

Thomas S. Dye, Archaeologist

Current Position

Affiliate	Graduate Faculty, University of Hawai‘i at Mānoa
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Education

PhD	Anthropology, Yale University (1987)
MPhil	Anthropology, Yale University (1983)
BA	Anthropology, University of Hawai‘i at Mānoa (1980)

Archaeology Positions Held

2022	Lecturer, How Archaeology Works, University of Hawai‘i at Mānoa
2016–2019	Lecturer, Hawaiian Archaeology, University of Hawai‘i at Mānoa
2001–2018	President, T. S. Dye & Colleagues, Archaeologists, Inc., Honolulu
2015	Lecturer, Hawaiian Archaeology and Pacific Islands Archaeology, University of Hawai‘i at Mānoa
2008	Lecturer, Assemblage Analyses in Archaeology, University of Hawai‘i at Mānoa
1997–2001	Associate Archaeologist, Project Manager, International Archaeological Research Institute, Inc., Honolulu
1997	Lecturer, Historic Preservation, University of Hawai‘i at Mānoa
1991–1997	O‘ahu Island Archaeologist, Department of Land and Natural Resources, State of Hawai‘i
1987–1991	Associate Professor of Anthropology, Hawai‘i Pacific University, Honolulu

1987	Research Associate, B. P. Bishop Museum, Honolulu
1984–1985	Associate Anthropologist, B. P. Bishop Museum, Honolulu
1977–1978	Staff Archaeologist, B. P. Bishop Museum, Honolulu

Professional Memberships

Archaeology	Society for American Archaeology
Archaeology	Society for Hawaiian Archaeology (lapsed), Past President, Past Editor of <i>Hawaiian Archaeology</i>
History	Hawaiian Historical Society, Past President, Past Editor of <i>Hawaiian Journal of History</i>
Science	Sigma Xi
Software	Free Software Foundation

Selected Publications

- Bayman, James M., Thomas S. Dye, and Timothy M. Rieth. 2021. “States without correlates? A report from Hawai‘i.” *Journal of Pacific Archaeology* 12 (1): 47–59.
- Dye, Thomas S. 2021. “A case for Handy and Puku‘i’s ethnographic reconstruction of the Polynesian family system in Hawai‘i.” *Journal of the Polynesian Society* 130 (1): 45–68.
- Moody, Bryony, Tom Dye, Keith May, Holly Wright, and Caitlin Buck. 2021. “Digital chronological data reuse in archaeology: Three case studies with varying purposes and perspectives.” *Journal of Archaeological Science: Reports* 40:103188. <https://doi.org/10.1016/j.jasrep.2021.103188>.

- DiVito, Nathaniel J., Thomas S. Dye, Kawena Elkington, JoLynn Gunness, Eric Hellebrand, Elaine Jourdane, Steven Lundblad, Nicole Mello, Peter R. Mills, and John M. Sinton. 2020. "Volcanic Glass at Kualoa, O'ahu, Hawaiian Islands: Paired technological and geochemical sourcing analyses of an expedient tool industry." *Journal of Archaeological Science: Reports* 30:102117.
- Dye, Thomas S., and Jennifer G. Kahn. 2020. "Functional classification of Hawaiian curved-edge adzes and gouges." *Journal of Pacific Archaeology* 11 (2): 124–132.
- Marwick, Ben, Jade d'Alpoim Guedes, C. Michael Barton, Lynsey A. Bates, Michael Baxter, Andrew Beavan, Elizabeth A. Bollwerk, et al. 2017. "Open science in archaeology." *SAA Archaeological Record* 17 (4): 8–14.
- Dye, Thomas S. 2016. "Long-term rhythms in the development of Hawaiian social stratification." *Journal of Archaeological Science* 71:1–9.
- . 2015. "Dating human dispersal in Remote Oceania: A Bayesian view from Hawai'i." *World Archaeology* 47 (4): 661–676.
- Dye, Thomas S., and Caitlin E. Buck. 2015. "Archaeological sequence diagrams and Bayesian chronological models." *Journal of Archaeological Science* 63:84–93.
- Kahn, Jennifer G., and Thomas S. Dye. 2015. "A note on Hawaiian stone axes." *Journal of Pacific Archaeology* 6 (1): 18–25.
- Athens, J. Stephen, Timothy M. Rieth, and Thomas S. Dye. 2014. "A paleoenvironmental and archaeological model-based age estimate for the colonization of Hawai'i." *American Antiquity* 79 (1): 144–155.
- Dye, Thomas S. 2014a. "Structure and growth of the leeward Kohala field system: An analysis with directed graphs." *PLoS ONE* 9 (7). <http://dx.doi.org/10.1371/journal.pone.0102431>.
- . 2014b. "Wealth in old Hawai'i: Good year economics and the rise of pristine states." *Archaeology in Oceania* 49 (2): 59–85.
- Bayman, James M., and Thomas S. Dye. 2013. *Hawaii's Past in a World of Pacific Islands*. Washington, DC: SAA Press.

