedings of the National Academy of Sciences, USA 98:6261-6266.
40. Peters, S.E., and M. Foote. 2001. Biodiversity in the Phanerozoic: a reinterpretation. Paleobiology 27:583-601.
41. Foote, M. 2001. Inferring temporal patterns of preservation, origination, and extinction from taxonomic survivorship analysis. Paleobiology 27:602-630.
42. Peters, S.E., and M. Foote. 2002. Determinants of extinction in the fossil record. Nature 416:420-424.
43. Fisher, D.C., M. Foote, D. L. Fox, and L. R. Leighton. 2002. Stratigraphy in phylogeny reconstruction—comment on Smith (2000). Journal of Paleontology 76:585-586.

44. Foote, M. 2003. Origination and extinction through the Phanerozoic: a new approach. Journal of Geology 111:125-148.
45. Miller, A. I., and M. Foote. 2003. Increased longevities of post-Paleozoic marine genera after mass extinctions. Science 302:1030-1032.
46. Foote, M. 2005. Pulsed origination and extinction in the marine realm. Paleobiology 31:6-20.
47. Crampton, J.S., M. Foote, A.G. Beu, R. A. Cooper, I. Matcham, C. M. Jones, P.A. Maxwell, and B.A. Marshall. 2006. Second-order sequence stratigraphic controls on the quality of the fossil record at an active margin: New Zealand Eocene to Recent shelf molluscs. Palaios 21:86-105.
48. Foote, M. 2006. Substrate affinity and diversity dynamics of Paleozoic marine animals. Paleobiology 32:345-366.
49. Crampton, J.S., M. Foote, A. G. Beu, P.A. Maxwell, R.A. Cooper, I. Matcham, B. A. Marshall, and C.M. Jones. 2006. The ark was full! Constant to declining Cenozoic shallow marine biodiversity on an isolated mid-latitude continent. Paleobiology 32:509-532.
50. Foote, M. 2007. Extinction and quiescence in marine animal genera. Paleobiology 33:262-273.
51. Foote, M. 2007. Symmetric waxing and waning of marine invertebrate genera. Paleobiology 33:517-529.
52. Foote, M., J.S. Crampton, A.G. Beu, B.A. Marshall, R.A. Cooper, P. A. Maxwell, and I. Matcham. 2007. Rise and fall of species occupancy in Cenozoic marine molluscs. Science 318:1131-1134.
53. Alroy, J., M. Aberhan, D. J. Bottjer, M. Foote, F. T. Fürsich, and 30 others. 2008. Phanerozoic trends in the global diversity of marine invertebrates. Science 321:97-100.
54. Foote, M., J. S. Crampton, A. G. Beu, and R. A. Cooper. 2008. On the bidirectional relationship between geographic range and taxonomic duration. Paleobiology 34:421-433.
55. Miller, A. I., and M. Foote. 2009. Epicontinental seas versus open-ocean settings: the kinetics of mass extinction and origination. Science 326:1106-1109.
56. Kiessling, W., C. Simpson, and M. Foote. 2010. Reefs as cradles of evolution and sources of biodiversity in the Phanerozoic. Science 327:196-198.
57. Crampton, J.S., R. A. Cooper, A.G. Beu, M. Foote, and B.A. Marshall. 2010. Factors that influence species duration—interactions between traits in marine molluscs. Paleobiology 36:204-223.
58. Foote, M. 2010. The geologic history of biodiversity. Pp. 479-510 in M. A. Bell, D. J. Futuyma, W. F. Eanes and J. S. Levinton, eds. Evolution since Darwin: The First 150 Years. Sinauer Associates, Sunderland, MA.
59. Crampton, J.S., M. Foote, R. A. Cooper, A. S. Beu, and S. E. Peters. 2011. The fossil record and spatial structuring of environments and biodiversity in the Cenozoic of New Zealand. Geological Society of London Special Publication 358:105-122.
60. Foote, M. 2012. Evolutionary dynamics of taxonomic structure. Biology Letters 8:135-138.
61. Foote, M., and A. I. Miller. 2013. Determinants of early survival in marine animal genera. Paleobiology 39:171-192.
62. Foote, M. 2014. Environmental controls on geographic range size in marine animal genera. Paleobiology 40:440-458.
63. Foote, M., J. S. Crampton, A. G. Beu, and C. S. Nelson. 2015. Aragonite bias, and lack of bias, in the fossil record: lithological, environmental, and ecological controls. Paleobiology 41:245-265.
64. Crampton, J. S., R. A. Cooper, P. M. Sadler, and M. Foote. 2016. Greenhouse-icehouse transition in the Late Ordovician marks a step change in extinction regime in the marine plankton. Proceedings of the National Academy of Sciences, USA 113:1498-1503.
65. Foote, M., K. A. Ritterbush, and A. I. Miller. 2016. Geographic ranges of genera and their constituent species: structure, evolutionary dynamics, and extinction resistance. Paleobiology 42:269-288.
66. Foote, M. 2016. On the measurement of occupancy in ecology and paleontology. Paleobiology 42:707-729.

