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## BEN MARWICK

### education

Ph.D., Archaeology and Natural History, Australian National University, 2008.

Dissertation: *Stone artefacts and human ecology at two rockshelters in Northwest Thailand*

M.A., Archaeology, University of Western Australia, 2002.

Dissertation: *Inland Pilbara Archaeology: A Study of Variation in Aboriginal Occupation over Time and Space on the Hamersley Plateau*

B.A. (Hons.), First Class, University of Western Australia, 1999.

### employment

Professor in Archaeology, University of Washington, 2021–present.

Associate Professor in Archaeology, University of Washington, 2015–2021.

Senior Research Fellow (ARC Future Fellow), University of Wollongong, 2015–2018.

Assistant Professor in Archaeology, University of Washington, 2008–2015.

Consultant Archaeologist, Huonbrook Environment and Heritage, South Australia, 2006–2008.

Research Associate, Society, State and Governance in Melanesia Project and The Pacific Centre, Research School of Pacific and Asian Studies, The Australian National University, 2006–2008.

### research projects & grants

Falcucci, A. et al. RStone Global: A project on experimental archaeology, quantitative lithic analysis, R programming, open science, and science communication and Marine Isotope Stage 3 (MIS3) African archaeology. Marie Skłodowska-Curie Actions - Postdoctoral Fellowship secondment host

Bo Li ; Prof Qiaomei Fu ; Dr Jianhui Liu ; Prof Lingxia Zhao ; Dr Feng Gao ; Dr Benjamin Marwick, University of Wollongong “Out of Africa: human prehistory in southwestern China” Australian Research Council Discovery Project DP210100717

Kansa, Sarah and 30 others. “Advancing FAIR+CARE Practices in Cultural Heritage” Institute of Museum and Library Services (IMLS) National Leadership Grants program.

Marwick, B. “Geoarchaeological Research of sediment samples from Angkor, Cambodia” UW Quaternary Research Center (awarded Mar 2019, TDC USD 6144)

Marwick, B. “Palaeolithic syntheses in East and Southeast Asia” Wenner Gren Foundation (awarded Mar 2019, TDC USD 30,000)

- Marwick, B. "New Palaeolithic archaeology excavations at Padahlin Cave, Myanmar" National Geographic Society (awarded Nov 2018, TDC USD 28,560)
- Marwick, B. 'Palaeolithic archaeology in Myanmar and western Thailand" Australian Research Council Future Fellowship (awarded Sept 2014, TDC AUD 640,000)
- Louys, J., B. Marwick, J. Stevenson, G. Price. "Super-volcanos and the human evolutionary trajectory: examining the ecological impacts of the Toba eruption on late Pleistocene hominids and fauna." Leakey Foundation (awarded April 2014, TDC USD 12,552)
- Marwick, B. Deutscher Akademischer Austausch Dienst, Research Visit Travel Grant (awarded 2014, sole PI, TDC USD 6,000)
- Marwick, B. "Micromorphology at key archaeological sites at the end of the arc of modern human dispersal", UW Royalty Research Fund, (awarded 2014, sole PI, TDC USD 31,005)
- Marwick, B and S. Kwak. "Long-term chronology of subsistence and the role of intensive rice agriculture in the central part of the prehistoric Korean peninsula", National Science Foundation Doctoral Dissertation Research Improvement Grant, (awarded 2013, PI with graduate student, TDC USD 23,373)
- Roberts, R., Mokhtar Saidin, Ben Marwick, Dong Truong Nguyen, Nigel Spooner, Regina DeWitt, Anatoly Rosenfeld, Zenobia Jacobs, Bo Li, Susanna Guatelli, C. Clarkson, Adam Brumm and Kat Szabó "Out of Asia: unique insights into human evolution and interactions using frontier technologies in archaeological science". Australian Research Council (awarded 2013, TDC AUD 3,182,338)
- Lewis, H. and B. Marwick, University College Dublin Seed Funding. University College Dublin (awarded 2012, Co-PI, TDC EUR 5,200.00)
- Marwick, B. Vice Provost's International Faculty Exchange Grant (awarded 2012, PI, TDC USD 3500)
- Marwick, B. "Investigating modern human origins and early behavioural complexity in Australia", UW Office of Research Trans-Pacific Early Career Academic Fellowship (awarded 2011, sole PI, TDC USD 13,125)
- Marwick, B. UW Office of Global Affairs Herbert H. Gowen International Studies Award (awarded 2011, sole PI, TDC USD 2,500)
- O'Connor. S., J. Fenner, J. Stevenson, K. Dobney, B. Marwick, E. St Pierre and G. Larson "The Archaeology of Sulawesi: A Strategic Island for Understanding Modern Human Colonization and Interactions Across our Region", Australian Research Council (awarded 2010, Co-PI, TDC AUD 1,757,919)
- Clarkson, C., B. Marwick, L. Wallis, M. Smith and R. Fullgar "Modern Human Origins and Early Behavioural Complexity in Australia and South East Asia", Australian Research Council (awarded 2010). (Co-PI, TDC AUD 1,189,790)
- Marwick, B. UW Centre for Statistics in the Social Sciences Undergraduate Research Grant (awarded 2010, sole PI, TDC USD 4,480)

Marwick, B. UW Office of Global Affairs Herbert H. Gowen International Studies Award (awarded 2010, sole PI, TDC USD 5,000)

Marwick, B. UW Centre for Statistics in the Social Sciences Seed Grant (awarded 2009, sole PI, TDC USD 18,347)

Marwick, B. Dorothy Cameron Prize for best archaeological publication at The Australian National University (awarded 2008, AUD 500)

Marwick, B. Postgraduate Research Grant, Australian Institute of Nuclear Science and Technology (awarded 2007, sole PI, TDC AUD 5,000)

#### **professional awards**

Fellow, Project TIER, Haverford University (awarded 2019, sole PI, TDC USD 5,000)

Fellow, Technology Teaching Institute, UW Center for Teaching and Learning (awarded 2013, sole PI, TDC USD 7,000)

Post-Doctoral Fellow, ACLS/Luce Foundation (Awarded 2010, sole PI, TDC USD 35,000)

