

# MICHAEL J. O'BRIEN

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## PROFESSIONAL EXPERIENCE

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2021–	Professor of History and Life Sciences   Texas A&M–San Antonio
2016–2021	Provost   Texas A&M – San Antonio
2006–2016	Dean of the College of Arts and Science   University of Missouri
1986–2006	Associate Dean of the College of Arts and Science   University of Missouri
1989–2016	Professor of Anthropology   University of Missouri
1989–2016	Director of the Museum of Anthropology   University of Missouri
1989–1993	Research Collaborator, Department of Anthropology   Smithsonian Institution
1985–1989	Associate Professor, Department of Anthropology   University of Missouri
1980–1985	Assistant Professor, Department of Anthropology   University of Missouri
1977–1980	Research Associate, Department of Anthropology   University of Nebraska

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## PROFESSIONAL OFFICES

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1986–1989	Associate Editor, <i>American Antiquity</i>
1985–1989	Editor, <i>American Archaeology</i>
1983–2006	Editor, <i>Missouri Archaeological Society Quarterly</i>
1993–1997	Board of Directors, Missouri Museums Association
1989–1986	Board of Directors, Missouri Association of Professional Archaeologists
1983–1986	President, Missouri Association of Professional Archaeologists
1980–2006	Secretary, Missouri Archaeological Society
1997–2012	Editorial Board, <i>Review of Archaeology</i>

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## PUBLICATIONS

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| 2024 | <ul style="list-style-type: none"><li>▪ On the multiscale dynamics of punctuated evolution. In <i>Trends in Ecology &amp; Evolution</i> 39: 734–744. (S. Duran-Nebrada, R. A. Bentley, B. Vidiella, A. Spiridonov, N. Eldredge, M. J. O'Brien, and S. Valverde)</li><li>▪ Cultural evolution as inheritance, not intentions. <i>Antiquity</i> <span style="background-color: yellow;">    </span>. (R. A. Bentley and M.J. O'Brien).</li></ul> |
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- Modelling cultural responses to disease spread in Neolithic Trypillia mega-settlements. *Journal of the Royal Society Interface* : \_\_\_\_\_. (R. A. Bentley, S. Carrignon, B. Gaydarska, J. Chapman, B. Buchanan, and M. J. O'Brien)
  - OpenAI ChatGPT and the accelerated spread of biased information. In *Intelligent Sustainable Systems*, edited by A. K. Nagar, D. S. Jat, D. Mishra, and A. Joshi, pp. 11–20. Singapore: Springer. (I. Alsmadi, M. J. O'Brien, and M. Tuba)
  - Punctuated equilibrium at 50: Anything there for evolutionary anthropology? Yes; definitely. *Evolutionary Anthropology* 33: 1–14. (M. J. O'Brien, S. Valverdi, S. Duran-Nebreda, B. Vidiella, and R. A. Bentley)
  - OpenAI ChatGPT and biased information in higher education. In *Empowering Digital Education with ChatGPT: From Theoretical to Practical Applications*, edited by M. Lahby, pp. XXX–XXX. New York: Routledge. (M. J. O'Brien, I. Alsmadi, R. A. Bentley, and M. Tuba)
  - The memory of crowds: The evolution of social learning and multilevel adaptive knowledge in early *Homo sapiens*. In *Interdisciplinary Perspectives and Advances in Understanding Adaptive Memory*, edited by M. Toglia, H. Otgaar, J. Altarriba, and W. B. Erickson. Oxford: Oxford University Press (in press). (M. J. O'Brien and R. A. Bentley)
- 2023
- Is disruption decreasing, or is it accelerating? *Advances in Complex Systems* 26: 2350006. (R. A. Bentley, S. Valverde, J. Borycz, B. Vidiella, B. D. Horne, S. Duran-Nebreda, and M. J. O'Brien)
  - The cultural contribution to evolvability. *PaleoAnthropology* 2023: 164–180. (K. N. Lala and M. J. O'Brien)
  - Culture and evolvability: A brief archaeological perspective. *Journal of Archaeological Method and Theory* 30: 1079–1108. (M. J. O'Brien and K. N. Lala)
  - Estimating two key dimensions of cultural transmission from archaeological data. *Journal of Anthropological Archaeology* 72: 101545. (S. Carrignon, R. A. Bentley, and M. J. O'Brien)
  - Cultural evolution, disinformation, and social division. *Adaptive Behavior* 32: doi/10.1177/10597123231186432. (R. A. Bentley, B. Horne, J. Borycz, S. Carrignon, G. Shteynberg, B. Vidiella, S. Valverde, and M. J. O'Brien)
  - Behavioral archaeology. In *Encyclopedia of Archaeology*, edited by T. Rehren and E. Nikita, pp. 184–203. New York: Elsevier. (M. J. O'Brien and M. B. Schiffer)
  - Relative dating: Stratigraphy and seriation. In *Encyclopedia of Archaeology*, edited by T. Rehren and E. Nikita. New York: Elsevier. doi.org/10.1016/B978-0-323-90799-6.00030-6.
  - Evolutionary archaeology. In *Oxford Handbook of Cultural Evolution*, edited by J. Tehrani, R. Kendal, and J. Kendal, pp. C8S1–C8P219. Oxford: Oxford University Press. <https://doi.org/10.1093/oxfordhb/9780198869252.013.8>

- On the evolution of limestone-tempered pottery in the American Midwest: An experimental assessment of vessel weight and its relationship to other functional/mechanical properties. *Science and Technology of Archaeological Research* 9: e2160087. (A. Mika, M. I. Eren, R. S. Meindl, M. J. O'Brien, and M. R. Bebber)
  - Dilution of expertise in the rise and fall of collective innovation. *Nature Humanities & Social Sciences Communications* 9: 365 (doi.org/10.1057/s41599-022-01380-5). (S. Duran-Nebreda, M. J. O'Brien, R. A. Bentley, and S. Valverde)
- 2022
- A cultural evolutionary theory that explains both gradual and punctuated change. *Journal of the Royal Society Interface* 19: 20220570. (B. Vidiella, S. Carrignon, R. A. Bentley, M. J. O'Brien, and S. Valverde)
  - Fake or not? Automated detection of COVID-19 misinformation and disinformation in social networks and digital media. *Computational and Mathematical Organization Theory* (doi.org/10.1007/s10588-022-09369-w). (I. Alsmadi, N. M. Rice, and M. J. O'Brien)
  - Foreword. In *Defining and Measuring Diversity in Archaeology: Another Step Toward an Evolutionary Synthesis of Culture*, edited by M. I. Eren and B. Buchanan, pp. XX–XXXIV. New York: Berghahn. (M. J. O'Brien and D. H. Thomas)
  - Do copycats forecast a market collapse? Innovative products lead to a boom in imitation and often a bust—just look at Atari and Bitcoin. *The Conversation* December 15, 2022. (S. Duran-Nebreda, M. J. O'Brien, R. A. Bentley, and S. Valverde)
- 2021
- The extended evolutionary synthesis and human origins: Archaeological perspectives. *Evolutionary Anthropology* 30: 4–7. (J. K. Murray, R. A. Benitez, and M. J. O'Brien)
  - Genes, culture, and the human niche: An overview. *Evolutionary Anthropology* 30: 40–49. (M. J. O'Brien and R. A. Bentley)
  - Neutral models are a tool, not a syndrome. *Nature Human Behaviour* 5: 807–808. (R. A. Bentley, S. Carrignon, D. J. Ruck, S. Valverde, and M. J. O'Brien)
  - Machine learning for rediscovering revolutionary ideas of the past. *Adaptive Behavior* doi: 10.1177/1059712320983045. (R. A. Bentley, J. Borycz, S. Carrignon, D. J. Ruck, and M. J. O'Brien)
  - Evolution of initiation rites during the Austronesian dispersal. *Science Progress* doi.org/10.1177/00368504211031364. (R. A. Bentley, W. R. Moritz, D. J. Ruck, and M. J. O'Brien)

- Misinformation, disinformation, and hoaxes: What's the difference? *The Conversation*, April 21, 2021. (M. J. O'Brien and I. Alsmadi)
  - When in doubt, copy: Easy and effective, copying is how we cope with unpredictability. *The Nautilus* <https://thereader.mitpress.mit.edu/when-in-doubt-copy> (A. Bentley, M. Earls, and M. J. O'Brien)
- 2020
- Geometric morphometric analyses support incorporating the Goshen point type into Plainview. *American Antiquity* 85: 171–181. (B. Buchanan, M. J. O'Brien, and M. Collard)
  - Prehistoric stone projectile points and technological change. In *Evolutionary Biology*, edited by P. Pontarotti, pp. 229–254. New York: Springer. (M. J. O'Brien and G. R. McGhee)
  - A long view of cumulative technological culture. *Behavioral and Brain Sciences* 43: e174. (M. J. O'Brien and R. A. Bentley)
  - How many bots in Russian troll tweets? *Information Processing and Management* 57: doi.org/10.1016/j.ipm.2020.102303. (I. Alsmadi and M. J. O'Brien)
  - Rating news claims: Feature selection and evaluation. *Mathematical Biosciences and Engineering* 17: 1922–1939. (I. Alsmadi and M. J. O'Brien)
  - Toward autonomous and collaborative information-credibility-assessment systems. *Procedia Computer Science* 168: 118–122. (I. Alsmadi and M. J. O'Brien)
  - Learning strategies and population dynamics during the Pleistocene colonization of North America. In *Culture History and Convergent Evolution: Can We Detect Populations in Prehistory?* edited by H. S. Groucutt, pp. 261–281. New York: Springer. (M. J. O'Brien and R. A. Bentley)
- 2019
- *The Importance of Small Decisions*. Cambridge, Mass.: MIT Press. (M. J. O'Brien, R. A. Bentley, and W. A. Brock) \*Reviewed in the *Financial Times* as one of six books of the month (March). Also reviewed in *New Scientist* (April). Translated into Hungarian (July).
  - Setting the stage: The Late Pleistocene colonization of North America. *Quaternary* 2:1–22.
  - More on Clovis learning: Individual-level processes aggregate to form population-level patterns. *PaleoAmerica* 5:157–168.
  - Modeling niche construction in Neolithic Europe. In *Integrating Qualitative and Social Science Factors in Archaeological Modelling*, edited by M. Saqalli and M. Vander Linden, pp. 91–108. New York: Springer. (R. A. Bentley and M. J. O'Brien)

- 2018
- *Convergent Evolution in Stone-Tool Technology*, edited by M. J. O'Brien, B. Buchanan, and M. I. Eren. Cambridge, Mass.: MIT Press.
  - Issues in archaeological studies of convergence. In *Convergent Evolution in Stone-Tool Technology*, edited by M. J. O'Brien, B. Buchanan, and M. I. Eren, pp. 3–20. Cambridge, Mass.: MIT Press. (M. J. O'Brien, B. Buchanan, and M. I. Eren)
  - Why convergence should be a potential hypothesis for the emergence and occurrence of stone-tool form and production processes: An illustration using replication. In *Convergent Evolution in Stone-Tool Technology*, edited by M. J. O'Brien, B. Buchanan, and M. I. Eren, pp. 61–71. Cambridge, Mass.: MIT Press. (M. I. Eren, B. Buchanan, and M. J. O'Brien)
  - Assessing the likelihood of convergence among North American projectile-point types. In *Convergent Evolution in Stone-Tool Technology*, edited by M. J. O'Brien, B. Buchanan, and M. I. Eren, pp. 275–287. Cambridge, Mass.: MIT Press. (B. Buchanan, M. I. Eren, and M. J. O'Brien)
  - An assessment of stone weapon tip standardization during the Clovis–Folsom transition in the western United States. *American Antiquity* 83:721–734. (B. Buchanan, B. Andrews, M. J. O'Brien and Metin I. Eren)
  - Dual inheritance, cultural transmission, and niche construction. In *The Handbook of Culture and Biology*, edited by J. M. Causadias, E. H. Telzer, and N. A. Gonzales, pp. 179–201. New York: Wiley. (M. J. O'Brien and R. A. Bentley)
  - Paleo Crossing (33ME274): A Clovis site in northeastern Ohio. In *In the Eastern Fluted Point Tradition* (Vol. 2), edited by J. A. M. Gingerich, pp. 186–209. Salt Lake City: University of Utah Press (M. I. Eren, B. G. Redmond, G. L. Miller, B. Buchanan, M. T. Boulanger, B. M. Morgan, and M. J. O'Brien)
  - Obesity, metabolism and aging: A multi-scalar approach. In *Metabolic Aspects of Aging*, edited by M. A. Ottinger, pp. 25–42. New York: Elsevier. (R. A. Bentley, C. N. Ross, and M. J. O'Brien)
  - Chronological systems, establishment of. In *Encyclopedia of Global Archaeology* (rev. ed.), edited by C. Smith. New York: Springer. [https://link.springer.com/referenceworkentry/10.1007%2F978-3-319-51726-1\\_1032-2](https://link.springer.com/referenceworkentry/10.1007%2F978-3-319-51726-1_1032-2).
- 2017
- *The Acceleration of Cultural Change: From Ancestors to Algorithms*. Cambridge, Mass.: MIT Press. (R. A. Bentley and M. J. O'Brien). \*Translated into Chinese (August 2019).
  - Cultural learning and the Clovis colonization of North America. *Evolutionary Anthropology* 26:270–284. (M. J. O'Brien and B. Buchanan)

