

MAUREECE J. LEVIN, Ph.D.
Curriculum Vitae
March 2020

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RESEARCH INTERESTS

Pacific Islands Archaeology, East Asian Archaeology, Prehistoric Food Production Systems, Origins of Food Production, Agricultural Sustainability, Island Environments, Historical Ecology, Landscape Archaeology, Cultural Niche Construction, Archaeobotany, Paleoecology, Phytolith Analysis, Micronesia, China.

EDUCATION

Ph.D., Anthropology, University of Oregon, Eugene, OR, 2015.
M.A., Anthropology, University of Oregon, Eugene, OR, 2009.
B.A., Anthropology, with minor in Japanese, Whitman College, Walla Walla, WA, 2003.

ACADEMIC APPOINTMENTS

Adjunct Faculty, Santa Rosa Junior College, 2020-present.
Archaeological Consultant, Stanford Heritage Services, 2019-present.
Visiting Fellow, Uppsala University – Campus Gotland, September-October 2019.
Postdoctoral Scholar, Stanford Archaeology Center. 2015-2019.

ACADEMIC AWARDS, HONORS, AND FELLOWSHIPS

National Geographic Early Career Grant, 2019 (\$10,000).
Garden and Landscape Studies Project Grant from Dumbarton Oaks, 2017 (\$6000).
Wenner-Gren Post-Ph.D. Research Grant, 2016 (\$19,970).
Graduate Teaching Fellowship, University of Oregon; 2006-2007, 2008-2015.
CAPS (Center for Asia and Pacific Studies) Travel Grant, University of Oregon; 2007, 2008, 2010, 2012, 2014 (\$200).
Cheryl L. Harper Memorial Fund Scholarship, Department of Anthropology, University of Oregon, 2014 (\$1000).
Food Studies Graduate Research Grant, University of Oregon, 2013 (\$850).
Juda Memorial Award, Department of Anthropology, University of Oregon, 2012 (\$500).
Department of Anthropology Travel/Research Award, University of Oregon; 2007, 2012 (\$200, \$400).
NSF EAPSI (East Asia and Pacific Summer Institute) Grant for Australia Program, 2011 (\$5700).
National Park Service/Pohnpei Historic Preservation Office Grant with Professor William Ayres; 2011 (\$25,900).
Graduate School Research Award, Department of Anthropology, University of Oregon; Fall 2009 (\$500).
FLAS (Foreign Language and Area Studies Fellowship) for Japanese, University of Oregon; 2007-2008.

John L. and Naomi M. Luvaas Fellowship, College of Arts and Sciences, University of Oregon; 2007-2008 (\$1000).

PROFESSIONAL PAPERS

Peer-Reviewed Journal Articles

Napolitano, Matthew F., Robert J. DiNapoli, Jessica H. Stone, **Maureece J. Levin**, Nicholas P. Jew, Brian G. Lane, John T. O'Connor, and Scott M. Fitzpatrick

2019 Reevaluating human colonization of the Caribbean using chronometric hygiene and Bayesian modeling. *Science Advances* 5: eaar7806.

Comer, Douglas C., Jacob A. Comer, Ioana A. Dumitru, William S. Ayres, **Maureece J. Levin**, Katherine Seikel, Devin A. White, and Michael J. Harrower

2019 Airborne LiDAR Reveals a Vast Archaeological Landscape at the Nan Madol World Heritage Site. *Remote Sensing* 11(18): 2152.

Stephens, Lucas, Dorian Fuller, Nicole Boivin, [and 117 others, including **Maureece J. Levin**]

2019 Archaeological assessment reveals Earth's early transformation through land use. *Science* 365(6456): 897-902. DOI: 10.1126/science.aax1192.

Liu, Li, Jiajing Wang, **Maureece J. Levin**, Nasa Sinnott-Armstrong, Hao Zhao, Yanan Zhao, Jing Shao, Nan Di, and Tian'en Zhang

2019 The origins of specialized pottery and alcohol fermentation in early Neolithic China. *Proceedings of the National Academy of Sciences* 116(26): 12767-12774. DOI: 10.1073/pnas.1902668116.

Levin, Maureece J., Katherine Seikel and Aimee Miles

2019 A Partial Chronological Sequence of Human Habitation for Pingelap Atoll (Pohnpei State, Federated States of Micronesia). *Radiocarbon*. 61(3): 765-776. DOI: 10.1017/RDC.2019.30.

Levin, Maureece J.

2019 Prehistoric Agricultural Transformations in the Pacific Islands: Towards a Comprehensive Phytolith Analysis. *Quaternary International*. DOI: 10.1016/j.quaint.2019.03.002.

Liu, Li, **Maureece J. Levin**, Xingcan Chen, and Yongqiang Li

2018 河南偃师灰嘴遗址新石器时代和二里头文化时期工具 残留物及微痕分析 (Use-wear and residue analyses of cutting tools of the Neolithic and Erlitou periods from the Huizui site in Yanshi, Henan). *中原文物 (Cultural Relics of Central China)* 204: 82-97. (In Chinese, with English abstract.)