#### **talks & presentations**

##### *Invited scholarly talks and workshops (since 2009)*

Marwick, B. 2025. "Invited Workshop:Extracting sunlight from cucumbers: How to make computationally intensive archaeological science useful, transparent, and reproducible." "Exploring Data-Driven Solutions to Archaeological Problems", Abu Dhabi Center, New York University, Jan 15-18, 2025, <https://doi.org/10.5281/zenodo.14897252>

Marwick, B. 2025. "Invited Workshop:Extracting sunlight from cucumbers: How to make computationally intensive archaeological science useful, transparent, and reproducible." "Codecheck workshop for the Digital Humanities", Leiden University Centre for Digital Humanities, 14 Feb 2025

Marwick, B. 2024. "Invited Workshop: Introduction to Open Science for Archaeological Data Science" I organised and led a three day, in-person workshop at the Interdisciplinary Center for Archaeology and the Evolution of Human Behaviour (ICArEHB), University of Algarve, Faro, Portugal Department of Archaeology, 3-5 June 2024, <http://doi.org/10.17605/OSF.IO/PB3WH>

Marwick, B. 2023. "Invited Workshop: SEAMEO SPAFA's "Archaeology Ethics in Southeast Asia" series Session I: Introduction" SEAMEO SPAFA's Archaeology Ethics in Southeast Asia series, 7 Dec 2023

Marwick, B. 2023. "Invited Workshop: Reputational risk and questionable research practices in archaeological science" Wenner-Gren Workshop organized by Jess Beck and Laura Heath-Stout, Socio-Politics of Knowledge Production in Anthropology and Archaeology, 12 Oct 2023

Marwick, B. 2023. "Invited Seminar: Better Archaeology Through Bitcoin." Interdisciplinary Archaeology Workshop, University of Chicago Anthropology Department, 27 Feb 2023, slides: <http://doi.org/10.17605/OSF.IO/AGRVJ>

- Marwick, B. 2023. "Invited Workshop: Using R for reproducible, transparent and open archaeological research." Interdisciplinary Archaeology Workshop, University of Chicago Anthropology Department, 27 Feb 2023
- Marwick, B. 2023. "Invited Seminar: Effective Archaeological Science: How can we best communicate our quantitative research to help others?" Australasian Research Cluster for Archaeological Science Workshop on good statistical practice in archaeology, 8-11 Feb 2023, slides: <https://benmarwick.github.io/arcas-workshop-good-stat-practice/arcas-workshop-good-stat-practice.html#/title-slide>
- Marwick, B. 2023. "Invited Keynote: Better Archaeology Through Bitcoin." Paper presented at the Digital Archaeology Bern meeting, Bern, Switzerland, 1-3 Feb 2023, slides: <http://doi.org/10.17605/OSF.IO/AGRVJ>
- Marwick, B. 2022. "Invited Seminar: Like the layers of an onion: Reproducibility and Transparency for quantitative research". Durham University's RIOT Science club, 19 Oct 2022, remote, slides: <https://osf.io/mj4k3/>
- Shafizadeh, S. and B. Marwick 2021. "Levallois Technology in Iran: Analysis of assemblages from Cheshmeh-Agha, Farsan and Mirak". Poster at the International Symposium of Knappable Materials, remote, Tarragona, Spain, 4-7th October 2021, <https://www.a.fundacio.urv.cat/congressos/13iskm2021/home> Data & R code: <https://github.com/benmarwick/ISKM2021-Setareh-Marwick-Iran>
- Thompson, Tj., B. Marwick, N. Mitchell, R. Fullagar, L. Wallis, M. Smith, & C. Clarkson 2021. "Artefact orientations and site formation processes at Madjedbebe, northern Australia". Presentation at the International Symposium of Knappable Materials, remote, Tarragona, Spain, 4-7th October 2021, <https://www.a.fundacio.urv.cat/congressos/13iskm2021/home> Data & R code online at <https://github.com/benmarwick/mjblithicorientations>
- Craig, J., B. Marwick, D. Bulbeck, Suryatman, S. O'Connor. 2021. "Stabilizing Selection in Informal Stone Artifact Technologies and Procurement Strategies at Talimbue, Sulawesi, Indonesia". Presentation at the International Symposium of Knappable Materials, Tarragona, Spain, 4-7th October 2021, remote, <https://www.a.fundacio.urv.cat/congressos/13iskm2021/home> Data & R code online at <https://github.com/benmarwick/talimbuelithics>
- Habedank, Q., I. A. Osuna, T. S. Pham, B. Marwick 2021. "Late Pleistocene flaked artefact morphometry and technology at Mau A, northern Vietnam". Presentation at the International Symposium of Knappable Materials, remote, Tarragona, Spain, 4-7th October 2021, <https://www.a.fundacio.urv.cat/congressos/13iskm2021/home> Data & code: <https://github.com/benmarwick/maualithics>
- Marwick, B. 2021. "Mechanisms in archaeological explanation: Is a palaeo-sociology possible? Presentation at the Workshop Mecabiosoc. Mechanisms in Biol-