- Explaining the origin of fluting in North American Pleistocene weaponry. *Journal of Archaeological Science* 81:23–30. (K. A. Thomas, B. A. Story, M. I. Eren, B. Buchanan, B. N. Andrews, M. J. O’Brien, and D. J. Meltzer)
  - Environment-induced changes in selective constraints on social learning during the peopling of the Americas. *Scientific Reports* 7:44431. (B. Buchanan, A. Chao, C.-H. Chiu, R. K. Colwell, M. J. O’Brien, A. Werner, and M. I. Eren)
  - Mapping multiple drivers of human obesity. *Behavioral and Brain Sciences* doi.org/10.1017/S0140525X16001321. (R. A. Bentley and M. J. O’Brien)
  - A geometric morphometrics-based assessment of the number of point types on the Southern Plains during Plainview times. In *Plainview: The Enigmatic Paleoindian Artifact Style of the Great Plains*, edited by V. Holliday, E. Johnson, and R. Knudson, pp. 274–284. Salt Lake City: University of Utah Press. (B. Buchanan, M. J. O’Brien, and M. Collard)
- 2016
- Evaluating reproductive decisions as discrete choices under social influence. *Philosophical Transactions of the Royal Society B* 371:20150154. (R. A. Bentley, W. A. Brock, C. C. S. Caiado, and M. J. O’Brien)
  - Fitness landscapes among many options under social influence. *Journal of Theoretical Biology* 405:5–16. (C. Caiado, W. A. Brock, R. A. Bentley, and M. J. O’Brien)
  - Validating niche-construction theory through path analysis. *Archaeological and Anthropological Sciences* 8:819–837. (W. A. Brock, M. J. O’Brien, and R. A. Bentley)
  - Statistical analysis of paradigmatic class richness supports greater Paleoindian projectile-point diversity in the Southeast. *American Antiquity* 81:174–192. (M. I. Eren, A. Chao, C.-H. Chiu, R. K. Colwell, B. Buchanan, M. T. Boulanger, J. Darwent, and M. J. O’Brien)
  - Design space and cultural transmission: Case studies from Paleoindian eastern North America. *Journal of Archaeological Method and Theory* 23:692–740. (M. J. O’Brien, M. T. Boulanger, B. Buchanan, R. A. Bentley, R. L. Lyman, C. P. Lipo, M. E. Madsen, and M. I. Eren)
  - Drivers of technological richness in prehistoric Texas: An archaeological test of the population size and environmental risk hypotheses. *Archaeological and Anthropological Sciences* 8:625–634. (B. Buchanan, M. J. O’Brien, and M. Collard)
  - Clovis colonization of eastern North America: A phylogenetic approach. *Science and Technology of Archaeological Research* 2:67–89. (M. J. O’Brien, B. Buchanan, and M. I. Eren)
  - Test, model, and method validation: The role of experimental stone replication in hypothesis-driven archaeology. *Ethnoarchaeology* 8:103–136. (M. I. Eren, S. J. Lycett, R. J. Patten, B. Buchanan, J. Pargeter, and M. J. O’Brien)

- More (and more) on Clovis. *Antiquity* 90:525–527.
  - The role of food storage in human niche construction: An example from Neolithic Europe. *Environmental Archaeology* 20:364–378. (M. J. O’Brien and R. A. Bentley)
  - A review of Late Pleistocene North American bone and ivory tools. In *Osseous Projectile Weaponry: Toward an Understanding of Pleistocene Cultural Variability*, edited by M. Langley, pp. 221–238. New York: Springer. (M. J. O’Brien, R. L. Lyman, B. Buchanan, and M. Collard)
  - Comment on “The evolution of cultural complexity: Not by the treadmill alone,” by C. Andersson and D. Read. *Current Anthropology* 57:277–278. (M. J. O’Brien and R. A. Bentley)
- 2015
- Niche construction and the evolution of leadership. *Academy of Management Review* 40:291–306. (B. R. Spisak, M. J. O’Brien, N. Nicholson, and M. van Vugt)
  - Collective behaviour, uncertainty and environmental change. *Philosophical Transactions of the Royal Society A* 373:20140461. (R. A. Bentley and M. J. O’Brien)
  - Social learning and technological evolution during the Clovis colonization of the New World. *Journal of Human Evolution* 80:159–170. (M. I. Eren, B. Buchanan, and M. J. O’Brien)
  - On the relevance of the European Neolithic. *Antiquity* 89:1203–1210. (R. A. Bentley, M. J. O’Brien, K. Manning, and S. Shennan)
  - The Cinmar discovery and the proposed pre-Late Glacial Maximum occupation of North America. *Journal of Archaeological Science: Reports* 2:708–713. (M. I. Eren, M. T. Boulanger, and M. J. O’Brien)
  - Neutron activation analysis of 12,900-year-old stone artifacts confirms 450–510+ kilometer Clovis tool-stone acquisition at Paleo Crossing (33ME274), northeast Ohio, U.S.A. *Journal of Archaeological Science* 53:550–558. (M. T. Boulanger, B. Buchanan, M. J. O’Brien, B. G. Redmond, M. D. Glascock, and M. I. Eren)
  - AMS radiocarbon dates for Pleistocene fauna from the American Northeast. *Radiocarbon* 57:1–4. (M. T. Boulanger, G. D. Lattanzi, D. C. Parris, M. J. O’Brien, and R. L. Lyman)
  - Transmission of cultural variants in the North American Paleolithic. In *Learning Strategies and Cultural Evolution during the Paleolithic*, edited by K. Aoki and A. Mesoudi, pp. 121–143. New York: Springer. (M. J. O’Brien, B. Buchanan, M. T. Boulanger, A. Mesoudi, M. Collard, M. I. Eren, R. A. Bentley, and R. L. Lyman)

- Phylogenetic systematics. In *Mathematics and Archaeology*, edited by J.A. Barceló and I. Bogdanovic, pp. 232–246. Boca Raton, FL: CRC Press. (M. J. O’Brien, M. T. Boulanger, R. L. Lyman, and B. Buchanan)
  - Innovation and natural selection in Paleoindian projectile points from the American Southwest. In *Lithic Technological Systems and Evolutionary Theory*, edited by N. Goodale and W. Andrefsky, Jr., pp. 232–246. Cambridge: Cambridge University Press. (T. L. VanPool, M. J. O’Brien, and R. L. Lyman)
  - Niche construction: Implications for human sciences. In *Emerging Trends in the Social and Behavioral Sciences*, edited by R. A. Scott, and S. M. Kosslyn. doi: 10.1002/9781118900772.etrds0242. New York: Wiley. (K. N. Laland and M. J. O’Brien)
- 2014
- Mapping collective behavior in the big-data era. *Behavioral and Brain Sciences* 37:63–119 [target article]. (R. A. Bentley, M. J. O’Brien, and W. A. Brock)
  - Innovation and cultural transmission in the American Paleolithic: Phylogenetic analysis of eastern Paleoindian projectile-point classes. *Journal of Anthropological Archaeology* 34:100–119. (M. J. O’Brien, M. T. Boulanger, B. Buchanan, M. Collard, R. L. Lyman, and J. Darwent)
  - On thin ice: Problems with Stanford and Bradley’s Solutrean–Clovis hypothesis. *Antiquity* 88:606–624. (M. J. O’Brien, M. T. Boulanger, B. Buchanan, M. Collard, L. Tarle, and M. I. Eren)
  - Risk, mobility, or population size? Drivers of technological richness among contact-period western North American hunter–gatherers. *Philosophical Transactions of the Royal Society B* 20120412. (M. Collard, B. Buchanan, M. J. O’Brien, and J. Scholnick)
  - Continent-wide or region-specific? A geometric morphometrics-based assessment of variation in Clovis point shape. *Archaeological and Anthropological Sciences* 6:145–162. (B. Buchanan, M. J. O’Brien, and M. Collard)
  - More on the rumor of “intentional overshot flaking” and the purported “Ice-Age” Atlantic crossing. *Lithic Technology* 39:55–63. (M. I. Eren, R. J. Patten, M. J. O’Brien, and D. J. Meltzer)
  - Phylogenetic analysis shows that Neolithic slate plaques from the southwestern Iberian Peninsula are not genealogical recording systems. *PLOS ONE* 9(2):e88296. (D. García Rivero and M. J. O’Brien)
  - Advances in documentation, digital curation, virtual exhibition, and a test of 3D morphometrics: A case study of the Vanderpool vessels from the ancestral Caddo territory. *Advances in Archaeological Practice* 2:69–75. (R. Z. Selden, Jr., T. K. Perttula, and M. J. O’Brien)
  - On the cutting edge: New methods and theory for analyzing stone tools.



*Evolutionary Anthropology* 23:128–129. (M. J. O’Brien, M. Collard, and B. Buchanan)

- Chronological systems, establishment of. In *Encyclopedia of Global Archaeology*, edited by C. Smith, pp. 1460–1471. New York: Springer.
- Estimating a path through a map of decision-making. *PLOS ONE* 9(11):e111022. (W. A. Brock, R. A. Bentley, M. J. O’Brien, and C. C. S. Caido)
- Niche construction is an important component of a science of intentional change. *Behavioral and Brain Sciences* 37:432–434.
- Comment on “An evolutionary developmental approach to cultural evolution” by C. Andersson, A. Törnberg, and P. Törnberg. *Current Anthropology* 55:167. (M. J. O’Brien and S. J. Lycett)

2013

- Sociopolitical complexity and the bow and arrow in the American Southwest. *Evolutionary Anthropology* 22:111–117. (T. L. Van Pool and M. J. O’Brien)
- Refuting the technological cornerstone of the North Atlantic Ice-Edge Hypothesis. *Journal of Archaeological Science* 40:2934–2941. (M. I. Eren, R. J. Patten, M. J. O’Brien, and D. J. Meltzer)
- Population size as an explanation for patterns in the Paleolithic Archaeological record: Caution is needed. *Current Anthropology* 54:S388–396. (M. Collard, B. Buchanan, M. J. O’Brien)
- Population size and cultural evolution in nonindustrial food-producing societies. *PLOS ONE* 8(9):e72628. (M. Collard, B. Buchanan, A. Ruttle, and M. J. O’Brien)
- Trees, thickets, or something in between? Recent theoretical and empirical work in cultural phylogeny. *Israel Journal of Ecology and Evolution* 59(2):45–61. (M. J. O’Brien, M. Collard, B. Buchanan, and M. T. Boulanger)
- Introduction to “Zooarchaeological Method & Theory”: A special issue honoring R. Lee Lyman. *Journal of Archaeological Method and Theory* 20:365–380. (C. M. Darwent, V. L. Butler, and M. J. O’Brien)
- Darwinian archaeology. In *Oxford Companion to Archaeology*, edited by N. A. Silberman, pp. 550–555. New York: Oxford University Press.
- Exactly what is behind social acceptance? *International Water Power & Dam Construction* (May), pp. 43–45. (M. J. O’Brien and R. A. Bentley)
- Early arrivals: Native Americans. In *Missouri River Country: 100 Miles of Stories and Scenery from Hermann to the Confluence*, edited by D. A. Burkhardt and C. Burkhardt, pp. 14–18. Boonville, Mo.: Missouri Life.