Liu, Li, **Maureece J. Levin**, Mike Bonomo, Jiajing Wang, Jinming Shi, Yanhua Song, Jiayi Han, and Xingcan Chen

2018 Harvesting and processing wild cereals in the Upper Paleolithic Yellow River Valley, China. *Antiquity* 92(363): 603-619. DOI: 10.15184/aqy.2018.36.

Levin, Maureece J.

2018 Breadfruit Fermentation in Pohnpei, Micronesia: Site Formation, Archaeological Visibility, and Interpretive Strategies. *The Journal of Island and Coastal Archaeology* 13(1): 109-131. DOI: 10.1080/15564894.2017.1382618.

Levin, Maureece J.

2017 Archaeobotanical Approaches in the Study of Food Production in Remote Oceania. *Ethnobiology Letters* 8(1): 105-108. DOI: 10.14237/ebl.8.1.2017.882.

Liu, Li, Jiajing Wang, and **Maureece J. Levin**

2017 Usewear and residue analyses of experimental harvesting stone tools for archaeological research. *Journal of Archaeological Science: Reports* 14: 439-453. DOI: 10.1016/j.jasrep.2017.06.018.

Levin, Maureece J., Molly Shelton, and William S. Ayres

2017 Swiddening Practices in the Micronesian Past: Macrocharcoal Quantification from a Gardening Site in Pohnpei. *The Journal of Island and Coastal Archaeology* 12(3): 451-457. DOI: 10.1080/15564894.2016.1271066.

Levin, Maureece J. and William Ayres

2017 Managed agroforests, swiddening, and the introduction of pigs in Pohnpei, Micronesia: phytolith evidence from an anthropogenic landscape. *Quaternary International* 434B: 70-77. DOI: 10.1016/j.quaint.2015.12.027.

Levin, Maureece J.

2016 Roasting Breadfruit in the Pacific: A Combined Plant Microremain and Phytolith Analysis from Pohnpei, Federated States of Micronesia. *Archaeology in Oceania* 51: 70-76. DOI: 10.1002/arco.5081.

Book Reviews

Levin, Maureece

2018 Tangataau Rockshelter: The Evolution of an Eastern Polynesian Socio-Ecosystem. Edited by Patrick Vinton Kirch. 2017. UCLA Cotsen Institute of Archaeology Press, Los Angeles. 326 pp. *Ethnobiology Letters* 9(2): 243-244.

Levin, Maureece

2017 Of Trowels and Temples. Review of *Three Stones Make a Wall*. By Eric H. Cline (Princeton, Princeton University Press, 2017). *Open Letters Monthly*. <http://www.openlettersmonthly.com/of-trowels-and-temples/>. (Popular press/general audience review)

Levin, Maureece J.

2015 Review of *Ancient Plants and People: Contemporary Trends in Archaeobotany*. Edited by Marco Madella, Carla Lancelotti, and Manon Savard (Tucson, University of Arizona Press, 2014). *Food, Culture and Society* 18(4): 709-711. DOI:10.1080/15528014.2015.1088203.

Non-Peer Reviewed Short Communications

Levin, Maureece J., Jiajing Wang, and Li Liu

2019 From foraging to farming across the Asia-Pacific: An introduction. *Quaternary International* 529: 1-2.

Levin, Maureece J., Katherine Seikel, and Aimee Miles

2017 Settlement and Food Systems of Pingelap, Micronesia: The 2017 Field Season. *The Current: Newsletter of the Island & Coastal Archaeology Interest Group* 5(1): 9-10.

Levin, Maureece J.

2016 Pingelapese Food Production in the Archaeological Record: A Pilot Project. *The Current: Newsletter of the Island & Coastal Archaeology Interest Group* 4(2): 14-15.

Levin, Maureece J.

2015 Food Production, Environment, and Culture in Central-Eastern Micronesia. *SAA Current Research* 227:1.

Technical Reports

Levin, Maureece J., Katherine Seikel and Aimee Miles

- 2018 Settlement and Subsistence on Pingelap Atoll: Results from the 2017 Field Season. Report Submitted to Historic Preservation Office, Pohnpei, Federated States of Micronesia.

Levin, Maureece J.

- 2016 Pohnpeian and Pingelapese Food Production in the Archaeological Record: A Pilot Project. Report Submitted to Historic Preservation Office, Pohnpei, Federated States of Micronesia.

Ayres, William, **Maureece Levin**, and Katherine Seikel

- 2015 Archaeological Survey, Architectural Studies and Agricultural Analysis, Nan Madol and Temwen, Pohnpei. Pacific Islands Archaeological Laboratory, University of Oregon. Submitted to Historic Preservation Office, Pohnpei, Federated States of Micronesia.

Ayres, William, Katherine Seikel, and **Maureece Levin**

- 2009 *Archaeological Remains at Angier-Karian, Nan Madol, With Supplemental Studies at Sokehs and Temwen, Pohnpei, FSM.* Report 08-1, Pacific Islands Archaeological Laboratory, University of Oregon. Submitted to Historic Preservation Office, Pohnpei, Federated States of Micronesia.