- ogy and the Social Sciences. Uned. Senda del Rey. 28040 Madrid, 27th-28th September, remote, slides
- Marwick, B. 2021. "Digital Ecosystems in Archaeological Science: A History and Taxonomy of R packages in Archaeology. Presentation at the Computer Applications and Quantitative Methods in Archaeology Conference. 14-18 June 2021, remote, <https://github.com/benmarwick/CAA2021>
- Wang, L. and B. Marwick 2021. "A Bayesian network modeling approach to examine social changes using burial data. Presentation at the Computer Applications and Quantitative Methods in Archaeology Conference. 14-18 June 2021, remote
- Marwick, B., D. Matzig, F. Reide 2021. "Bayesian inference of material culture phylogenies using continuous traits from the archaeological record. Presentation at the Cultural Evolution Society Conference, Sapporo, remote, Japan, 9-11 June 2021 <https://github.com/benmarwick/CES2021>, Presentation at the International Symposium of Knappable Materials, remote, Tarragona, Spain, 4-7th October 2021 <https://wwwa.fundacio.urv.cat/congressos/13iskm2021/home>
- Marwick, B. 2021. "Doing modern archaeological science: what are the options for openness? Invited presentation for IsoArcH: Open Science in Archaeology, A United Kingdom Reproducibility Network Workshop, 20 May 2021, <https://osf.io/w2gqe/>
- Marwick, B. 2022. "Like the layers of an onion: Reproducibility and Transparency for quantitative research. University of Wollongong Data and Decision Science Network meeting, 29 April 2022, remote, slides: <https://osf.io/5n6k9>
- Panelist on PEMSEA Panel 6: The Future Southeast Asian Archaeology in the U.S. (13 Sept 2021) This panel discussion was part of a series hosted by the Program on Early Modern Southeast Asia. [https://www.facebook.com/watch/live/?ref=watch\\_permalink&v=396716412049347](https://www.facebook.com/watch/live/?ref=watch_permalink&v=396716412049347)
- Marwick, B. 2021. "Improving the transparency and reproducibility of historical archaeological research: A case study in teaching how slavery ended at New River Village, Nevis. Presentation Digital Archaeological Archive of Comparative Slavery Conversations Series. 25 June 2021, remote, <https://www.daacs.org/research/discover-with-daacs/>
- Marwick, B. 2021. "Let's Connect. Celebrating the 100th episode of the Down Ancient Trails Series: & Celebrating the discovery of the first Palaeolithic artefact in India on 30th May, 1863. Invited presentation for the Sharma Center for Heritage, Chennai, India. 31 May, remote
- Marwick, B. and Pham Thahn Son 2021 "An Update on the Sonvian-Hoabinhian Controversy: Shape Analysis of Flakes and Cores from Mau A, Northern Vietnam" Paper presented at the Society of American Archaeology Annual Meeting, April 2021.

- Chen, Y and B. Marwick 2021 “Correlations between Gender and Research Topics at Three Major Archaeology Conferences.” Paper presented at the Society of American Archaeology Annual Meeting, April 2021.
- Wang, L. and B. Marwick 2021 “Bayesian Exponential Random Graph Modeling of an Iron Age Burial Network in Northeastern Taiwan.” Paper presented at the Society of American Archaeology Annual Meeting, April 2021.
- Park, G. and B. Marwick 2021 “Understanding the transition of technology and subsistence strategies, based on cultural evolution during the Late Pleistocene in Korea.” Paper presented at the Cross Disciplinary Approaches to Prehistoric Demography – CROSSDEM21, <https://events.au.dk/crossdem2021>
- Wang, L. and B. Marwick 2020 ”The practice of open science in archaeology using R and online digital repositories in a case study research.” Poster presented at the Computer Applications and Quantitative Methods in Archaeology, 2020, <https://sites.caa-international.org/au/2020-conference-poster-session/>
- “Dialogues with the Past - Nordic Graduate School in Archaeology: Reproducible Quantitative Research in Archaeology: Doing Open Science Archaeology (using R)” I was the lead instructor for a four-day remote workshop with 10 students at Scandinavian universities <https://www.hf.uio.no/iakh/english/research/dialogues-with-the-past/courses/reproducible-quantitative-research-in-archaeology-.html> & <https://osf.io/hrqnu/>
- “Galisonian Logic Devices as Affordances for Decolonizing Archaeology” Remote presentation in the Garrod Research seminar series of the McDonald Institute for Archaeological Research, University of Cambridge. 18 Feb 2021, <https://www.youtube.com/watch?v=iJzhOZ7Auo>
- “Open Access, Open Data, and Open Methods: Three steps to transparency that are redefining archaeological science” Remote keynote for ARCHON Day at the ARCHON Research School for Archaeology, Amsterdam, the Netherlands. 30 October 2020. <http://doi.org/10.17605/OSF.IO/9XNMG>
- “Tool-Driven Revolutions in Archaeological Science: Open Source and Open Science as Transcendental Tools” Remote Seminar for The Archaeological Information Interest Group at the Archaeology Centre at the University of Toronto, 24 September 2020 3pm <https://www.youtube.com/watch?v=VKVlcMCLmo4>
- Marwick, B. “Reproducible geoscience research: Stratigraphic data visualization using R” for the Vietnam National University Geology Department, Hanoi 17 May, 2020 [online]
- Marwick, B. “How did modern humans make their way into mainland Southeast Asia? New data on the Paleolithic from excavations in China, Myanmar, Vietnam, and Australia”, Down Ancient Trails Seminar Series, Sharma Centre for Heritage Education, India, 12 May 2020 [online]

- Marwick, B. “[Reproducible geoscience research: Mapping using R](#)” for the Vietnam National University Geology Department, Hanoi 10 May, 2020 [online]
- Marwick, B. “The landscape of open data, data sharing, and data reuse in archaeology”, hosted by the Arctic section of the NSF Office of Polar Programs, 21-22 April 2020 [online]
- Marwick, B. “How did modern humans make their way into mainland Southeast Asia? New data on the Paleolithic from excavations in China, Myanmar, Vietnam, and Australia”, for the Department of Archaeology, Sichuan University, China, 27 Mar 2020 [online]
- Marwick, B. “[Reproducible Research in Archaeology and Anthropology](#)”, for the Brown University Anthropology Department 9 Dec, 2019 [online]
- Marwick, B. “Making sense of the Sonvian: Cultural taxonomies in the Palaeolithic of mainland Southeast Asia” for the workshop ‘All these fantastic cultures? Cultural taxonomies in the Palaeolithic - old questions, novel perspectives’, Aarhus University, Sandbjerg Estate, Denmark, 25-30 Nov, 2019
- Marwick, B. “Experiences of Archaeological field research in Myanmar, Vietnam and Australia” for the Department of Anthropology, National Taiwan University, Taipei, Taiwan, 27 Sept 2019
- Marwick, B. “How did modern humans make their way into mainland Southeast Asia? New data on the Paleolithic from excavations in China, Myanmar, Vietnam, and Australia”, for the workshop “New Practices in Late Palaeolithic Archaeology and Lithic Analysis” for the Department of Anthropology, National Cheng Kung University, Tainan, Taiwan, 25 Sept 2019
- Marwick, B. “Lithic data analysis using R” for the Department of Anthropology, National Cheng Kung University, Tainan, Taiwan, 24 Sept 2019
- Marwick, B. “[Using R and related tools for reproducible research in Archaeology](#)” for the Department of Anthropology, National Cheng Kung University, Tainan, Taiwan, 23 Sept 2019
- Marwick, B. “[Pseudoarchaeology as stigmatised knowledge: Why is this dangerous to society?](#)” for the Department of Anthropology, National Taiwan University, Taipei, Taiwan, 19 Sept 2019
- Marwick, B. “Using R to write reports and journal articles” for the Department of Anthropology, National Taiwan University, Taipei, Taiwan, 18 Sept 2019
- Marwick, B. “How did modern humans make their way into mainland Southeast Asia? New data on the Paleolithic from excavations in China, Myanmar, Vietnam, and Australia”, for the workshop “New Practices in Late Palaeolithic Archaeology and Lithic Analysis”, Department of Anthropology, National Taiwan University, Taipei, Taiwan, 17 Sept 2019
- Marwick, B. “Using R and Related Tools for Reproducible Research in Stone Artefact Archaeology”, for the workshop “New Practices in Late Palaeolithic Archae-