2012

- Genes, culture, and agriculture: An example of human niche construction [with

CA\* comment]. *Current Anthropology* 53:434–470. (M. J. O’Brien and K. N. Laland)

- Cultural evolutionary tipping points in the storage and transmission of information. *Frontiers in Psychology* 3:1–14. (R. A. Bentley and M. J. O’Brien)
- Statistical analysis cannot be divorced from archaeological theory: A reply to Potter. *American Antiquity* 77:372–375. (A. Mesoudi and M. J. O’Brien)
- Beveled projectile points and ballistics technology. *American Antiquity* 77:774–788. (C. P. Lipo, R. C. Dunnell, M. J. O’Brien, V. Harper, and J. Dudgeon)
- The buzzwords of the crowds. *New York Times* (Sunday Review) (Dec. 1), p. 4. (R. A. Bentley and M. J. O’Brien)
- Adult learners in a novel environment use prestige-biased social learning. *Evolutionary Psychology* 10:519–537. (C. Atkisson, M. J. O’Brien, and A. Mesoudi)
- Word diffusion and climate science. *PLOS ONE* 7(11):e47966. (R. A. Bentley, P. Garnett, M. J. O’Brien, and W. A. Brock)
- An assessment of the impact of hafting on Paleoindian projectile-point variability. *PLOS ONE* 7(5):e36364. (B. Buchanan, M. J. O’Brien, J. D. Kilby, B. B. Huckell, and M. Collard)
- A morphometric assessment of the intended function of cached Clovis points. *PLOS ONE* 7(2):e30530. (B. Buchanan, J. D. Kilby, B. B. Huckell, M. J. O’Brien, and M. Collard)
- Tipping points among social learners: Tools from varied disciplines. *Current Zoology* 58:298–306. (R. A. Bentley and M. J. O’Brien)
- Risk of resource failure and toolkit variation in small-scale farmers and herders. *PLOS ONE* 7:e40975. (M. Collard, B. Buchanan, A. Ruttle, and M. J. O’Brien)
- The 1974–75 excavations at Mound Bottom, a palisaded Mississippian center in Cheatham County, Tennessee. *Southeastern Archaeology* 31:70–86. (M. J. O’Brien and C. Kuttruff)
- Cultural cladistics and the early prehistory of North America. In *Evolutionary Biology: Mechanisms and Trends*, edited by P. Pontarotti, pp. 23–42. New York: Springer. (M. J. O’Brien, B. Buchanan, M. Collard, and M. T. Boulanger)
- Mapping human behavior for business. *European Business Review* May–June:23–26 (A. Bentley, M. Earls, and M. J. O’Brien)
- Fish. In *Encyclopedia of Consumption and Waste: The Social Science of Garbage*, edited by C. A. Zimring, pp. 257–259. Thousand Oaks, Calif.: Sage.

- 2011
- *I'll Have What She's Having: Mapping Social Behavior*. Cambridge, Mass.: MIT Press. (R. A. Bentley, M. Earls, and M. J. O'Brien). Translated into Arabic, July, 2024.
  - Cultural niche construction: An introduction. *Biological Theory* 6:191–202. (K. N. Laland and M. J. O'Brien)
  - Niche construction and the toolkits of hunter-gatherers and food producers. *Biological Theory* 6:251–259. (M. Collard, B. Buchanan, A. Ruttle, and M. J. O'Brien)
  - Stimulated variation and cascades: Two processes in the evolution of complex technological systems. *Journal of Archaeological Method and Theory* 18:309–335. (M. J. O'Brien and R. A. Bentley)
  - The selectivity of cultural learning and the tempo of cultural evolution. *Journal of Evolutionary Psychology* 9:125–141. (R. A. Bentley and M. J. O'Brien)
  - Points and prey: A quantitative test of the hypothesis that prey size influences early Paleoindian projectile point form. *Journal of Archaeological Science* 38:852–864. (B. Buchanan, M. Collard, M. J. Hamilton, and M. J. O'Brien)
  - A comment on Steele's (2010) "Radiocarbon dates as data: Quantitative strategies for estimating colonization front speeds and event densities." *Journal of Archaeological Science* 38:2116–2122. (B. Buchanan, M. Hamilton, K. Edinborough, M. J. O'Brien, and M. Collard)
  - Quality versus mere popularity: A conceptual map for understanding human behavior. *Mind and Society* 10:181–191. (R. A. Bentley, M. J. O'Brien, and P. Ormerod)
  - Cultural innovation from an Americanist perspective. In *Investigating Archaeological Cultures: Material Culture, Variability, and Transmission*, edited by B. W. Roberts and M. Vander Linden, pp. 61–75. New York: Springer.
  - Robert C. Dunnell, 1942–2010. *SAA Archaeological Record* 11(4):54. (D. J. Meltzer and M. J. O'Brien)
- 2010
- *Innovation in Cultural Systems: Contributions from Evolutionary Anthropology*. Cambridge, Mass.: MIT Press. (M. J. O'Brien and S. J. Shennan, eds.)
  - Issues in anthropological studies of innovation. In *Innovation in Cultural Systems: Contributions from Evolutionary Anthropology*, edited by M. J. O'Brien and S. J. Shennan, pp. 3–17. Cambridge, Mass.: MIT Press. (M. J. O'Brien and S. J. Shennan)
  - Cultural traits as units of analysis. *Philosophical Transactions of the Royal Society B* 365:3797–3806. (M. J. O'Brien, R. L. Lyman, A. Mesoudi, and T. L. VanPool)
  - Spatiotemporal dynamics of the Clovis–Folsom transition. *Journal of*

*Archaeological Science* 37:2513–2519. (M. Collard, B. Buchanan, M. J. Hamilton, and M. J. O'Brien)

- Niche construction theory and archaeology. *Journal of Archaeological Method and Theory* 17:303–322. (K. N. Laland and M. J. O'Brien)
- Evolutionary theory and technology: The future of anthropology. *Ludus Vitalis* 18:321–324.
- The future of Paleolithic studies: A view from the New World. In *New Perspectives on Old Stones: Analytical Approaches to Palaeolithic Technologies*, edited by S. J. Lycett and P. R. Chauhan, pp. 311–334. New York: Springer.
- Cultural phylogenetics: Issues and prospects. In *Clasificación y Arqueología: Enfoques y Métodos Taxonómicos a la Luz de la Evolución Darwiniana*, edited by D. García Rivero, J. L. Escacena Carrasco, and F. J. García Fernández, pp. 147–173. Seville, Spain: University of Seville Press.

2009

- Placing archaeology within a unified science of cultural evolution. In *Pattern and Process in Cultural Evolution*, edited by S. J. Shennan, pp. 21–32. Berkeley: University of California Press. (A. Mesoudi and M. J. O'Brien)
- The diversity of North American projectile-point types, before and after the bow and arrow. *Journal of Anthropological Archaeology* 28:1–13. (R. L. Lyman, T. L. VanPool, and M. J. O'Brien)
- Powers Fort and other Middle Mississippian sites. In *Archaeology in America: An Encyclopedia*, edited by F. P. McManamon, L. S. Cordell, G. Lightfoot, and G. R. Milner, pp. 157–161. Westport, Conn.: Greenwood.
- Towosahgy State Historic Site and other large Mississippian sites. In *Archaeology in America: An Encyclopedia*, edited by F. P. McManamon, S. Cordell, K. G. Lightfoot, and G. R. Milner, pp. 161–164. Westport, Conn.: Greenwood.
- Darwinism and historical archaeology. In *The International Handbook of Historical Archaeology*, edited by T. Majewski and D. Gaimster, 227–252. New York: Springer. (M. J. O'Brien and R. L. Lyman)

2008

- Editor. *Cultural Transmission and Archaeology: Issues and Case Studies*. Washington, D.C.: Society for American Archaeology Press.
- Phylogenetics and the evolution of cultural diversity. In *Cultural Transmission and Archaeology: Issues and Case Studies*, edited by M. J. O'Brien, pp. 39–58. Washington, D.C.: Society for American Archaeology Press. (M. J. O'Brien, R. L. Lyman, M. Collard, C. J. Holden, R. D. Gray, and S. J. Shennan)
- The cultural transmission of Great Basin projectile-point technology I: An experimental simulation. *American Antiquity* 73:1–19. (A. Mesoudi and M. J. O'Brien)

- The cultural transmission of Great Basin projectile-point technology II: An agent-based computer simulation. *American Antiquity* 73:627–644. (A. Mesoudi and M. J. O’Brien)
- The learning and transmission of hierarchical cultural recipes. *Biological Theory* 3:63–72. (A. Mesoudi and M. J. O’Brien)
- Variation in North American dart points and arrow points when one, or both, are present. *Journal of Archaeological Science* 35:2805–2812. (R. L. Lyman, T. L. VanPool, and M. J. O’Brien)
- Language is nothing special: Response to “Across the curious parallel of language and species evolution” by J. Whitfield. *PLOS Biology* 6:e186 doi:10.1371/journal.pbio.0060186. (J. Tehrani, R. A. Bentley, and M. J. O’Brien)
- Getting serious about cultural transmission. *Review of Archaeology* 29:75–83.
- Epilogue: Science AND religion, not science OR religion. In *The Edge of Reason? Science and Religion in Modern Society*, edited by R. A. Bentley, pp. 193–195. London: Continuum.

2007

- *Traditional Archery from Six Continents: The Charles E. Grayson Collection*. Columbia: University of Missouri Press. (C. E. Grayson, M. French, and M. J. O’Brien) \*Translated into German (August 2010).
- The KLI Conference on Innovation. In “Editorial,” by M. Carver. *Antiquity* 81:839–840. (M. J. O’Brien and S. J. Shennan)
- What’s new? Some basic issues in anthropological studies of innovation. *Review of Archaeology* 28:39–54.
- El papel de la adaptación en la explicación arqueológica. In *Clásicos de Teoría Arqueológica Contemporánea*, edited by V. D. Horwitz, pp. 109–145. Buenos Aires: Sociedad Argentina de Antropología. (M. J. O’Brien and T. D. Holland) (translation of “The role of adaptation in archaeological explanation” *American Antiquity* 57:36–59 [1992]).
- Los objetivos de la arqueología evolucionista: Su historia y explicación. In *Clásicos de Teoría Arqueológica Contemporánea*, edited by V. D. Horwitz, pp. 213–287. Buenos Aires: Sociedad Argentina de Antropología. (R. L. Lyman and M. J. O’Brien) (translation of “The goals of evolutionary archaeology: History and explanation” *Current Anthropology* 39:615–652 [with CA\* comment] [1998]).
- ¿Qué es evolución? Respuesta a Bamforth. In *Clásicos de Teoría Arqueológica Contemporánea*, edited by V. D. Horwitz, pp. 320–330. Buenos Aires: Sociedad Argentina de Antropología. (M. J. O’Brien, R. L. Lyman, and R. D. Leonard) (translation of “What is evolution? A reply to Bamforth” *American Antiquity* 68:573–580 [2003]).