67. Ritterbush, K. A., and M. Foote. 2017. Association between geographic range and initial survival of Mesozoic marine animal genera: circumventing the confounding effects of temporal and taxonomic heterogeneity. Paleobiology 43:209-223.
68. Foote, M., R. A. Cooper, J. S. Crampton, and P. M. Sadler. 2018. Diversity-dependent evolutionary rates in early Paleozoic zooplankton. Proceedings of the Royal Society B 285:20180122.
69. Crampton, J. S., S. R. Meyers, R. A. Cooper, P. M. Sadler, M. Foote, and D. Harte. 2018. Pacing of Paleozoic macroevolutionary rates by Milankovitch grand cycles. Proceedings of the National Academy of Sciences, USA 115:5686-5691.
70. Foote, M., P. M. Sadler, R. A. Cooper, and J. S. Crampton. 2019. Completeness of the known graptoloid palaeontological record. Journal of the Geological Society of London 176:1038-1055.
71. Crampton, J. S., R. A. Cooper, M. Foote, and P. M. Sadler. 2020. Ephemeral species in the fossil record? Synchronous coupling of macroevolutionary dynamics in mid-Paleozoic zooplankton. Paleobiology 46:123-135.
72. Foote, M. 2022. Data and code from: Diversity-dependent diversification in the history of marine animals. American Naturalist, Dryad Digital Repository, https://doi.org/10.5061/dryad.02v6wwq6d.
73. Foote, M. 2023. Diversity-dependent diversification in the history of marine animals. American Naturalist 201:680-693.
74. Foote, M.. S. M. Edie, and D. Jablonski. 2023. Supplementary material from "Ecological structure of diversity-dependent diversification in Phanerozoic marine bivalves." Figshare (doi:10.6084/m9.figshare.c.6996723).
75. Foote, M., S. M. Edie, and D. Jablonski. 2024. Ecological structure of diversity-dependent diversification in Phanerozoic marine bivalves. Biology Letters 20:20230475.

Other publications (notes, reviews, popular articles, etc.)

1. Foote, M. 1993. Speciation in the fossil record. American Paleontologist 1(2):9-12.
2. Foote, M. 1994. [review of "Paleobiology of Climactichnites, an Enigmatic Late Cambrian Fossil," by E. L. Yochelson and M. A. Fedonkin.] Quarterly Review of Biology 69:394-395.
3. Foote, M. 1998. Contingency and convergence. Science 280:2068-2069.
4. Foote, M. 1998. Biodiversity. McGraw-Hill Yearbook of Science and Technology 1999:56-58.
5. Foote, M., and J. A. Hopson. 1999. J. John Sepkoski Jr. (1948-1999): In memoriam. Acta Palaeontologica Polonica 44:235-236.
6. Foote, M. 2000. Addendum to "Crustacean biodiversity through the marine fossil record" by J. John Sepkoski, Jr. Contributions to Zoology 69:221-222.
7. Foote, M. 2001. Response [to Schuchert Award citation]. Journal of Paleontology 75:924-925.
8. Jablonski, D., and M. Foote, eds. 2002. A Compendium of fossil marine animal genera by J. J. Sepkoski, Jr. Bulletins of American Paleontology 363:1-560.
9. Foote, M., and D. Jablonski. 2002. Introduction [to A Compendium of fossil marine animal genera by J. J. Sepkoski, Jr.]. Bulletins of American Paleontology 363:5-9.
10. Foote, M. 2004. The inside view from outsiders [review of *Modeling Extinction* by. M. E. J. Newman and R. G. Palmer]. Conservation Biology 18:857-858.
11. Foote, M. 2012. Presentation of the 2011 Charles Schuchert Award of the Paleontological Society to C. Kevin Boyce. Journal of Paleontology 86:395-398.
12. Foote, M. 2014. Commentary [on "Background and mass extinctions: the alternation of macroevolutionary regimes," by D. Jablonski]. Pp. 361-362 in F. A. Smith, J. L. Gittleman, and J. H. Brown, eds. Foundations of macroecology. University of Chicago Press.
13. Foote, M. 2015. David M. Raup, 1933-2015. Proceedings of the National Academy of Sciences, USA 112:15002-15003.
14. Foote, M., and A. I. Miller. 2016. The contributions of David Malcolm Raup (24 April 1933–9 July 2015). Paleobiology 42:172-183.