- ology and Lithic Analysis”, Department of Anthropology, National Taiwan University, Taipei, Taiwan, 17 Sept 2019
- Marwick, B. “Transparent and Reproducible Archaeological Research Using Open Data Science Tools” for the MORPH2019 Conference, Sendai, Japan, 14 Sept 2019
- Marwick, B. “Moving on from Movius: Recent research in Pleistocene archaeology in Myanmar”, Palaeolithic & Quaternary seminar series National Museum of Ethnology, Osaka, Japan, 12 Sept 2019
- Marwick, B. “Transparent and Reproducible Archaeological Research Using Open Data Science Tools” for the National Research Institute for Cultural Properties, Nara, Japan, 11 Sept 2019
- Marwick, B. “Git for Archaeological Science” for the National Research Institute for Cultural Properties, Nara, Japan, 10 Sept 2019
- Marwick, B. “Modern tools and approaches to scientific data management, analysis, visualization, collaboration in archaeology and cultural heritage” for the National Research Institute for Cultural Properties, Nara, Japan, 10 Sept 2019
- Marwick, B. “Open Access, Open Data, and Open Methods: Three steps to transparency that are redefining archaeological science” for the National Research Institute for Cultural Properties, Nara, Japan, 10 Sept 2019
- Marwick, B. “Reproducibility and Transparency in Archaeology: Ongoing work and activities”. Invited workshop presentation at the Project TIER Fellows Conference. Haverford College, Philadelphia, 4 June 2019
- Marwick, B. Writing reproducible research with R and Markdown. Invited workshop presentation at the UW Center for Statistics and the Social Sciences (CSSS) 20th Anniversary Conference. UW-Seattle, 23 May 2019, WA.
- Marwick, B. “Community Data Science meets Digital Heritage: Controversies about World Heritage Sites in the Online Community of Wikipedia”, keynote presentation for the conference ‘Digital Heritage in a World of Big Data’, University of Stirling, Scotland, 14 May, 2019
- Marwick, B. “Big Data and Tool-driven Revolutions in Archaeological Science” for the Archaeology Department of Environment Heritage Scotland, Edinburgh 13 May, 2019
- Marwick, B. “Writing reproducible research with R and Markdown”. Invited workshop presentation at the Northwest Data Science Summit. UW-Seattle, 8 May 2019, WA.
- Marwick, B. “Big Data and Tool-driven Revolutions in Archaeological Science” for the conference ‘Big Data in Archaeology: Practicalities and Possibilities’ at University of Cambridge, 27-28 March, 2019
- Marwick, B. “Making archaeological science transparent, open and reproducible with R and friends: A short workshop” Institute of Archaeology, University

- College London, 6 March, 2019
- Marwick, B. "How did modern humans make their way into mainland Southeast Asia? New data on the Paleolithic from excavations in China, Myanmar, Vietnam, and Australia", Institute of Archaeology, University College London, 7 March, 2019
- Marwick, B. "Emerging norms in open data and open methods", Paris Dialogue on Archaeological Lidar, l'École française d'Extrême-Orient (Paris), 11 Dec, 2018
- Marwick, B. "Moving on from Movius: Recent research in Pleistocene archaeology in Myanmar", Palaeolithic & Quaternary seminar series, Oxford University, 29 Nov 2018
- Marwick, B. "Four ordered principles to improve the reproducibility of research", All Souls College, Oxford University, 28 Nov 2018
- Marwick, B. "Making archaeological science transparent, open and reproducible with R and friends: A short workshop", School of Archaeology, Oxford University, 28 Nov 2018
- Marwick, B. "How did modern humans make their way into mainland Southeast Asia? New data on the Paleolithic from excavations in China, Myanmar, Vietnam, and Australia", Invited presentation, University of Oxford, Institute of Archaeology, Palaeolithic & Quaternary seminar, 29 Nov 2018
- Marwick, B. "Four ordered principles to improve the reproducibility of research"=, Invited presentation, University of Oxford, All Souls College, 28 Nov 2018
- Marwick, B. "How did modern humans make their way into mainland Southeast Asia? New data on the Paleolithic from excavations in China, Myanmar, Vietnam, and Australia", Invited presentation, University of Oregon, Department of Anthropology and the Center for Asia and Pacific Studies, 23 Oct 2018
- Marwick, B. "Open Access, Open Data, and Open Methods: Three steps to transparency that are redefining archaeological science", Invited presentation, University of Oregon, Department of Anthropology, 22 Oct 2018
- Marwick, B. *Southeast & East Asian Social Sciences Workshops for Transparency and Reproducibility*. A series of invited talks and workshops at Silpakorn University, Bangkok, Vietnam National University, Hanoi, National Taiwan University, Taipei, and Seoul National University, Seoul. September 8-20, 2018
- Marwick, B. "Archaeological Science, Archaeology of Science, and Tools for Closing the Gap between Practice and Ideals" Invited presentation, US-Serbia & West Balkan Data Science Workshop, Belgrade, Serbia, August 26-28 2018.
- Marwick, B. Convener and Chair, *Roundtable Discussion on Myanmar and the Rohingya Crisis* UW Southeast Asia Centre, 11 Jan 2018, Seattle, with 5 UW faculty panelists
- Marwick, B. 2018. "Adaptations to sea level change and transitions to agriculture at Khao Toh Chong rockshelter, Peninsular Thailand", Invited presentation,