2006

- *Measuring Time with Artifacts: A History of Methods in American Archaeology*. Lincoln: University of Nebraska Press. (R. L. Lyman and M. J. O'Brien)
- *Mapping Our Ancestors: Phylogenetic Approaches in Anthropology and Prehistory*. New York: Aldine. (C. P. Lipo, M. J. O'Brien, M. Collard, and S. J. Shennan, eds.)
- Cultural phylogenies and explanation: Why historical methods matter. In *Mapping Our Ancestors: Phylogenetic Approaches in Anthropology and Prehistory*, edited by C. P. Lipo, M. J. O'Brien, M. Collard, and S. J. Shennan, pp. 3–16. New York: Aldine. (C. P. Lipo, M. J. O'Brien, M. Collard, and S. J. Shennan)
- Seriation and cladistics: The difference between anagenetic and cladogenetic evolution. In *Mapping Our Ancestors: Phylogenetic Approaches in Anthropology and Prehistory*, edited by C. P. Lipo, M. J. O'Brien, M. Collard, and S. J. Shennan, pp. 65–88. New York: Aldine. (R. L. Lyman and M. J. O'Brien)
- Using cladistics to construct lineages of projectile points from northeastern Missouri. In *Mapping Our Ancestors: Phylogenetic Approaches in Anthropology and Prehistory*, edited by C. P. Lipo, M. J. O'Brien, M. Collard, and S. J. Shennan, pp. 185–208. New York: Aldine. (J. Darwent and M. J. O'Brien)
- Afterword. In *Mapping Our Ancestors: Phylogenetic Approaches in Anthropology and Prehistory*, edited by C. P. Lipo, M. J. O'Brien, M. Collard, and S. J. Shennan, pp. 299–302. New York: Aldine. (C. P. Lipo, M. J. O'Brien, M. Collard, and S. J. Shennan)
- Archaeology and cultural macroevolution. *Behavioral and Brain Sciences* 29:329–383.
- Evolutionary archaeology is unlikely to go extinct: Response to Gabora. *World Archaeology* 38:697–703. (R. L. Lyman and M. J. O'Brien)

2005

- *Archaeology as a Process: Processualism and Its Offspring*. Salt Lake City: University of Utah Press. (M. J. O'Brien, R. L. Lyman, and M. B. Schiffer)
- Publishing archaeology in *Science* and *Scientific American*, 1940–2003. *American Antiquity* 70:157–167. (R. L. Lyman, M. J. O'Brien, and M. B. Schiffer)
- Evolutionism and North America's archaeological record. *World Archaeology* 37:26–45.
- Within-taxon morphological diversity in late-Quaternary *Neotoma* as a paleoenvironmental indicator, Bonneville Basin, northwestern Utah, USA. *Quaternary Research* 63:274–282. (R. L. Lyman and M. J. O'Brien)
- Reflections on thinking: History, philosophy, and American archaeology. *Review of Archaeology* 25(2):29–43.
- Cultural phylogenetic hypotheses: Some fundamental issues. In *The Evolution of Cultural Diversity: A Phylogenetic Approach*, edited by R. Mace, C. Holden, and S.

J. Shennan, pp. 87–110. London: University College London Press. (M. J. O’Brien and R. L. Lyman)

- 2004
- A history of normative theory in Americanist archaeology. *Journal of Archaeological Method and Theory* 11:369–396. (R. L. Lyman and M. J. O’Brien)
  - Nomothetic science and idiographic history in twentieth-century Americanist anthropology. *Journal of the History of the Behavioral Sciences* 40:77–96. (R. L. Lyman and M. J. O’Brien)
  - History and explanation in archaeology. *Anthropological Theory* 4:173–197. (M. J. O’Brien and R. L. Lyman)
- 2003
- *Cladistics and Archaeology*. Salt Lake City: University of Utah Press. (M. J. O’Brien and R. L. Lyman) \*Choice Book of the Year Award\*
  - *W. C. McKern and the Midwestern Taxonomic Method*. Tuscaloosa: University of Alabama Press. (R. L. Lyman and M. J. O’Brien)
  - *Style, Function, Transmission: Evolutionary Archaeological Perspectives*. Salt Lake City: University of Utah Press. (M. J. O’Brien and R. L. Lyman, eds.)
  - Introduction. In *Style, Function, Transmission: Evolutionary Archaeological Perspectives*, edited by M. J. O’Brien and R. L. Lyman, pp. 1–32. Salt Lake City: University of Utah Press. (M. J. O’Brien and R. L. Lyman)
  - What is evolution? A reply to Bamforth. *American Antiquity* 68:573–580. (M. J. O’Brien, R. L. Lyman, and R. D. Leonard)
  - Cultural traits: Units of analysis in early twentieth-century anthropology. *Journal of Anthropological Research* 59:225–250. (R. L. Lyman and M. J. O’Brien)
  - On morning sickness and the Neolithic Revolution. *Current Anthropology* 44:707–711. (T. D. Holland and M. J. O’Brien)
  - Response to Weiss and Hayashida. *Evolutionary Anthropology* 11:220. (R. L. Lyman and M. J. O’Brien)
  - Comment on “Cultural diversification and decimation in the prehistoric record,” by W. C. Prentiss and J. C. Chatters. *Current Anthropology* 44:50–51. (R. L. Lyman and M. J. O’Brien)
  - Resolving phylogeny: Evolutionary archaeology’s fundamental issue. In *Essential Tensions in Archaeological Method and Theory*, edited by T. L. VanPool and C. S. VanPool. Salt Lake City: University of Utah Press. pp. 115–135. (M. J. O’Brien and R. L. Lyman)
  - Nels Nelson and the measure of time. In *Picking the Lock of Time: Developing*
-

*Chronology in American Archaeology*, edited by J. Truncer, pp. 64–87. Gainesville: University Press of Florida.

- Background to an evolutionary archaeological approach in the lower Mississippi Valley. In *Woodland–Mississippian Transition in the Mid-South*, edited by C. H. McNutt, S. Williams, and M. D. Jeter, pp. 53–65. University of Memphis, Anthropological Research Center, Occasional Paper no. 25. (M. J. O’Brien and R. L. Lyman)
- 2002
- Two issues in archaeological phylogenetics: Taxon construction and outgroup selection. *Journal of Theoretical Biology* 215:133–150. (M. J. O’Brien, R. L. Lyman, Y. Saab, E. Saab, J. Darwent, and D. S. Glover)
  - Evolutionary archeology: Current status and future prospects. *Evolutionary Anthropology* 11:26–36. (M. J. O’Brien and R. L. Lyman)
  - The epistemological nature of archaeological units. *Anthropological Theory* 2:37–57. (M. J. O’Brien and R. L. Lyman)
  - Cause. In *A Handbook of Concepts in Modern Evolutionary Archaeology*, edited by J. Hart and J. E. Terrell, pp. 49–67. Westport, Conn.: Bergin and Garvey. (M. J. O’Brien and R. L. Lyman)
  - Classification. In *A Handbook of Concepts in Modern Evolutionary Archaeology*, edited by J. Hart and J. E. Terrell, pp. 69–88. Westport, Conn.: Bergin and Garvey. (R. L. Lyman and M. J. O’Brien)
  - Culture-historical units and the archaeological record of southeastern Missouri, 500 B.C.–A.D. 700. In *The Woodland Southeast*, edited by D. G. Anderson and R. L. Mainfort, Jr., pp. 421–443. Tuscaloosa: University of Alabama Press. (M. J. O’Brien, R. L. Lyman, and J. M. Cogswell)
  - Cladistics and archaeological phylogeny. In *Perspectivas Integradoras entre Arqueología y Evolución: Teoría, Métodos y Casos de Aplicación*, edited by G. Martínez and J. L. Lanata, pp. 175–186. Olavarría, Argentina: INCUAPA-UNC. (M. J. O’Brien, R. L. Lyman, and J. Darwent)
  - A brief introduction to systematics. *Missouri Archaeologist* 63:1–6
  - Cladistics and archaeological phylogeny. *Missouri Archaeologist* 63:31–52.
  - Swift Creek Complicated Stamped pottery and issues of archaeological classification. *Missouri Archaeologist* 63:53–70. (K. Y. Smith and M. J. O’Brien)
- 2001
- *Mississippian Community Organization: The Powers Phase in Southeastern Missouri*. New York: Kluwer Academic/Plenum.
  - *Setting the Agenda for American Archaeology: The National Research Council Archaeological Conferences of 1929, 1932, and 1935*. Tuscaloosa: University of



Alabama Press. (M. J. O'Brien and R. L. Lyman, eds.)

- Introduction. In *Setting the Agenda for American Archaeology: The National Research Council Archaeological Meetings of 1929, 1932, and 1935*, edited by M. J. O'Brien and R. L. Lyman, pp. 1–83. Tuscaloosa: University of Alabama Press. (M. J. O'Brien and R. L. Lyman)
  - Introduction. In *Method and Theory in American Archaeology*, by G. R. Willey and P. Phillips, pp. 1–78. Tuscaloosa: University of Alabama Press. (R. L. Lyman and M. J. O'Brien)
  - Cladistics is useful for reconstructing archaeological phylogenies: Paleoindian points from the southeastern United States. *Journal of Archaeological Science* 28:1115–1136. (M. J. O'Brien, J. Darwent, and R. L. Lyman)
  - On misconceptions of evolutionary archaeology: Confusing macroevolution and microevolution. *Current Anthropology* 42:408–409. (R. L. Lyman and M. J. O'Brien)
  - Style and function: An introduction. In *Style and Function: Conceptual Issues in Evolutionary Archaeology*, edited by G. F. M. Rakita and T. D. Hurt, pp. 1–23. Westport, Conn.: Bergin and Garvey. (M. J. O'Brien and R. D. Leonard)
  - Archaeology, paleoecosystems, and ecological restoration. In *The Historical Ecology Handbook: A Restorationist's Guide to Reference Ecosystems*, edited by D. Egan and E. A. Howell, pp. 29–53. Washington, D.C.: Island Press.
  - The National Research Council and midwestern archaeology: The St. Louis Meeting of 1929. *Missouri Archaeologist* 62:107–148. (M. J. O'Brien and R. L. Lyman)
- 2000
- *Applying Evolutionary Archaeology: A Systematic Approach*. New York: Kluwer Academic/Plenum. (M. J. O'Brien and R. L. Lyman). Translated into Korean, June 2006.
  - Chronometers and units in early archaeology and paleontology. *American Antiquity* 65:691–707. (R. L. Lyman and M. J. O'Brien)
  - Measuring and explaining change in artifact variation with clade-diversity diagrams. *Journal of Anthropological Archaeology* 19:39–74. (R. L. Lyman and M. J. O'Brien)
  - Time, space, and marker types: Ford's 1936 chronology for the lower Mississippi Valley. *Southeastern Archaeology* 19:46–62. (M. J. O'Brien, R. L. Lyman, and J. Darwent)
  - Darwinian evolutionism is applicable to historical archaeology. *International Journal of Historical Archaeology* 4:71–112. (M. J. O'Brien and R. L. Lyman)
  - The legacy of culture history in the southeastern United States. *Reviews in*

*Anthropology* 29:111–139.