15. Foote, M., and A. I. Miller. 2017. David M. Raup: A Biographical Memoir. National Academy of Sciences (http://www.nasonline.org/publications/biographical-memoirs/memoir-pdfs/raup-david.pdf).
16. Foote, M. 2017. Presentation of the 2014 Charles Schuchert Award of the Paleontological Society to Shanan E. Peters. Journal of Paleontology 91:1326-1327.
17. Foote, M. 2018. Presentation of the 2017 Paleontological Society Medal to David Jablonski. Journal of Paleontology 92:944-945.
18. Foote, M. 2019. Commentary [on "Patterns of taxonomic and ecological structure of the shelf benthos during Phanerozoic time," by J. W. Valentine]. Pp. 278-279 in S. K. Lyons. A. K. Behrensmeyer, and P. J. Wagner, eds. Foundations of paleoecology. University of Chicago Press.

Abstracts

1. Williamson, P.G. and M. Foote. 1984. Global selection patterns in the prosobranch *Melanoides tuberculata*: implications for stasis and speciation. Geological Society of America Abstracts with Programs 16:695-696.
2. Foote, M. 1987. Survivorship analysis of Cambrian and Ordovician trilobite genera: evidence for significant differences in turnover rates. Geological Society of America Abstracts with Programs 19:666.
3. Foote, M. 1988. Changing patterns of morphospace occupation among Cambrian and Ordovician trilobites. Geological Society of America Abstracts with Programs 20:A46.
4. Foote, M. 1989. Taxon-free analysis of trilobite morphospace. Geological Society of America Abstracts with Programs 21:A288.
5. Foote, M. 1990. Morphologic versus taxonomic diversity in a clade's history. Geological Society of America Abstracts with Programs 22:A266.
6. Foote, M. 1992. Early morphological diversity in blastozoan echinoderms. Fifth North American Paleontological Convention, Abstracts and Program, p. 102.
7. Foote, M. 1992. Detecting morphological selectivity in trilobite extinction: a comparison of taxonomic and morphological diversity patterns. Geological Society of America Abstracts with Programs 24:A45.
8. Foote, M. 1993. Morphological disparity in Ordovician through Devonian crinoids. Geological Society of America Abstracts with Programs 25:A103-A104.
9. Swiderski, D. L., M. Foote, and B. E. Bodenbender. 1993. Integrated shape change in elliptical globose blastoids. American Zoologist 33(5):71A.
10. Foote, M. 1994. How (not) to measure taxonomic extinction intensity. Geological Society of America Abstracts with Programs 26:A396.
11. Foote, M., and D. M. Raup 1995. Inferring taxonomic durations and preservation probability from the stratigraphic ranges of fossil taxa. Geological Society of America Abstracts with Programs 27:A372.
12. Miller, A. I., and M. Foote. 1995. Calibrating the Ordovician radiation: implications for Phanerozoic diversity trends. Geological Society of America Abstracts with Programs 27:A53.
13. Foote, M. 1996. Morphological diversification of Mesozoic crinoids. Sixth North American Paleontological Convention Abstracts of Papers, p. 124.
14. Foote, M. 1997. Age distributions of living and extinct taxa. Geological Society of America Abstracts with Programs 29:A168.
15. Foote, M., J. J. Sepkoski, Jr., C. M. Janis, and J. P. Hunter. 1998. Evolutionary and preservational constraints on the timing of clade origins. Geological Society of America Abstracts with Programs 30: A326.
16. Sepkoski, J. J., Jr., and M. Foote. 1998. Paleontologic databases, taxonomic literature, and tests of consistency. Geological Society of America Abstracts with Programs 30: A264.