- Washington State University, 18 Jan 2018
- Marwick, B. 2017 “Madjedbebe, Australia’s earliest archaeological site Site formation, artefact movement and human behaviour”, Invited workshop presentation at the ‘Using Archaeological Sciences to Address Human Behaviour’ workshop, University of Tübingen, Germany, 12-17 Nov, 2017
- Marwick, B. 2017. “rrtools: writing reproducible research”, Invited workshop presentation presented at the DataONE WholeTale ‘Prov-a-thon’, University of Illinois, August 31–September 1, 2017
- Marwick, B. 2017. “Extracting Sunbeams Out of Cucumbers: Why Archaeology Isn’t a Science, and How It Can Become One” Keynote presentation, Summer School on Computational Archaeology, Freie Universität Berlin, 17-21 July 2017
- Marwick, B. 2017. “A Practising Academic’s View of Field Data Collection Technologies.” Workshop on Archaeological Database Evaluation, Cotsen Institute of Archaeology, UCLA, Jun, 9, 2017. Invited Presentation.
- Marwick, B. 2017. “Reproducible Research Compendia via R packages.” ZüKoSt: Seminar on Applied Statistics, ETH-Zurich, Mar, 2, 2017. Invited Presentation.
- Marwick, B. 2017. “Using R in the development sector in Myanmar and Vietnam: Benefits, challenges, and impacts of open source tools for working with data.” Mathematical and Data Sciences for Development Forum, ETH-Zurich, Mar, 1, 2017. Invited Presentation.
- Marwick, B. 2017. “The Galisonian program, hard cores, and mirror recursion in Archaeological science.” Conference on Critical Perspectives on the Practice of Digital Archaeology, Harvard University, Feb, 3, 2017. Keynote Presentation.
- Marwick, B. 2016. “Geoarchaeology of tektites in mainland Southeast Asia.” Symposium on Anh Khe Archaeology, Institute of Archaeology, Vietnam, Oct, 30, 2016. Invited Presentation.
- Marwick, B. 2016. “Computational reproducibility in research and teaching: A case study from archaeology.” University of Wollongong National Institute for Applied Statistics Research Australia, May, 25, 2016. Invited Presentation.
- Marwick, B. 2016. “Moving on from Movius: Recent research in Pleistocene archaeology in Myanmar.” Monash University Archaeology Department, Melbourne, May, 17, 2016. Invited Presentation.
- Marwick, B. 2016. “Computational Reproducibility in Archaeological Research: Basic Principles and a Case Study of Their Implementation.” Monash University Econometrics and Business Statistics, Melbourne, May, 17, 2016. Invited Presentation.
- Marwick, B. 2016. “Mau A and the Hoabinhian-Sonvian transition.” Vietnam Institute of Archaeology, Hanoi, Vietnam, 6 May 2016. Invited Presentation.

- Marwick, B. 2015. "Three styles of Darwinian evolution in the analysis of stone artefacts Which one to use in East/Southeast Asia?" Department of History, Kyung Hee University, Seoul, Korea, Mar 3, 2015. Invited Presentation.
- Marwick, B. 2014. "Palaeolithic archaeology in mainland Southeast Asia". Department of Archaeology, University of Yangon, Myanmar. Jan 19, 2014. Invited Presentation.
- Marwick, B. 2014. "A primer on reproducible research: Basic principles and common tools". Department of Applied Mathematics and Theoretical Physics, University of Cambridge. Nov 11, 2014. Invited Presentation.
- Marwick, B. 2013. "Research Report on Middle Holocene Research in mainland Southeast Asia". Southeast Asia Archaeology Workshop, University of Hawaii-Manoa, April 2013. Invited Presentation.
- Marwick, B. 2013 "The Hoabinhian of Southeast Asia and its relationship to global Pleistocene lithic technologies". International Symposium on the Palaeolithic Cultures in Taiwan and Its Surrounding Areas, Academia Sinica, Taitung, Taiwan, 29-31 March 2013. Invited Presentation.
- Marwick, B. 2013 "Pleistocene lithic technologies in Mainland Southeast Asia: How does the Hoabinhian fit in?" International Conference on Recent Advances in the Archaeology of East and Southeast Asia. University of Wisconsin-Madison, Wisconsin, USA, March 15-16, 2013. Invited Presentation.
- Marwick, B. 2012 "Cultural Phylogenetics of Religion using Thai and Lao Bronze Buddha Statues". Department of Archaeology, University College Dublin, Ireland. Nov 22, 2012. Invited Presentation.
- Marwick, B. 2009 "Pleistocene Exchange Networks as Evidence of Language Evolution". UBC/SFU Human Evolution, Culture and Cognition seminar series, UBC, Vancouver, Canada. Invited presentation

*Contributed scholarly talks & presentations (since 2009)*

- Park, G., M. Lombard, C. Donghee and Ben Marwick 2023. "Variation in use of East Asian Late Paleolithic weapons: A study of tip cross-sectional area of stemmed points from Korea". Paper presented at the Society of American Archaeology Annual Meeting, April 2023.
- Marwick, B. and L. Wang [Teaching Integrity in Empirical Archaeology With Replication Assignments](#). Poster presented at the UW Centre for Teaching and Learning Symposium, 2 April 2020
- Wang, L. and B. Marwick. Investigating social change during cultural contact period using geometric morphometry of artifact shapes from Iron Age Northeast Taiwan. Paper presented at the MORPH2019 meeting, 14-15 Sept, 2019, Sendai, Japan.