- Prehistoric osseous rods from North America: Arguments on function. *North American Archaeologist* 20:347–364. (R. L. Lyman and M. J. O’Brien)
  - Evolutionary archaeology and its future directions: A reply to Kehoe. *Review of Archaeology* 21:39–43. (M. J. O’Brien and R. L. Lyman)
  - Comment on “Population, culture history, and the dynamics of culture change,” by S. J. Shennan. *Current Anthropology* 41:824–826. (R. L. Lyman and M. J. O’Brien)
  - Evolutionary archaeology: Reconstructing and explaining historical lineages. In *Social Theory in Archaeology*, edited by M. B. Schiffer. Salt Lake City: University of Utah Press, pp. 126–142. (M. J. O’Brien and R. L. Lyman)
  - Gentle persuasion: The National Research Council and southeastern archaeology. *Journal of Alabama Archaeology* 46:1–42. (M. J. O’Brien and R. L. Lyman)
- 1999
- *Seriation, Stratigraphy, and Index Fossils: The Backbone of Archaeological Dating*. New York: Kluwer Academic/Plenum. (M. J. O’Brien and R. L. Lyman)
  - *Measuring the Flow of Time: The Works of James A. Ford, 1935–1941*. Tuscaloosa: University of Alabama Press. (M. J. O’Brien and R. L. Lyman, eds.)
  - Introduction. In *Measuring the Flow of Time: The Works of James A. Ford, 1935–1941*, edited by M. J. O’Brien and R. L. Lyman, pp. 1–57. Tuscaloosa: University of Alabama Press. (M. J. O’Brien and R. L. Lyman)
  - Americanist stratigraphic excavation and the measurement of culture change. *Journal of Archaeological Method and Theory* 6:55–108. (R. L. Lyman and M. J. O’Brien)
  - The Bureau of American Ethnology and its legacy to Southeastern archaeology. *Journal of the Southwest* 41:407–440. (M. J. O’Brien and R. L. Lyman)
  - Meeting theoretical and methodological challenges to the future of evolutionary archaeology. *Review of Archaeology* 20(2):14–22. (M. J. O’Brien and R. L. Lyman)
- 1998
- *The Prehistory of Missouri*. Columbia: University of Missouri Press. (M. J. O’Brien and W. R. Wood)
  - *James A. Ford and the Growth of Americanist Archaeology*. Columbia: University of Missouri Press. (M. J. O’Brien and R. L. Lyman)
  - *Changing Perspectives on the Archaeology of the Central Mississippi Valley*. Tuscaloosa: University of Alabama Press. (M. J. O’Brien and R. C. Dunnell, eds.)
  - A brief introduction to the archaeology of the central Mississippi River valley. In *Changing Perspectives on the Archaeology of the Central Mississippi Valley*, edited

by M. J. O'Brien and R. C. Dunnell, pp. 1-30. Tuscaloosa: University of Alabama Press. (M. J. O'Brien and R. C. Dunnell)

- 7500 years of prehistoric footwear from Arnold Research Cave, Missouri. *Science* 281:72–75. (J. T. Kuttruff, S. G. DeHart, and M. J. O'Brien).
  - Basic incompatibilities between evolutionary and behavioral archaeology. *American Antiquity* 63:485–498. (M. J. O'Brien, R. L. Lyman, and R. D. Leonard)
  - The goals of evolutionary archaeology: History and explanation. *Current Anthropology* 39:615–652 [with CA\* comment]. (R. L. Lyman and M. J. O'Brien)
  - Seriation, superposition, and interdigitation: A history of Americanist graphic depictions of culture change. *American Antiquity* 63:239–261. (R. L. Lyman, S. Wolverton, and M. J. O'Brien)
  - A mechanical and functional study of bone rods from the Richey–Roberts Clovis cache, Washington, U.S.A. *Journal of Archaeological Science* 25:887–906. (R. L. Lyman, M. J. O'Brien, and V. Hayes)
  - Sloan: Dalton-age occupation of northeastern Arkansas. *Review of Archaeology* 19:16–30.
  - Analysis of early Mississippian-period pottery from Kersey, Pemiscot County, Missouri. *Southeastern Archaeology* 17:39–52. (J. W. Cogswell and M. J. O'Brien)
- 1997
- A comparison of laboratory results to archaeological data: Pottery surface treatments in eastern Missouri. *Southeastern Archaeology* 16:169–174. (J. W. Cogswell and M. J. O'Brien)
  - The concept of evolution in early twentieth-century Americanist archaeology. In *Rediscovering Darwin: Evolutionary Theory and Archeological Explanation*, edited by C. M. Barton and G. A. Clark, pp. 21–48. American Anthropological Association, Archeological Papers no. 7. (R. L. Lyman and M. J. O'Brien)
  - *The Rise and Fall of Culture History*. New York: Plenum Press. (R. L. Lyman, M. J. O'Brien, and R. C. Dunnell) \*Choice Book of the Year Award\*
  - *Americanist Culture History: Fundamentals of Time, Space, and Form*. New York: Plenum Press. (R. L. Lyman, M. J. O'Brien, and R. C. Dunnell, eds.)
  - An Introduction. In *Americanist Culture History: Fundamentals of Time, Space, and Form*, edited by R. L. Lyman, M. J. O'Brien, and R. C. Dunnell, pp. 1–13. New York: Plenum Press. (R. L. Lyman, M. J. O'Brien, and R. C. Dunnell)
  - Parasites, porotic hyperostosis, and the implications of changing perspectives. *American Antiquity* 62:183–193. (T. D. Holland and M. J. O'Brien)
  - Neutron-activation analysis of pottery from Pinson Mounds and nearby sites in western Tennessee: Local production vs. long-distance importation. *Midcontinental*

*Journal of Archaeology* 22:43–68. (R. C. Mainfort, J. W. Cogswell, M. J. O'Brien, H. Neff, and M. D. Glascock).

- 1996
- *Paradigms of the Past: The Story of Missouri Archaeology*. Columbia: University of Missouri Press. \*Choice Book of the Year\*
  - Editor. *Evolutionary Archaeology: Theory and Application*. Salt Lake City: University of Utah Press.
  - Evolutionary archaeology: An introduction. In *Evolutionary Archaeology: Theory and Application*, edited by M. J. O'Brien, pp. 1–15. Salt Lake City: University of Utah Press.
  - *Middle Woodland and Late Woodland Subsistence and Ceramic Technology in the Central Mississippi River Valley: Selected Studies from the Burkemper Site, Lincoln County, Missouri*. Illinois State Museum, Reports of Investigations no. 52.
  - The historical development of an evolutionary archaeology. In *Darwinian Archaeologies*, edited by H. D. G. Maschner, pp. 17–32. New York: Plenum Press.
- 1995
- *Holocene Human Adaptations in the Missouri Prairie–Timberlands*. Arkansas Archeological Survey, Research Series no. 45. (W. R. Wood, M. J. O'Brien, K. A. Murray, and J. C. Rose)
  - Behavioral archaeology and the extended phenotype. In *Expanding Archaeology*, edited by J. M. Skibo, W. H. Walker, and A. E. Nielsen, pp. 143–161. Salt Lake City: University of Utah Press. (M. J. O'Brien and T. D. Holland)
  - The nature and premise of a selection-based archaeology. In *Evolutionary Archaeology: Methodological Issues*, edited by P. A. Teltser, pp. 175–200. Tucson: University of Arizona Press. (M. J. O'Brien and T. D. Holland)
  - A materials-science approach to understanding limestone-tempered pottery from the Midwest. *Journal of Archaeological Science* 22:823–832. (R. J. Hoard, M. J. O'Brien, M. G. Khorasgany, and V. S. Gopalaratnam)
  - Neutron-activation analysis of Campbell Appliquéd pottery from southeastern Missouri and western Tennessee: Implications for late Mississippian intersite relations. *Southeastern Archaeology* 14:181–194. (M. J. O'Brien, J. W. Cogswell, R. C. Mainfort, H. Neff, and M. D. Glascock)
  - Archaeological research in the central Mississippi Valley: Culture history gone awry. *Review of Archaeology* 16:23–36.
- 1994
- *Cat Monsters and Head Pots: The Archaeology of Missouri's Pemiscot Bayou*. Columbia: University of Missouri Press.
  - Evolutionary implications of design and performance characteristics of prehistoric

- pottery. *Journal of Archaeological Method and Theory* 1:259–304. (M. J. O’Brien, T. D. Holland, R. J. Hoard, and G. L. Fox)
- 1992
- The role of adaptation in archaeological explanation. *American Antiquity* 57:36–59. (M. J. O’Brien and T. D. Holland)
  - Regional analysis of the Zapotec empire, Valley of Oaxaca, Mexico. *World Archaeology* 23:264–282. (M. J. O’Brien and D. E. Lewarch)
- 1991
- Frontier colonization of the Saline Creek valley. In *French Colonial Archaeology: The Illinois Country and the Western Great Lakes*, edited by J. A. Walthall, pp. 165–188. Urbana: University of Illinois Press. (M. K. Trimble, T. Majewski, M. J. O’Brien, and A. L. Price)
- 1990
- Variation, selection, and the archaeological record. In *Archaeological Method and Theory*, Vol. 2, edited by M. B. Schiffer, pp. 31–79. Tucson: University of Arizona Press. (M. J. O’Brien and T. D. Holland)
  - Comment on “Cultigens in prehistoric eastern North American” by T. J. Riley, R. Edging, and J. Rossen. *Current Anthropology* 31:534–535.
  - Nonprofessional archaeologists. *Central States Archaeological Journal* 37(4):144.
- 1989
- Wealth and status in the Upper South socioeconomic system of northeastern Missouri. *Historical Archaeology* 23(2):60–95. (M. J. O’Brien and T. Majewski)
  - Interpretive competition in the absence of appropriate data: Monte Albán revisited. *Current Anthropology* 30:191–200. (M. J. O’Brien, J. A. Ferguson, T. D. Holland, and D. E. Lewarch)
  - Geoarchaeological evidence for prairie-mound formation in the Mississippi Alluvial Valley, southeastern Missouri. *Quaternary Research* 31:83–93. (M. J. O’Brien, R. L. Lyman and T. D. Holland)
  - Practical data-base construction for historical-period ceramic analysis. In *Analysis and Publication of Ceramics: The Computer Data-Base in Archaeology*, edited by J. A. Blakely and W. J. Bennett, Jr. pp. 81–97. British Archaeological Reports, International Series 551. (T. Majewski and M. J. O’Brien)
- 1988
- A paradigmatic shift in the search for the origin of agriculture. *American Anthropologist* 90:958–965. (M. J. O’Brien and H. C. Wilson)
  - Comment on “Ecological theory and cultural evolution in the Valley of Oaxaca,” by W. T. Sanders and D. L. Nichols. *Current Anthropology* 29:62–63.
  - Plow-zone zooarchaeology: Fragmentation and identifiability. *Journal of Field*

- Archaeology* 14:493–498. (R. L. Lyman and M. J. O’Brien)
- The colonial South Carolina frontier. *Quarterly Review of Archaeology* 9(1):3–4.
- 1987
- The use and misuse of nineteenth-century English and American ceramics in archaeological analysis. *Advances in Archaeological Method and Theory* 11:97–209. (T. Majewski and M. J. O’Brien)
  - Sedentism, population growth, and resource selection in the Woodland Midwest: A review of coevolutionary developments [with CA\* comment]. *Current Anthropology* 28:177–197.
- 1986
- Hopewell in the lower Illinois River valley. *Quarterly Review of Archaeology* 7(2):3–5.
  - The interaction of archaeology and the earth sciences in the American Midwest. *American Archeology* 5:120–126. (E. A. Bettis III, M. J. O’Brien, and D. W. Benn)
- 1985
- Archaeology of the central Salt River valley: An overview of the prehistoric occupation. *Missouri Archaeologist* 46 (whole volume).
- 1984
- *Grassland, Forest, and Historical Settlement: An Analysis of Dynamics in Northeast Missouri*. Lincoln: University of Nebraska Press.
  - The Cannon Project and data publication. *Wisconsin Archeologist* 65:398–401.
- 1983
- An Archaic projectile point sequence from the southern Prairie Peninsula: The Pigeon Roost Creek site. In *Archaic Hunters and Gatherers in the American Midwest*, edited by J. L. Phillips and J. A. Brown. pp. 71–98. New York: Academic Press. (M. J. O’Brien and R. E. Warren)
- 1982
- Digital enhancement and grey-level slicing of aerial photographs: Techniques for archaeological analysis of intrasite variability. *World Archaeology* 14:173–190. (M. J. O’Brien, J. L. Beets, R. E. Warren, T. Hotrabhavananda, T. W. Barney, and E. E. Voigt)
  - *A Late Formative Irrigation Community below Monte Albán: Survey and Excavation on the Xoxocotlan Piedmont, Oaxaca, Mexico*. Austin: University of Texas Press. (M. J. O’Brien, R. D. Mason, D. E. Lewarch, and J. A. Neely)
  - *The Cannon Reservoir Human Ecology Project: An Archaeological Study of Cultural Adaptations in the Southern Prairie Peninsula*. New York: Academic Press. (M. J. O’Brien, R. E. Warren and D. E. Lewarch, eds.)
  - Soils and settlement in the southern Prairie Peninsula. *Contract Abstracts and CRM*