- Dye, Thomas S., and Carl E. Sholin. 2013. "Changing patterns of firewood use on the Waimānalo Plain." *Hawaiian Archaeology* 13:30–68.
- Dye, Thomas S. 2012. "Hawaiian temples and Bayesian chronology." *Antiquity* 86 (334): 1202–1206.
- Schulte, Eric, Dan Davison, Thomas Dye, and Carsten Dominik. 2012. "A multi-language computing environment for literate programming and reproducible research." *Journal of Statistical Software* 46, no. 3 (January): 1–24. <http://www.jstatsoft.org/v46/i03/paper>.
- Dye, Thomas S. 2011a. "A model-based age estimate for Polynesian colonization of Hawai'i." *Archaeology in Oceania* 46:130–138.
- . 2011b. "The tempo of change in the leeward Kohala field system, Hawai'i Island." *Rapa Nui Journal* 25 (2): 21–30.
- , ed. 2010a. *Research Designs for Hawaiian Archaeology: Agriculture, Architecture, Methodology*. Special Publications 3. Honolulu: Society for Hawaiian Archaeology.
- . 2010b. "Social transformation in old Hawai'i: A bottom-up approach." *American Antiquity* 75 (4): 727–741.
- . 2010c. "Traditional Hawaiian surface architecture: Absolute and relative dating." In Dye 2010a, chap. 2.
- Dye, Thomas S., and Jeffrey Pantaleo. 2010. "Age of the O18 site, Hawai'i." *Archaeology in Oceania* 45:113–119.
- Dye, Thomas S. 2004. "How to fix the inventory survey rule." *Hawaiian Archaeology* 9:123–132.
- Dye, Thomas S., and Ken Longenecker. 2004. *Manual of Hawaiian Fish Remains Identification*. Special Publication 1. Honolulu, HI: Society for Hawaiian Archaeology / Bishop Museum Press.
- Dye, Thomas S., and H. David Tuggle. 2001. "Land snail extinctions at Kalaeloa, O'ahu." *Internet Archaeology* 10. <http://intarch.ac.uk/journal/issue10/dye/toc.html>.

- Dye, Thomas S. 2000. "Effects of ^{14}C sample selection in archaeology: An example from Hawai'i." *Radiocarbon* 42 (2): 203–217.
- Dye, Thomas S., and H. David Tuggle. 1998. "Land snail extinctions at Kalaeloa, O'ahu." *Pacific Science* 52 (2): 111–140.
- Dye, Thomas S. 1996. "Assemblage definition, analytic methods, and sources of variability in the interpretation of Marquesan subsistence change." *Asian Perspectives* 35:73–88.
- Dye, Thomas S., and William R. Dickinson. 1996. "Sources of sand tempers in prehistoric Tongan pottery." *Geoarchaeology* 11:141–164.
- Dye, Thomas S. 1995. "Comparing ^{14}C histograms: An approach based on approximate randomization techniques." *Radiocarbon* 37 (3): 851–859.
- . 1994a. "Apparent ages of marine shells: Implications for archaeological dating in Hawai'i." *Radiocarbon* 36:51–57.
- . 1994b. "Comment on Gordon, "Screen size and differential faunal recovery: A Hawaiian example"." *Journal of Field Archaeology* 21:391–392.
- . 1994c. "Population trends in Hawai'i before 1778." *Hawaiian Journal of History* 28:1–20.
- . 1992. "The South Point radiocarbon dates 30 years later." *New Zealand Journal of Archaeology* 14:89–97.
- Dye, Thomas S., and Eric K. Komori. 1992a. "A pre-censal population history of Hawai'i." *New Zealand Journal of Archaeology* 14:113–128.
- . 1992b. "Computer programs for creating cumulative probability curves and annual frequency distribution diagrams with radiocarbon dates." *New Zealand Journal of Archaeology* 14:35–43.
- Dye, Thomas S. 1991. "A reputation unmade: J. F. G. Stokes's career in Hawaiian archaeology." In Stokes 1991, 3–20.
- Stokes, John F. G. 1991. *Heiau of the Island of Hawai'i: A Historic Survey of Native Hawaiian Temple Sites*. Bishop Museum Bulletin in Anthropology 2. Edited and introduced by Tom Dye. Honolulu, HI: Bishop Museum.

- Dye, Thomas S. 1990a. "Marine turtle bones from an archaeological site in Polynesia yield reliable age determinations." *Radiocarbon* 32:143–147.
- . 1990b. "The causes and consequences of a decline in the prehistoric Marquesan fishing industry." In *Pacific production systems: Approaches to economic prehistory*, edited by Douglas E. Yen and J. M. J. Mummery, 70–84. Occasional Papers in Prehistory 18. Canberra, AU: Department of Prehistory, Research School of Pacific Studies, The Australian National University.
- Dye, Thomas S., and Paul L. Cleghorn. 1990. "Prehistoric use of the interior of Southern Guam." *Micronesica*, 261–274.
- Dye, Thomas S., and David W. Steadman. 1990. "Polynesian ancestors and their animal world." *American Scientist* 78:207–215.
- Dye, Thomas S. 1989. "Tales of two cultures: Traditional historical and archaeological interpretations of Hawaiian prehistory." *Bishop Museum Occasional Papers* 29:3–22.
- Pregill, Gregory K., and Thomas S. Dye. 1989. "Prehistoric extinction of giant iguanas in Tonga." *Copeia* 1989:505–508.
- Dye, Thomas S., ed. 1987a. *Marshall Islands Archaeology*. Pacific Anthropological Records 38. Honolulu: Anthropology Department, B. P. Bishop Museum.
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- . 1980. "The linguistic position of Niuafo'ou." *Journal of the Polynesian Society* 89:349–357.
- Kirch, Patrick V., and Thomas S. Dye. 1979. "Ethno-archaeology and the development of Polynesian fishing strategies." *Journal of the Polynesian Society* 88:53–76.

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Honolulu, Hawai'i, September 13, 2022