- Marwick, B. Four tools for writing reproducible research. Lightening presentation at the Northwest Data Science Summit. UW-Seattle, 8 May 2019, WA.
- Schnee, I and B. Marwick [Active Enough? Assessing the Impact of Screens in Active-Learning Classrooms](#). Poster presented at the UW Centre for Teaching and Learning Symposium, 17 April 2019 Winner Best Research Poster Prize.
- Marwick, B. Invited discussant in the session "Paradigms Shift: New Interpretations in Mainland Southeast Asian Archaeology", Society of American Archaeology meeting, 10-14 April, 2019, Albuquerque, NM.
- Marwick, B. and L. Wang [Identifying Signatures of Selection in Archaeological Sequences](#). Presentation delivered at the Society of American Archaeology meeting, 10-14 April, 2019, Albuquerque, NM. (I was also co-chair of this session "Practical Approaches to Identifying Evolutionary Processes in the Archaeological Record" with Enrico Crema)
- Park, G. and B. Marwick. [Change in Mobility and Site Occupation during the Late Pleistocene in Korea](#). Poster presented at the Society of American Archaeology meeting, 10-14 April, 2019, Albuquerque, NM.
- Wang, L. and B. Marwick. [Investigating craft specialization and pottery standardization using geometric morphometry of vessel shapes from Iron Age Northeast Taiwan](#). Poster presented at the Society of American Archaeology meeting, 10-14 April, 2019, Albuquerque, NM.
- Marwick, B. Over-Research in International Archaeology. Presentation delivered at the Indo-Pacific Prehistory Association Congress, 23-28 September 2018, Hue, Vietnam
- Marwick, B. Nguyen Thi Mai Huong, Nguyen Tho Dinh, Pham Thanh Son, Nguyen Anh Tuan, Maria Schaarschmidt, Conor Mcadams, and Richard Roberts. New Excavations at Nguom Rockshelter, Northern Vietnam: Insights into Pre-Hoabinhian Technology in Mainland Southeast Asia. Presentation delivered at the Indo-Pacific Prehistory Association Congress, 23-28 September 2018, Hue, Vietnam
- Marwick, B. et al. [Modeling the Innovation and Extinction of Archaeological Ideas](#), presentation at the Society of American Archaeology meeting, 13-15 April, 2018, Washington DC.
- Marwick, B. and S. Schmidt 2018. ["Reproducible research in archaeology using R & rrtools"](#), presentation at the Computer Applications and Quantitative Methods in Archaeology (CAA) Annual Conference, 2018, Tubingen, Germany, 19-21 Mar 2018.
- Marwick, B. et al. 2017 "Stratigraphy, site formation, and artefact taphonomy at Madjedbebe, NT" presentation at the Australian Archaeological Association Conference, 2017, Melbourne, Australia, 6-8 Dec 2017.

- Yue H., B. Marwick, W. Huang, J. Zhang and B. Li 2017. "Middle Pleistocene Lithic Technology at Guanyingdong, Guizhou Province, China". Peer-reviewed presentation at the Society of American Archaeology conference, Apr 2017, Vancouver.
- Marwick, B. 2017. "Moving on from Movius: Recent research in Pleistocene archaeology in Myanmar". Peer-reviewed presentation at the Society of American Archaeology conference, Apr 2017, Vancouver.
- Conrad, C., C. Higham, M. Eda and B. Marwick 2016 "Hunter-Gatherer Foraging Adaptations at Spirit Cave and Banyan Valley Cave (Mae Hong Son Province, Northwest Thailand) During the Late Pleistocene and Holocene." Peer-reviewed presentation at the SEAMO-SPAFA conference, Apr 2016, Bangkok, Thailand.
- Kretzler, I., J. Whittaker and B. Marwick 2015. "Grand Challenges vs Actual Challenges: Text Mining Small and Big Data for Quantitative Insights". Peer-reviewed presentation at the Society of American Archaeology conference, Apr 2015, San Francisco.
- Marwick, B. 2015 "[Reproducible Research in Archaeology: Basic Principles and Common Tools](#)". Peer-reviewed presentation at the Society of American Archaeology conference, Apr 2015, San Francisco.
- De Boer, D., Zara Steinhart , Ben Marwick, David Bulbeck and Sue O'Connor. 2015 "Stone Artefacts from Southeast Sulawesi: Technology Beyond the Toalean". Peer-reviewed presentation at the Society of American Archaeology conference, Apr 2015, San Francisco.
- Marwick, B. and Maloney, T. 2014 "[Elliptical Fourier Analysis Unravels a Palimpsest of Point Technology in the Kimberley, Western Australia](#)". Peer-reviewed presentation at the Society of American Archaeology conference, Apr 2014, Austin.
- Kretzler, I. and B. Marwick 2014 "[Understanding Archaeological History Through Textual Macroanalysis: The Role of Feminism in Gender Research](#)". Peer-reviewed presentation at the Society of American Archaeology conference, Apr 2014, Austin.
- Sonethongkham, S. and B. Marwick 2014 "Variation in cores excavated from four rockshelter sites in Luang Prabang Province, Lao PDR". Peer-reviewed presentation at the Indo-Pacific Prehistory Association conference, Jan 2014, Siam Reap.
- Marwick, B. and S. Sonethongkham 2014 "Patterns in Holocene flaked artefact technology from excavations in Luang Prabang Province, Lao PDR". Peer-reviewed presentation at the Indo-Pacific Prehistory Association conference, Jan 2014, Siam Reap.
- Marwick, B. C. Clarkson, S. O'Connor and S. Collins 2014 "Pleistocene lithic technology from East Timor: remarkable long term stability in technological be-