- Archeology* 2(3):36–49. (R. E. Warren, C. K. McDaniel, and M. J. O’Brien)
- The use and misuse of soils-related data in mapping and modeling past environments: An example from the central Mississippi River valley. *Contract Abstracts and CRM Archeology* 2(3):22–35. (E. E. Voigt and M. J. O’Brien)
- 1981
- Settlement dynamics in the southern Prairie Peninsula: A regional model of frontier development. In *Current directions in midwestern archaeology: Selected papers from the Mankato Conference*, edited by S. F. Anfinson, pp. 15–34. Minnesota Archaeological Society, Occasional Publications in Minnesota Anthropology 9. (R. E. Warren, R. D. Mason, and M. J. O’Brien)
  - Regional sample stratification: The drainage class technique. *Plains Anthropologist* 26:213–227. (R. E. Warren and M. J. O’Brien)
  - *Plowzone Archaeology: Contributions to Theory and Technique*. Vanderbilt University Publications in Anthropology no. 27. (M. J. O’Brien and D. E. Lewarch, eds.)
  - Effect of short term tillage on aggregate provenience surface pattern. In *Plowzone Archeology: Contributions to Theory and Technique*, edited by M. J. O’Brien and D. E. Lewarch, 8–49. Vanderbilt University Publications in Anthropology no. 27. (D. E. Lewarch and M. J. O’Brien)
  - The expanding role of surface assemblages in archaeological research. *Advances in Archaeological Method and Theory* 4:297–342. (D. E. Lewarch and M. J. O’Brien)
- 1980
- Functional analysis of water control features at Monte Alban, Oaxaca. *World Archaeology* 11:342–355. (M. J. O’Brien, D. E. Lewarch, R. D. Mason, and J. A. Neely)
  - Theoretical considerations concerning the study of hunter–gatherer societies. In *Archaic Adaptations to the Eastern Plains and Prairie/Forest Ecotone*, edited by A. E. Johnson, pp. 113–119. University of Kansas, Publications in Anthropology no. 12.
  - The Cannon Reservoir Human Ecology Project. *Archeology* 33(2):58–61. (M. J. O’Brien and R. E. Warren)
- 1979
- Regional perspectives in historical archaeology: A case example from northeast Missouri. *Proceedings of the 89th Annual Meeting of the Nebraska Academy of Science* 89:2.
  - *The Cannon Reservoir Human Ecology Project: Recent Advances in the Archaeology of Northeast Missouri*. University of Nebraska–Lincoln, Department of Anthropology, Notebook 5. (M. J. O’Brien and D. E. Lewarch, eds.)
  - Recent Approaches to Surface Data and Sampling. Special issue of the *Western*

*Canadian Journal of Anthropology* 8(3). (M. J. O'Brien and D. E. Lewarch, eds.)

- The use of archaeological sampling and survey strategies on an irrigation community in the Valley of Oaxaca, Mexico. In *Recent Approaches to Surface Data and Sampling*, edited by M. J. O'Brien and D. E. Lewarch. *Western Canadian Journal of Anthropology* 8(3):61–74. (M. J. O'Brien, D. E. Lewarch, and R. D. Mason)
  - Intrasite variability in a Middle Mississippian community. In *Recent Approaches to Surface Data and Sampling*, edited by M. J. O'Brien and D. E. Lewarch. *Western Canadian Journal of Anthropology* 8(3):75–88.
- 1978
- More on Mississippian social organization. *Current Anthropology* 19:176–177.
- 1977
- An archeological survey of the Xoxocotlán Piedmont, Oaxaca, Mexico. *American Antiquity* 42:567–575. (R. D. Mason, D. E. Lewarch, M. J. O'Brien, and J. A. Neely)
- 1976
- The Upper Texas Gulf Coast: Environmental variables and human adaptations. *Texas Journal of Science* 27:453–463. (M. J. O'Brien and C. H. Spencer)
  - Settlement and Subsistence Patterns on the Upper Texas Gulf Coast. *Lower Plains Archaeological Society*, Bulletin no. 5.
- 1971
- The Fullen site, 41HR82. *Bulletin of the Texas Archeological Society* 42:335–360.

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#### TECHNICAL REPORTS

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- 1984
- An Analysis of Historical Ceramics from the Central Salt River Valley of Northeast Missouri. University of Missouri-Columbia, American Archaeology Division, Publications in Archaeology no. 3. (T. Majewski and M. J. O'Brien)
- 1983
- Investigations in the Lower Perche-Hinkson Drainage. University of Missouri-Columbia, American Archaeology Division, Publications in Archaeology no. 1. (R. L. Reeder, E. E. Voigt, and M. J. O'Brien)
- 1979
- Cannon Reservoir Human Ecology Project: A Regional Approach to Cultural Continuity and Change. University of Nebraska-Lincoln, Division of Archaeological Research, Technical Report no. 79-13. (M. J. O'Brien and R. E. Warren, eds.)
  - Historical Archaeological Research Design of the Cannon Reservoir Human Ecology Project. University of Nebraska-Lincoln, Division of Archaeological



- Research, Technical Report no. 77–12. (M. J. O’Brien, J. E. Saunders, D. E. Lewarch, and R. D. Mason)
- 1977     ▪   Research Design of the Cannon Reservoir Human Ecology Project. University of Nebraska–Lincoln, Division of Archaeological Research, Technical Report no. 77–01.
- 1974     ▪   The Armand Bayou survey and excavations. In *Archaeological Investigations along Armand Bayou, Harris County, Texas*, edited by F. Hole, pp. 29–77. Rice University, Department of Anthropology, Technical Report no. 2.
- 1972     ▪   Archaeological Survey of the Allen’s Creek Nuclear Power Plant Site. *Texas Archeological Survey*, Technical Report no. 11. (T. Dillehay, M. J. O’Brien, and R. Malouf).

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#### SELECTED BOOK REVIEWS

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- 2005     ▪   “Thinking from Things: Essays in the Philosophy of Archaeology” by Alison Wylie (Berkeley: University of California Press). *American Anthropologist* 107:173–174.
- 2001     ▪   “The Petroglyphs and Pictographs of Missouri” by C. Diaz-Granados and J. R. Duncan (Tuscaloosa: University of Alabama Press). *Arkansas Review: A Journal of Delta Studies* 32:228–229.
- “Bison Hunters of the Western Prairies: Archaeological Investigations at the Dixon Site (13WD8), Woodbury Country, Iowa,” edited by R. L. Fishel (Iowa City, Iowa: Office of the State Archaeologist, Report no. 21). *Annals of Iowa* 60:327.
- 1999     ▪   “Archaeology of the Moundville Chiefdom” edited by V. J. Knight, Jr. and V. P. Steponaitis (Washington, D.C.: Smithsonian Institution Press). *American Antiquity* 64:705–706.
- 1999     ▪   “Sociocultural Evolution” by B. G. Trigger (Oxford: Blackwell). *Journal of Field Archaeology* 26:478–481.
- 1996     ▪   “Prehistory of the Central Mississippi Valley” edited by C. H. McNutt (Tuscaloosa: University of Alabama Press). *Southeastern Archaeology* 15:254–256.
- 1991     ▪   “The Mississippian Emergence” edited by B. D. Smith (Washington, D.C.: Smithsonian Institution Press). *Southeastern Archaeology* 10:147–148.
- 1990     ▪   “Archaeological Method and Theory” (Vol. 1) edited by M. B. Schiffer (Tucson: University of Arizona Press). *American Anthropologist* 92:1027–1028.
- 1986     ▪   “Smiling Dan: Structure and Function at a Middle Woodland Settlement in the Illinois Valley” edited by B. D. Stafford and M. B. Sant, and “Massey and Archie:

A Study of Two Hopewellian Homesteads in the Western Illinois Uplands” by K. B. Farnsworth and A. L. Koski (Center for American Archeology Research Series Vols. 2 and 3). *American Antiquity* 52:415–416.

- 1981
- “Prehistoric Architecture in the Eastern United States” by W. N. Morgan (Cambridge: MIT Press). *Journal of Technology and Culture* 22:780–782.
  - “The Prehistory of Dickson Mounds: The Dickson Excavations” by A. D. Harn, and “Dickson Camp and Pond: Two Early Havana Tradition Sites in the Central Illinois Valley” by A. M. Cantwell (Springfield: Illinois State Museum). *American Antiquity* 47:468–470.

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## REPORTS

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- 1994
- Curation of Archaeological Materials: Goals Accomplished and Work inProgress, 1991–1994. Report submitted to the St. Louis District, U. S. Army Corps of Engineers. (M. J. O’Brien and J. W. Cogswell).
- 1993
- Testing and Evaluation of Sites in the Cedar Creek District, Mark Twain National Forest. Report submitted to the U.S. Forest Service, Rolla, Missouri. (M. J. O’Brien and J. W. Cogswell).
- 1992
- Report on the Completion of Curation of Archaeological Materials from Southeastern Missouri. Report submitted to the National Science Foundation. (M. J. O’Brien, D. M. Pearsall, and R. J. Hoard).
- 1979
- An Archaeological and Historical Survey of a Section of Pike County, Missouri, to be Affected by Proposed Modification of Cuivre River Electric Cooperative Utility Lines. Report submitted to the Cuivre River Electric Cooperative, Troy. (M. J. O’Brien and J. E. Saunders).
  - An Archaeological and Historical Survey of the Area to be Affected by Proposed Improvements to the Industrial Park, City of Mexico, Audrain County, Missouri. Report submitted to the City of Mexico.
- 1977
- Intrasite Variability in a Middle Mississippian Community: The Mound Bottom Archaeological Project. Report submitted to the Division of Archaeology, Department of Conservation, State of Tennessee.
- 1976
- Excavation of a Dallas Component Platform Mound, Anderson County, Tennessee. Report submitted to the Division of Archaeology, Department of Conservation, State of Tennessee.
  - Excavations at Yucuita, Oaxaca, Mexico. Preliminary report submitted to the Institute for Latin American Studies, The University of Texas at Austin and the Instituto Nacional de Antropología e Historia, Mexico, D.F.
- 1975
- Archaeological Fieldwork in Mexico Undertaken by the Department of

Anthropology, 1972–1975. Report submitted to the Institute for Latin American Studies, The University of Texas at Austin.

- 1972
- An Archaeological Assessment of Cultural Resources in the Proposed Allen's Creek Nuclear Power Plant Site. Report submitted to Dames and Moore, Inc., Houston. (T. Dillehay and M. J. O'Brien).
  - An Assessment of Cultural Resources along Taylor Bayou, Harris County, Texas. Report submitted to Friendswood Development Co., Clear Lake City. (F. Hole and M. J. O'Brien).
  - Cultural Resources along Chocolate Bayou, Galveston County, Texas. Report submitted to Monsanto Chemical Co., Houston. (F. Hole and M. J. O'Brien).
- 1971
- An Analysis of Site Location in Southern Harris County, Texas. Report submitted to Friendswood Development Co., Clear Lake City.