17. Marshall, C. R., J. Alroy, and the NCEAS Phanerozoic Diversity Working Group. 1999. Towards a sample-standardized Phanerozoic diversity curve. Geological Society of America Abstracts with Programs 31:A336.
18. Foote, M. 1999. Relative importance of origination and extinction in Paleozoic and post-Paleozoic diversity dynamics. Geological Society of America Abstracts with Programs 31:A397.
19. Foote, M. 2000. Rates of taxonomic evolution through the Phanerozoic. Geological Society of America Abstracts with Programs 32:A445.
20. Marshall, C.R. and the NCEAS Phanerozoic Diversity Working Group. 2000. Towards a sample standardized Phanerozoic diversity curve: comparing the Sepkoski and NCEAS databases. Geological Society of America Abstracts with Programs 32:A131.
21. Peters, S.E., and M. Foote. 2001. Large-scale heterogeneity in the stratigraphic record: a significant source of bias in global diversity estimates. PaleoBios 21(Suppl. to No. 2):102-103.
22. Foote, M. 2003. Evaluating discordances between molecular and paleontological divergence times. Abstracts, 2003 Meeting of the Botanical Society of America, p. 6.
23. Foote, M. 2003. Recalibrating Phanerozoic diversity using taxonomic rates. Geological Society of America Abstracts with Programs 34(7):416.
24. Foote, M. 2004. Substrate affinity and diversity dynamics in benthic marine animals. Geological Society of America Abstracts with Programs 36(5):457.
25. Alroy, J., M. Aberhan, D.J. Bottjer, M. Foote, F. Fürsich, L.C. Ivany, W. Kiessling, C.R. Marshall, A.I. Miller, and M.E. Patzkowsky. 2004. Improved estimates of Phanerozoic marine diversity. Geological Society of America Abstracts with Programs 36(5):456.
26. Peters, S.E. and M. Foote. 2006. Carbonates, silicilastics and the evolution of faunal composition. Second International Paleontological Congress Proceedings, Beijing.
27. Foote, M. 2006. Two populations of Phanerozoic extinction events. Geological Society of America Abstracts with Programs 38(7):170.
28. Foote, M., J.S. Crampton, A.G. Beu, B.A. Marshall, R.A. Cooper, and I. Matcham. 2007. King for a day: Rise and fall of site occupancy and geographic range in molluscan species and genera. Geological Society of America Abstracts with Programs 39(6):91.
29. Foote, M. J. S. Crampton, A. G. Beu, and R. A. Cooper. 2009. Evolution of geographic range within species and genera. NAPC 2009 Abstracts.
30. Crampton, J. S., R. A. Cooper, A. G. Beu, and M. Foote. 2009. The long and short of it: controls on species longevity in marine molluscs. NAPC 2009 Abstracts.
31. Miller, A. I., and M. Foote. 2009. Epicontinental seas versus ocean-facing settings: fundamental differences in the kinetics of origination and mass extinction. NAPC 2009 Abstracts.
32. Crampton, J. S., A. G. Beu, R. A. Cooper, and M. Foote. 2010. Diversity dynamics of endemic mollusks on a mobile margin: sorting the actual from the apparent. Third International Palaeontological Congress Abstracts: p. 132.
33. Foote, M. 2010. Evolutionary dynamics of genus size-frequency distributions. Geological Society of America Abstracts with Programs 42(5):140.
34. Miller, A. I., and M. Foote. 2011. Epicontinental seas versus ocean-facing settings: the kinetics of origination and extinction during the Paleozoic Era. Geological Society of America Abstracts with Programs 43(5):541.
35. Foote, M., and A. I. Miller. 2011. Geographic range and species richness of post-Paleozoic marine animal genera originating in recoveries from mass extinctions. Geological Society of America Abstracts with Programs 43(5):542.
36. Foote, M., and A. I. Miller. 2012. Determinants of early survival in marine animal genera. Geological Society of America Abstracts with Programs 44(7):184.
37. Foote, M. 2013. Environmental controls on rates of geographic range fluctuation in marine animal genera. Geological Society of America Abstracts with Programs 45(7):86.

38. Miller, A. I., and M. Foote. 2013. Comparative longevities of marine genera and their constituent species after mass extinctions: the whole does not necessarily reflect its parts. Geological Society of America Abstracts with Programs 45(7):94.
39. Miller, A. I., and M. Foote. 2014. Proxies revisited: the relationship between genera and species in the study of Phanerozoic diversity. Geological Society of America Abstracts with Programs 46(6):366.
40. Foote, M., K. A. Ritterbush, and A. I. Miller. 2014. Dynamics of geographic range within marine animal genera: relative importance of species range and number of species. Geological Society of America Abstracts with Programs 46(6):366.
42. Ritterbush, K. A., M. Foote, and A. I. Miller. 2014. Influence of geographic range on taxonomic survivorship: comparison of analyses at different hierarchical levels. Geological Society of America Abstracts with Programs 46(6):752.
43. Foote, M., K. A. Ritterbush, and A. I. Miller. 2015. Hierarchical decomposition of geographic range and its implications for understanding extinction resistance in marine animal genera. Geological Society of America Abstracts with Programs 47(6):paper 78-8.
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