- haviours". Peer-reviewed presentation at the Indo-Pacific Prehistory Association conference, Jan 2014, Siam Reap.
- Hayes, E., R. Fullagar, C. Clarkson, M. Smith and B. Marwick 2014 "Pleistocene evidence for seed grinding in Australia". Peer-reviewed presentation at the Indo-Pacific Prehistory Association conference, Jan 2014, Siam Reap.
- Steele, T, A. Mackay, K. Fitzsimmons, B. Marwick, J. Orton, S. Schwartz, M. Stahlschmidt 2014 "Varsche Rivier 003: A Middle Stone Age site with Still Bay and Howiesons Poort assemblages in southern Namaqualand, South Africa." Peer-reviewed presentation at the European Society for the study of Human Evolution (ESHE). 18-20 September, 2014, Florence, Italy.
- Clarkson, C., M. Smith, B. Marwick, R. Fullagar, T. Manne, K. Lowe, X. Carah, A. Florin, A. Fairbairn, C. Pardoe and L. Wallis 2014 "Excavations at Malakunanja II, northern Australia", Peer-reviewed presentation at the Indo-Pacific Prehistory Association conference, Jan 2014, Siam Reap.
- Clarkson, C., M. Smith, R. Fullagar, B. Marwick, T. Manne, L. Wallis, Z. Jacobs, R. Roberts, K. Lowe, A. Florin, X. Carah, C. Pardoe and E. Hayes 2013 "Report on new research at Madgedbebe (Malakunanja II)". Peer-reviewed presentation at the Australian Archaeological Association Annual Conference, Dec 2013, Coff's Harbour.
- Wallis, L., C. Pardoe, T. Manne, K. M. Lowe, J. Matthews, C. Clarkson, B. Marwick, R. Fullagar and M. Smith 2013 "Much more than just an old site: Human remains from the 2012 excavations at Madgedbebe, western Arnhem Land, Australia". Peer-reviewed presentation at the Australian Archaeological Association Annual Conference, Dec 2013, Coff's Harbour.
- Lowe, K. L. A. Wallis, C. Pardoe, B. Marwick C. Clarkson, T. Manne, M. Smith and R. Fullagar. 2013 "Ground-penetrating radar, GIS and burial practices in western Arnhem Land, Australia". Peer-reviewed presentation at the Australian Archaeological Association Annual Conference, Dec 2013, Coff's Harbour.
- Hayes, E. R. Fullagar, C. Clarkson, B. Marwick, M. Smith, L. Wallis and T. Manne, 2013 "Pleistocene evidence for seed grinding in Australia". Peer-reviewed presentation at the Australian Archaeological Association Annual Conference, Dec 2013, Coff's Harbour.
- Florin, A., C. Clarkson, A. Fairbairn, R. Fullagar, B. Marwick, L. Wallis, X. Carah, T. Manne and M. Smith. 2013 "Archaeobotanical investigations into plant food use at Madgedbebe (Malakunanja II)". Peer-reviewed presentation at the Australian Archaeological Association Annual Conference, Dec 2013, Coff's Harbour.
- Marwick, B. E. Hayes and C. Clarkson 2013 "Movement of lithics by trampling: An experiment in the Malakunanja II sediments". Peer-reviewed poster at the So-

- society of American Archaeology Annual Meeting, April 3-7, Honolulu, Hawaii. 2013
- Macy, K., B. Marwick, B. S. Hanyu, C. Conrad and A. Mackay 2013 "Where did the dirt come from? Geochemical sediment tracing at Klipfonteinrand rockshelter, western South Africa". Peer-reviewed poster at the Society of American Archaeology Annual Meeting, April 3-7, Honolulu, Hawaii. 2013
- Bulbeck, D., B. Marwick, S. O'Connor, F. Aziz, A. Calo, J. Fenner, B. Hakim, A. Oktaviana and E. St Pierre 2013 "Archaeology of Lake Towuti: Survey and Excavation in South Sulawesi". Peer-reviewed poster at the Society of American Archaeology Annual Meeting, April 3-7, Honolulu, Hawaii. 2013
- Marwick, B., P. Hiscock, P. Hughes and M. Sullivan. 2013 "The use of mobile Geographic Information Systems for intensive archaeological survey in arid north-eastern South Australia". Peer-reviewed presentation at the Computer Applications and Quantitative Methods in Archaeology Conference, University of Western Australia, Perth, Australia, March 18-21, 2013
- Marwick, B. "How archaeologists explain (and how they ought to): Theory and practice of explanation in Australian archaeology". Peer-reviewed presentation at the Australian Archaeological Association, Wollongong, Australia, Dec 2012.
- Marwick, B, Anna Cohen, S. Kwak, K. Macy and A. Cowan 2011 "Geoarchaeology of Iron Age ceramics at Tham Sua Cave, Northern Lao PDR". Peer-reviewed poster at the Society of American Archaeology Annual Meeting, Sacramento, CA.
- Marwick, B, T. Field, J. Martinez, P. Przystupa, K. Abbott, K. Macy, L. Minchik, P. Hughes and M. Sullivan 2010. "Landscape archaeology in arid northeast South Australia: Preliminary investigations into relationships between site distributions, surface geology, water sources and wind patterns". Peer-reviewed poster at the Australian Association of Archaeology Annual Conference, Bateman's Bay, New South Wales.
- Marwick, B, S. O'Connor and S. Collins 2010. "Pleistocene-aged stone artefacts from Jerimalai, East Timor: Early modern human technology in island Southeast Asia". Peer-reviewed presentation at the 13th International Conference of the European Association of Southeast Asian Archaeologists (EurASEAA), Berlin, Germany.
- Marwick, B and Vanpheng Keopanna 2010. "A pilot study of Geometric morphometric analysis of bronze Buddha craft traditions in the Lao PDR". Peer-reviewed presentation at the 13th International Conference of the European Association of Southeast Asian Archaeologists (EurASEAA), Berlin, Germany.
- Marwick, B, 2010. "Do Model-based explanations suit archaeology better than Inference to the Best Explanation?" Peer-reviewed presentation at the Society of American Archaeology Annual Meeting, St Louis, MO.

Marwick, B, Ariel Auerbach and A. Cowan 2009. "Geoarchaeology at Tham Sua Cave, Luang Prabang Province, Lao PDR". Peer-reviewed presentation at the Indo-Pacific Prehistory Association Congress, Hanoi, Vietnam.

Brockwell, S., B. Marwick, P. Bourke, P. Faulkner, R. Willan 2009. "Climate change records from North Australian cultural midden deposits: evidence from a pilot study of oxygen isotopes in mollusc shells". Peer-reviewed presentation at the Australian Archaeological Association Annual Conference, Flinders University, Adelaide, South Australia.