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#### SPEAKING ENGAGEMENTS

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- 2019
- Morphospace and stone projectile-point convergence: Mapping functional limits. Presented at the 23rd Evolutionary Biology Meeting at Marseilles, France, September. (M. J. O'Brien and G. R. McGhee)
  - Credentialing of higher education faculty and its irony for interdisciplinary research and teaching (plus a few comments on “certificates”). Presented at the 79th annual meeting of the Society for Applied Anthropology, Portland, Oregon, March.
- 2018
- The entrance of humans into North America. Presented at the University of Tennessee, Knoxville, May.
- 2016
- Humans: The ultimate niche constructors. Presented at the University of Houston, Houston, May.
  - Paradigmatic classification: An integral approach to identifying (and understanding) variation in the archaeological record. Presented at the 2016 meeting of the Classification Society, Columbia, Missouri.
- 2015
- Convergent Evolution and Stone-Tool Technology. The 33rd Altenberg Workshop in Theoretical Biology at the Konrad Lorenz Institute for Evolution and Cognition Research, Klosterneuburg, Austria, September. (Organized by M. J. O'Brien, B. Buchanan, and M. I. Eren)
  - Issues in archaeological studies of convergence. Presented at the 33rd Altenberg Workshop in Theoretical Biology at the Konrad Lorenz Institute for Evolution and Cognition Research, Altenberg, Austria, September. (M. J. O'Brien, B. Buchanan, and M. I. Eren)
  - Why convergence should be a potential hypothesis for the emergence and

occurrence of stone-tool form and production processes: An illustration using replication. Presented at the 33rd Altenberg Workshop in Theoretical Biology at the Konrad Lorenz Institute for Evolution and Cognition Research, Altenberg, Austria, September. (M. I. Eren, B. Buchanan, and M. J. O'Brien)

- Assessing the likelihood of convergence among North American projectile-point types. Presented at the 33rd Altenberg Workshop in Theoretical Biology at the Konrad Lorenz Institute for Evolution and Cognition Research, Altenberg, Austria, September. (B. Buchanan, M. I. Eren, B., and M. J. O'Brien)
  - Paleoindian cultural transmission in eastern North America. Presented at the 27th annual conference of the Human Behavior & Evolution Society, Columbia, Missouri, May. (M. J. O'Brien and M. T. Boulanger)
  - Phylogenetic analysis in archaeology. Presented at the 27th annual conference of the Human Behavior & Evolution Society, Columbia, Missouri, May.
  - Cultural phylogenetics: A new way of looking at the anthropological record. Presented at the University of Tulsa, Tulsa, Oklahoma, November.
- 2014
- A few comments on evolutionary archaeology. Presented at the 79th annual meeting of the Society for American Archaeology, Austin, Texas, April.
- 2013
- Mike Schiffer and the growth of processual archaeology. Presented at the University of Arizona, Tucson, November.
  - What is cultural phylogeny, and how do we model it? Presented at the University of Arizona, November.
  - Mapping cultural trends: How stuff spreads. Presented at the Korea Hydro & Nuclear Power Co., Seoul, March.
  - I'll have what she's having: Mapping collective behavior in the big-data era. Presented at the University of Kansas, May.
  - On the cutting edge: New methods and theory for analyzing stone tools. Workshop at the Amerind Foundation, Dragoon, Arizona, September. (Organized by M. J. O'Brien, B. Buchanan, and M. Collard)
  - Phylogenetics and stone tools; Some basic issues. Presented at the Amerind Foundation, Dragoon, Arizona, September. (M. J. O'Brien, B. Buchanan, and M. Collard)
- 2012
- What is cultural phylogeny, and how do we model it? Presented at the 15th annual Evolutionary Biology Meeting at Marseilles, Marseilles, France, September.
  - What is cultural phylogeny? Presented at Washington State University, Pullman, October.
  - Cultural phylogenetics: A new way of looking at the anthropological record. Presented at Vanderbilt University, Nashville, Tennessee, November.

- Paleoindian cultural transmission in eastern North America. Presented at the 34th International Congress of Americanists, Vienna, Austria.
  - Cultural exaptations: What are they, and how can we recognize them? Presented at Durham, University, Durham, U.K., April.
  - Applying cladistics to cultural traits: Some basic issues. Presented at the University of Bristol, Bristol, U.K., April.
  - From Chaco to Paquimé: The bow, arrow, and political complexity. Presented at the 77th annual meeting of the Society for American Archaeology, Memphis, Tennessee, April. (T. L. VanPool and M. J. O'Brien)
  - Cultural transmission among Eastern fluted-point cultures. Presented at the 77th annual meeting of the Society for American Archaeology, Memphis, Tennessee, April. (M. T. Boulanger and M. J. O'Brien)
  - Niche construction theory: A key concept in evolutionary studies. Presented at the 77th annual meeting of the Society for American Archaeology, Memphis, Tennessee, April.
- 2011
- Cultural Niche Construction. The 27th Altenberg Workshop in Theoretical Biology at the Konrad Lorenz Institute for Evolution and Cognition Research, Altenberg, Austria, September. (Organized by K. N. Laland and M. J. O'Brien)
  - Cultural niche construction: An introduction. Presented at the 27th Altenberg Workshop in Theoretical Biology at the Konrad Lorenz Institute for Evolution and Cognition Research, Altenberg, Austria, September. (K. N. Laland and M. J. O'Brien)
  - Social versus individual learning of prehistoric material culture: Patterns in archaeological data. Presented at the 2011 annual meeting of the American Anthropological Association, Montreal, Quebec, Canada, November. (R. A. Bentley and M. J. O'Brien)
  - Innovation in the American Paleolithic: Morphometric and phylogenetic analysis of Eastern Paleoindian projectile points. Presented at the 76th annual meeting of the Society for American Archaeology, Sacramento, California, April. (M. T. Boulanger, M. J. O'Brien, and J. Darwent)
- 2010
- Mike Schiffer and the evolution of technology. Presented at the 74th annual meeting of the Society for American Archaeology, St. Louis, Missouri, April.
  - Lee Lyman: An introduction. Presented at the 76th annual meeting of the Society for American Archaeology, Sacramento, California, April.
- 2009
- Cultural phylogenetics: Issues and prospects. Presented at the Workshop Clasificación y Arqueología: Enfoques y Métodos Taxonómicos a la Luz de la Evolución Darwiniana, University of Seville, Seville, Spain, July.

- Innovation and selection in Paleoindian projectile points. Presented at the 74th annual meeting of the Society for American Archaeology, Atlanta, April. (T. L. VanPool, M. J. O'Brien, and R. L. Lyman)
  - Niche construction theory and archaeology: The case of agricultural origins. Presented at Simon Fraser University, Vancouver.
  - Galton's problem: Analogy vs. homology and why it matters. Mid-America Linguistics Conference Workshop on Bantu Syntax. Columbia, Missouri, October.
- 2008
- The growth of evolutionary theory, 1944–1968. Presented at the University of Minnesota, Minneapolis, March.
  - Taxonomy wars: The American Museum of Natural History vs. the Kansas Museum of National History. Presented at the University of Minnesota, Minneapolis, March.
  - Cultural phylogenetic classification: Some fundamental issues. Presented at the 2008 meeting of the Classification Society, St. Louis, Missouri, May.
  - Cultural phylogenies: How do we recognize them? Presented at Stanford University, Palo Alto, California, May.
- 2007
- Innovation in Cultural Systems: Contributions from Evolutionary Anthropology. The 17th Altenberg Workshop in Theoretical Biology at the Konrad Lorenz Institute for Evolution and Cognition Research, Altenberg, Austria, September. (Organized by M. J. O'Brien and S. J. Shennan)
- 2006
- Constructing and using cultural phylogenies. Presented at the University of Vienna, January.
  - Epistemological issues involved in cultural phylogenetics. Roundtable presentation at the Konrad Lorenz Institute, Altenberg, Austria, January.
  - What is cultural phylogeny, and how do we recognize it? Presented at the 15th Congress of International Union for Prehistoric and Protohistoric Sciences Lisbon, Portugal, June.
- 2005
- Archaeological phylogenetics: Issues and prospects. Presented at the University of British Columbia, October.
  - Cultural transmission is not a unidimensional, monolithic entity. Presented at the conference "Pattern and Process in Cultural Evolution," University College London, September.
  - Archaeology as a Process: Processualism and Its Progeny. Forum held at the 70th annual meeting of the Society for American Archaeology, Salt Lake City, March–April. (M. J. O'Brien, R. L. Lyman, M. B. Schiffer, and J. Grathwohl)

- 2004
- Archaeological systematics on the Great Plains. Presented at the 69th annual meeting of the Society for American Archaeology, Montreal, April. (M. J. O'Brien and R. L. Lyman)
- 2003
- Some issues in the creation of cultural phylogenies. Presented at the 51st International Congress of Americanists, Santiago, Chile, July.
  - The promise and challenges of phylogenetic methods for measuring relatedness in the archaeological record. Presented at the 68th annual meeting of the Society for American Archaeology, Milwaukee, Wisconsin, April. (C. P. Lipo and M. J. O'Brien)
  - Using cladistics to reconstruct lineages of Archaic projectile points in northeastern Missouri. Presented at the 68th annual meeting of the Society for American Archaeology, Milwaukee, Wisconsin, April. (J. A. Darwent and M. J. O'Brien)
  - Seriated artifacts as phylogenetic tests of the applicability of cladistics. Presented at the 68th annual meeting of the Society for American Archaeology, Milwaukee, April. (R. L. Lyman and M. J. O'Brien)
- 2001
- Constructing phylogenetic hypotheses in archaeology: The case for cladistics. Presented at the annual meeting of the Human Behavior and Evolution Society, London, June.
  - History of archaeological research in the lower Mississippi Valley. Presented at the 66th annual meeting of the Society for American Archaeology, New Orleans, April.
  - A historical sequence for southeastern Paleoindian points. Presented at the 66th annual meeting of the Society for American Archaeology, New Orleans, April. (J. Darwent, M. J. O'Brien, and R. L. Lyman)
- 2000
- Cladistics and archaeological phylogeny. Presented at the 2do Reunion Internacional de Teoria Arqueologica en America del Sur, Olavarria, Argentina, October.
  - Nels Nelson and the continuous measure of time. Presented at the 65th annual meeting of the Society for American Archaeology, Philadelphia, April.
  - Southeastern fluted-point lineages. Presented at the 65th annual meeting of the Society for American Archaeology, Philadelphia, April. (M. J. O'Brien, J. Darwent and R. L. Lyman)
- 1999
- Classification, systematics, typology: The critical step in evolutionary archaeology. Presented at the 64th annual meeting of the Society for American Archaeology, Chicago, April. (M. J. O'Brien and R. L. Lyman)
  - Studying complexity in the archaeological record: A matter of scale and units. Presented at the 64th annual meeting of the Society for American Archaeology,

- Chicago, April. (M. J. O'Brien, K. Y. Smith, R. D. Leonard, and R. L. Lyman)
- Methodological challenges of an evolutionary archaeology. Presented at the 64th annual meeting of the Society for American Archaeology, Chicago, April. (M. J. O'Brien and R. L. Lyman)
  - Dating the Miami mastodon. Presented at the 64th annual meeting of the Society for American Archaeology, Chicago, April. (A. Earley, J. Feathers, R. C. Dunnell, and M. J. O'Brien)
  - The applicability of paleobiological systematics to the archaeological record. Presented at the 64th annual meeting of the Society for American Archaeology, Chicago, April. (M. J. O'Brien, R. L. Lyman, and S. Wolverton)
- 1998
- Variation in stone tools from Turner and Snodgrass, southeastern Missouri. Presented at the 63rd annual meeting of the Society for American Archaeology, Seattle, March. (E. Gilliland and M. J. O'Brien)
  - Turner and Snodgrass ceramics: Intrasite distributions and comparison between sites. Presented at the 63rd annual meeting of the Society for American Archaeology, Seattle, March. (M. K. Strode and M. J. O'Brien)
  - Prehistoric footwear of North America. Presented at the 15th annual Visiting Scholar's Conference, Southern Illinois University at Carbondale, April. (J. T. Kuttruff, G. DeHart, and M. J. O'Brien)
- 1997
- The 1933 excavations at the Marksville site by Frank M. Setzler and James A. Ford. Presented at the Southeastern Archaeological Conference, Baton Rouge, Louisiana, November. (L. C. Kuttruff, M. J. O'Brien, and R. L. Lyman)
  - Fiber, fabric, and footwear from Arnold Research Cave, Missouri. Presented at the Southeastern Archaeological Conference, Baton Rouge, Louisiana, November. (J. T. Kuttruff, G. DeHart, and M. J. O'Brien)
  - The Bureau of American Ethnology and its legacy to Southeastern Archaeology. Presented at the 62nd annual meeting of the Society for American Archaeology, Nashville, Tennessee, April. (M. J. O'Brien and R. L. Lyman)
  - Technological and compositional analysis of sand-tempered pottery from southeastern Missouri. Presented at the 62nd annual meeting of the Society for American Archaeology, Nashville, Tennessee, April. (J. W. Cogswell, H. Neff, M. D. Glascock, and M. J. O'Brien)
- 1996
- Postmanufacture effects on the chemical characterization of prehistoric pottery: Evidence from the central Mississippi River valley. Presented at the 30th International Symposium on Archaeometry, Urbana, Illinois, May. (J. W. Cogswell, L. M. Ross, Jr., H. Neff, M. D. Glascock, and M. J. O'Brien)
  - Neutron-activation analysis of pottery from Pinson Mounds and nearby sites in western Tennessee: Local production vs. long-distance importation. Presented at the



- 61st annual meeting of the Society for American Archaeology, New Orleans, April. (J. W. Cogswell, R. C. Mainfort, Jr., H. Neff, M. D. Glascock, and M. J. O'Brien)
- 1995
- Analysis of postdepositional effects on prehistoric ceramics from southeastern Missouri: Implications for provenance studies. Presented at the 60th annual meeting of the Society for American Archaeology, Minneapolis, April. (J. W. Cogswell, L. M. Ross, Jr., H. Neff, M. D. Glascock, and M. J. O'Brien)
- 1994
- The historical development of an evolutionary archaeology. Presented at the 59th annual meeting of the Society for American Archaeology, Anaheim, California, April.
  - Neutron activation analysis of Campbell Appliquéd pottery from southeastern Missouri and western Tennessee: Implications for late Mississippian intersite relations. Presented at the 59th annual meeting of the Society for American Archaeology, Anaheim, California, April. (J. W. Cogswell, M. J. O'Brien, R. C. Mainfort, Jr., H. Neff, and M. D. Glascock)
- 1993
- Late-period phases and assemblage variation in southeastern Missouri. Presented at the 58th annual meeting of the Society for American Archaeology, St. Louis, April.
- 1992
- Behavioral archaeology and the extended phenotype. Presented at the 57th annual meeting of the Society for American Archaeology, Pittsburgh, April. (M. J. O'Brien and T. D. Holland)
- 1991
- Evolutionary selectionism and the role of archaeometry. Presented at the 56th annual meeting of the Society for American Archaeology, New Orleans, April. (M. J. O'Brien and T. D. Holland)
  - The role of adaptation in archaeological explanation. Presented at the 56<sup>th</sup> annual meeting of the Society for American Archaeology, New Orleans, April. (M. J. O'Brien and T. D. Holland)
- 1986
- Specialized domestication and Middle Woodland groups in the riverine Midwest. Presented at the 3rd annual Visiting Scholar's Conference, Southern Illinois University at Carbondale, March.
- 1985
- The impact of federal archaeology in the American Midwest. Presented at the 50th annual meeting of the Society for American Archaeology, Denver, May. (M. J. O'Brien and W. R. Wood)
  - Intensive surface collection and sample excavation of a Middle Woodland Havana community. Presented at the 50th annual meeting of the Society for American Archaeology, Denver, May.
- 1983
- Geoarchaeological investigations in the Western Lowlands of Missouri. Presented at the annual Midwest Archaeological Conference, Iowa City, Iowa, October.
- 1982
- A model of frontier settlement dynamics. Presented at the annual meeting of the Missouri Anthropological Association, Warrensburg, October.

- Digital enhancement of aerial photographs: An example from the central Mississippi River valley. Presented at the spring meeting of the Missouri Association of Professional Archaeologists, Eminence, March.
- Internal variation in a Mississippian site: The Ste. Genevieve Project. Presented at the 46th annual meeting of the Society for American Archaeology, San Diego, April–May.
- An Archaic projectile point sequence from the southern Prairie Peninsula. Presented at the annual Midwest Archaeological Conference, Chicago, October.
- Systematic determination of historical site eligibility to the National Register of Historic Places. Presented at the spring meeting of the Missouri Association of Professional Archaeologists, St. Louis, March.
  - Regional perspectives in historical archeology: A case example from northeast Missouri. Presented at the 89th annual meeting of the Nebraska Academy of Science, Lincoln, April.
- Research design of the Cannon Reservoir Human Ecology Project. Presented at the 36th annual Plains Conference, Denver, November.
  - An analysis of radiocarbon dates from Cannon Reservoir. Presented at the 36th annual Plains Conference, Denver, November.
- Theoretical considerations concerning the study of hunter-gatherer societies. Presented at the 35th annual Plains Conference, Lincoln, Nebraska, November.
- An analysis of intrahouse variability in a large Mississippian community. Presented at the annual meeting of the Texas Archeological Society, Houston, October.
- Political evolution in the Central Highlands of Mesoamerica. Houston Museum of Natural History Symposium on Mesoamerican Prehistory, Houston, April.
- Irrigation and settlement nucleation at Monte Alban: A test of models. Presented at the 38th annual meeting of the Society for American Archaeology, San Francisco, May. (M. J. O’Brien and J. A. Neely)
- Settlement patterns on the Upper Texas Gulf Coast. Presented at the annual meeting of the Texas Archeological Society, Austin, October.

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## FUNDING SOURCES

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- U.S. Army Corps of Engineers, \$19,000, “Curation of Archaeological Materials from Kansas City District Sites”

- 2006
  - U.S. Army Corps of Engineers, \$26,000, “Analysis of Archaeological Materials from St. Louis District Sites”
  
- 2005
  - National Science Foundation, \$339,635, “Archaeometry” (with M. D. Glascock and R. J. Speakman)
  - U.S. Army Corps of Engineers, \$34,000, “Analysis of Archaeological Materials from St. Louis District Sites”
  
- 2003
  - U.S. Army Corps of Engineers, \$31,000, “Analysis of Archaeological Materials from St. Louis District Sites”
  
- 2002
  - National Science Foundation, \$329,982, “Archaeometry” (with M. D. Glascock and H. Neff)
  
- 2000
  - National Archives and Records Administration, \$19,524, “Rehabilitating the Carl H. Chapman Archaeological Records”
  
- 1999
  - Missouri Department of Natural Resources, \$22,529, “Resurvey of Missouri Archaeology Project-ReMAP”
  - Burns & McDonnell, \$17,401, “Survey of Municipal Waterlines in and around the City of Jackson, Missouri”
  
- 1998
  - University of Missouri Research Board, \$13,692, “Dating of Loess and Mastodon Bone, Saline County, Missouri”
  
- 1997
  - U.S. Army Corps of Engineers, \$121,000, “Cataloging of Archaeological Materials from Kansas City District Sites”
  - U.S. Army Corps of Engineers, Waterways Experiment Station, \$132,000, “Examination of Archaeological Properties at Fort Leonard Wood, Missouri”
  - U.S. Army Corps of Engineers, \$136,000, “Cataloging of Archaeological Materials from St. Louis District Sites”
  
- 1996
  - U.S. Army Corps of Engineers, \$138,000, “Cataloging of Archaeological Materials from Kansas City District Sites”
  - U.S. Army Corps of Engineers, Waterways Experiment Station, \$123,000, “Examination of Archaeological Properties at Fort Leonard Wood, Missouri”
  
- 1995
  - National Science Foundation, \$775,000, “Renovation of Chemistry Research Space, University of Missouri” (with J. Bauman and J. Atwood)
  - U.S. Army Corps of Engineers, \$164,000, “Descriptive Analysis of Archaeological Materials from St. Louis District Sites”
  - National Park Service, \$22,000, “Archaeological Investigations at the U. S. Grant House”

- 1994
  - City of Columbia, Missouri, \$3,000, “Special Museum Projects”
  - U.S. Army Corps of Engineers, \$10,000, “Cultural-Resource Inventory, Mark Twain Lake”
- 1993
  - University of Missouri Office of the Vice Provost for Research, \$93,000, “Scientific Equipment for Archaeology”
  - Missouri Department of Natural Resources, \$48,000, “Archaeological Survey of Missouri”
- 1992
  - U.S. Army Corps of Engineers, \$15,000, “Review of Cultural Resources, Mark Twain Lake”
  - National Park Service, \$14,000, “Additional Archaeological Investigations at Alley Springs”
  - U.S. Forest Service, \$31,000, “Curation of Archaeological Properties and Assessment of Six Sites”
- 1991
  - U.S. Army Corps of Engineers, \$48,000, “The Archaeology of Missouri” (preparation of a book-length manuscript) (with W. R. Wood)
  - National Park Service, \$35,000, “Archaeological Investigations at Alley Springs”
  - University of Missouri Office of the Vice Chancellor for Administrative Services, \$500,000, “Construction of the Museum of Anthropology Museum Support Center”
- 1990
  - U.S. Army Corps of Engineers, \$1,043,000, “Curation of Federal Archaeological Properties”
- 1989
  - National Science Foundation, \$113,000, “Curation of Archaeological Collections from Southeastern Missouri”
  - State of Missouri Office of Administration, \$115,000, “Archaeological Research at Towosahgy”
  - Smithsonian Institution, \$770, “Short-Term Visitor Grant”
  - U.S. Army Corps of Engineers, \$8,000, “Curation of Archaeological Properties”
  - University of Missouri Office of the Vice President for Academic Affairs, \$20,000, “Development of a Natural-History-Collections Management Plan”
  - National Park Service, \$10,000, “Archaeological Survey and Testing in Ozark National Scenic Riverways”
  - Wenner Gren Foundation, \$6,000, “Analysis of Archaeological Materials from Ste. Genevieve, Missouri”
  - University of Missouri Weldon Spring Fund, \$10,000, “Intercampus Humanities

- Scholars Seminar”
- 1988
- Center for Field Research, \$16,000, “Archaeological Excavations at Saline Creek”
  - Missouri Department of Natural Resources, \$16,000, “Archaeological Survey of Missouri, Maintenance and Upgrade”
  - Missouri Historical Society, \$3,000, “Saline Creek Archival Work”
  - University of Missouri-Columbia Office of the Chancellor, \$10,000, “Archaeological Excavation of Francis Quadrangle”
  - University of Missouri Weldon Spring Fund, \$16,000, “Application of a Geographic Information System for Environmental-Impact Assessment” (with J. Asquith)
  - University of Missouri Weldon Spring Fund, \$26,000, “Intercampus Humanities Scholars Seminar”
- 1987
- U.S. Army Corps of Engineers, \$93,000, “Development of a Middle Mississippi River Historic-Properties Project”
  - National Endowment for the Humanities, \$123,000, “Archaeology of the Saline Creek Valley, Missouri”
  - Weyerheuser Corporation, \$5,000, “Analysis of Ste. Genevieve Archival Materials”
  - Missouri Historical Society, \$6,000, “Translation of Spanish Archival Materials Related to Ste. Genevieve”
- 1986
- Center for Field Research, \$11,000, “Archaeological Excavations at Saline Creek, Missouri”
  - National Park Service, \$9,000, “Archaeological Testing of Site 23DE7”
- 1985
- Missouri Highway and Transportation Department, \$240,000, “Archaeological Excavation at Old Monroe, Missouri”
  - University of Missouri Weldon Spring Fund, \$30,000, “An Analysis of Prehistoric Resource-Selection Strategies in the Central Mississippi River Valley”
  - University of Missouri Weldon Spring Fund, \$28,000, “Studies in the Natural and Cultural History of Ste. Genevieve through Tree-Ring Analysis” (with R. Guyette)
  - U.S. Army Corps of Engineers, \$30,000, “Analysis of Archaeological Materials from the Cannon Reservoir Human Ecology Project”
  - North Dakota Humanities Council, \$2,000, “Remote Sensing of the Ft. Clark Historic Site” (with W. R. Wood)
  - Center for Field Research, \$16,000, “The Archaeology of Early Ste. Genevieve:

The Saline Creek Project”

- 1983     ▪ U.S. Army Corps of Engineers, \$10,000, “Excavation of the Bauman Site, Ste. Genevieve, Missouri”
  
- 1982     ▪ Missouri Highway and Transportation Department, \$30,000, “Archaeological Excavations in Butler County, Missouri”
  
- Missouri Highway and Transportation Department, \$12,000, “Testing of Archaeological Sites to Be Affected by the Route 63 Relocation”
  
- 1980     ▪ U.S. Army Corps of Engineers, \$59,000, “Analysis of Archaeological Materials from the Cannon Reservoir Human Ecology Project”
  
- Environmental Protection Agency and the City of Columbia, Missouri, \$183,000, “Excavation of Archaeological Sites to Be Affected by the Perche Creek Outfall Lines”