#### **Service**

##### *Professional service*

- Vice-President of the Society of Archaeological Sciences (2020-2023)
- Chair of the Society of American Archaeology Open Science Interest Group (2017-present)
- Co-chair of the committee for the Institute for Southeast Asian Archaeology Early Career Award in Archaeology (2017-2022)
- Member, Society of American Archaeology publications committee (2017-2023)
- Advisory Board member, United Kingdom Reproducibility Network (2018-present)
- External promotion reviewer, University of British Columbia (2021)
- External reappointment reviewer, McDonald Institute for Archaeological Research, Department of Archaeology, University of Cambridge (2020)
- External promotion reviewer, University of Stirling (2020)
- External Doctoral examiner, Department of Archaeology, University of Belgrade (2022)
- External Doctoral examiner, McDonald Institute for Archaeological Research, University of Cambridge (2022)
- External Doctoral examiner, Institute for Geoinformatics, University of Münster (2021)
- External Doctoral examiner, Department of Archaeology, Universita degli Studi di Ferrara (2020)

##### *Editorial service*

My current editorial contributions include:

- Editorial Board member, Journal of Archaeological Science
- Editorial Board member, Archaeological and Anthropological Sciences

- Editorial Board member, Advances in Archaeological Practice
- Editorial Board member, Scientific Data
- Editorial Board member, Journal of Open Archaeology Data

*Reviewer service*

An independantly verified public record of my scholarly peer review activity is online at <https://publons.com/researcher/427449/ben-marwick/>. In the last five years I have reviewed manuscripts and proposals for:

- Australian Research Council
- National Science Foundation
- National Geographic Society
- Leakey Foundation
- *Nature*
- *Proceedings of the National Academy of Science*
- *Current Anthropology*
- *Journal of Human Evolution*
- *Journal of Archaeological Science*
- *Journal of Archaeological Science: Reports*
- *Journal of Archaeological Method and Theory*
- *Archaeological and Anthropological Sciences*
- *Journal of Field Archaeology*
- *Journal of Indo-Pacific Archaeology*
- *Archaeology in Asia*
- *American Antiquity*
- *Archaeology in Oceania*
- *Australian Archaeology*
- *Antiquity*
- *Quaternary Science Reviews*
- *Advances in Archaeological Practice*
- *Internet Archaeology*

**UW  
committees  
& other duties**

*Service within the Anthropology Department*

- Graduate Program Coordinator, 2025-present
- Member of Subfaculty Appointments Committee, 2025-present
- Chair of Curriculum Committee, 2023-present
- Member of Archaeology Search Committee for Assistant Professor of Archaeology and Climate Change, 2022-23
- Member of Biological Anthropology Search Committee for Assistant Professor, 2022-23
- Chair of Curriculum Committee, 2018-2022
- Member of Archaeology Search Committee for Assistant Professor of Health and Wellness, 2019-2020
- Member of Biological Anthropology Search Committee for Lecturer in Global Health, 2019-2020
- Member of Web Site Committee, 2010-2013
- Member of Undergraduate Curriculum Coordination Committee, 2013-current
- Member of Sub-faculty Appointments Committee, 2012-2013
- Member of Anthropology Honours Committee, 2012-2013
- Anthropology Honours Coordinator, 2009-2010
- Member of Self-Sustaining MA Degree Program in Public Anthropology Planning Committee, 2009-2010

*Service within the Archaeology Program*

- Archaeology Program Undergraduate Archaeological Sciences Option Coordinator, 2013-2015, 2019-current
- Archaeology Program Teaching Schedule Coordinator, 2013-2015, 2019-present
- Archaeology Program Graduate Comprehensive Exam Coordinator, 2012-2013
- Archaeology Program Seminar Coordinator, 2009-2013

*Service elsewhere on campus*

- Member, eScience Institute Executive Committee, 2023-current
- Director, Interdisciplinary Minor in Data Science, 2020-current
- Chair, eScience Institute Special Interest Group for Reproducible Research, 2019-2020
- Member, Faculty Council on Research, 2021-current
- Chair, Faculty Council on Research, 2019-2021
- Member of the Provost-appointed Data Science Minor for Humanities, Arts and Social Sciences Task Force, 2019-2020
- Member of the Activity Based Budgeting Steering Committee, Phase III: Research Support Subcommittee (RSS), 2019-2020
- Member of the JSIS MA Admissions & FLAS committees, 2009-10, 2020
- Member of the Data Science Masters Admissions committee, 2020
- Member of the CTL Teaching and Learning Symposium review committee, 2020
- Member of the Faculty Senate University Lecture review committee, 2020
- Coach, Center for Teaching and Learning 'Evidenced-Based Teaching Program', Spring Quarter 2020
- Facilitator, Center for Teaching and Learning Faculty and Professional Learning Community 'Engaging Students in Larger Classes', Spring Quarter 2012 and Winter Quarter 2013
- Facilitator, roundtable discussion with faculty and graduate students from the Jackson School of International Studies' Centre for Southeast Asia Center (SEAC) on the emergent Rohingya crisis in Myanmar.
- Adjunct Curator, Archaeology Department, Burke Museum, 2010-current
- Affiliate faculty, UW Quaternary Research Center, 2010-current
- Affiliate faculty, UW Center for Statistics and Social Sciences, 2009-current
- Affiliate faculty, UW Center for Southeast Asian Studies, 2009-current
- Affiliate faculty, UW IGERT Program in Evolutionary Modeling, 2010-2013

**mentoring***PhD advisor*

- Setareh Shafizadeh, Anthropology, University of Washington, PhC expected 2025
- Gayoung Park, Anthropology, University of Washington, PhC 2023
- Li-Ying Wang, Anthropology, University of Washington, PhD 2021
- Mark Madsen, Anthropology, University of Washington, PhD 2020 (co-chair with Jim Feathers)
- Seungki Kwak, Anthropology, University of Washington, PhD 2015
- Kayla Wopschall, Anthropology, University of Washington, PhD 2015 (co-chair with Ben Fitzhugh)

*PhD committee member*

- Jiun-Yu Liu, Anthropology, University of Washington
- William Brown, Anthropology, University of Washington
- Natalia Slobodina, Anthropology, University of Washington
- Chung-Ching Shiung, Anthropology, University of Washington
- Erik Gjesfjeld, Anthropology, University of Washington
- Colby Phillips, Anthropology, University of Washington
- Jennifer Huff, Anthropology, University of Washington
- Amy Jordan, Anthropology, University of Washington
- Chris Lockwook, Anthropology, University of Washington
- Emily Peterson, Anthropology, University of Washington
- Molly Odell, Anthropology, University of Washington

*Graduate school representative committee member*

- Os Keyes, Human Centered Design and Engineering, University of Washington, PhC, 2020
- Cassandra Brigham, Earth and Space Sciences, University of Washington, PhC, 2019
- Mark Warden, Epidemiology, University of Washington, PhC, 2021
- Tom Braine, Physics, University of Washington, PhC, 2020
- Charles Lanfear, Sociology, University of Washington, PhD, 2021
- Zachary Ploskey, Earth and Space Sciences, University of Washington