Editing

Levin, Maureece J., Jiajing Wang, and Li Liu

- 2019 The Emergence and Development of Farming in the Ancient Asia-Pacific: Methods and Interpretations. *Quaternary International* 529. (Special issue, served as Executive Guest Editor)

Co-Editor (with Jonathan Hanna and Sean Hixon), *The Current: Newsletter of the Island & Coastal Archaeology Interest Group* (within the Society for American Archaeology). 2018-present.

CONFERENCE PRESENTATIONS

Organized/Chaired Symposia and Meetings

Liu, Li, **Maureece Levin** and Jiajing Wang

- 2017 "Transitions from Foraging to Farming in Ancient China and Beyond: An Archaeobotanical Perspective," Conference at Stanford University.

Levin, Maureece and Katherine Seikel

- 2013 "Archaeology in Micronesia: Current Research and Future Directions," Symposium at the Society for American Archaeology.

Authored and Co-Authored Presentations

Levin, Maureece

- 2018 "Taro in Tupperware: How the past and present inform each other on Pingelap Atoll." Indo-Pacific Prehistory Association, Hue, Vietnam.

Levin, Maureece, Katherine Seikel, and Aimee Miles

- 2018 "Past Landscape Management and the Construction of Modern Pingelap (Pohnpei State, Federated States of Micronesia)." Society of Ethnobiology and Society of Economic Botany joint annual conference, Madison, Wisconsin.

Scott M. Fitzpatrick, Matthew Napolitano, Jessica Stone, Robert DiNapoli, Brian G. Lane, John T. O'Connor, Damion Sailors, Nicholas Jew, **Maureece Levin**, and Aaron Poteate

- 2017 "Using Chronometric Hygiene and Bayesian Modeling to Reexamine Pre-Columbian Colonization of the Caribbean," International Association for Caribbean Archaeology, 27th Congress, Saint Croix.

Levin, Maureece

- 2017 "Agroforestry, Migrations, and Human Niche Construction in Central-Eastern Micronesia," *Transitions from Foraging to Farming in Ancient China and Beyond: An Archaeobotanical Perspective*, Stanford University, Stanford, California, USA.

Levin, Maureece and Floyd Silbanuz

- 2017 "Fire up the *Uhmw*: Deciphering Botanical Residues from Earth Ovens in Pohnpei, Federated States of Micronesia," Society for American Archaeology, Vancouver, British Columbia, Canada.

Levin, Maureece

- 2016 "Making a Living in the Oceanic Past: A Paleoethnobotanical Perspective," Stanford Postdoctoral Research Symposium, Stanford University, Stanford, California, USA.

Levin, Maureece and William S. Ayres

- 2016 "Building and Inhabiting Nan Madol: Integrating Phytolith, Plant Macroremain, and Sponge Spicule Data from Pahn Kadira Islet," International Meeting for Phytolith Research, Aix-en-Provence, France.

Levin, Maureece, Molly Shelton, and William S. Ayres

- 2016 "On Swiddening and Pigs: The Management of Micronesian Agroforests," Society for American Archaeology, Orlando, Florida, USA.

Levin, Maureece

- 2015 "Roasting Breadfruit in Micronesia: A Combined Macroremain and Phytolith Analysis," Northwest Anthropological Conference, Eugene, Oregon, USA.

Levin, Maureece and William S. Ayres

- 2014 "Archaeological Agricultural Plots in the Pacific: Phytolith Evidence from Pohnpei, Federated States of Micronesia," International Meeting for Phytolith Research, Brussels, Belgium.

Levin, Maureece

- 2013 "Paleoethnobotanical Evidence from Food Production Features on Pohnpei, Micronesia," Society for American Archaeology, Honolulu, Hawai'i, USA.

Levin, Maureece and William S. Ayres

- 2012 "Prehistoric Food Production in Pohnpei, Micronesia: Preliminary Phytolith Evidence," International Conference on Easter Island and the Pacific, Santa Rosa, California, USA.

Ayres, William S., **Maureece Levin**, and Katherine Seikel

- 2007 "Lithic Analysis on a Rapa Nui Rockshelter," International Conference on Easter Island and the Pacific, Visby, Gotland, Sweden.

Levin, Maureece

- 2003 "Korean Influences on Yayoi and Kofun Japan," Whitman College Undergraduate Conference, Walla Walla, Washington, USA.

Levin, Maureece

- 2003 "Language Education Among China's Ethnic Minorities," Northwest Anthropological Conference, Bellingham, Washington, USA.

Posters

Miles, Aimee, **Maureece Levin**, and Katherine Seikel

- 2019 "Assessing changes in nearshore fishing and intertidal foraging practices in an eastern Micronesian island community: ethnoarchaeological perspectives on long-term human exploitation of atoll island marine ecosystems and its ecological impact." Poster at Fish Remains Working Group Conference, Portland, Oregon, USA.

Levin, Maureece, Katherine Seikel, and Aimee Miles

- 2019 "A Multi-Proxy Investigation of Settlement on Pingelap Atoll, Pohnpei State, Federated States of Micronesia. Poster at Society for American Archaeology, Albuquerque, New Mexico, USA.

Levin, Maureece

- 2014 "Paleoethnobotanical Indicators of Plant Food Production: A Contextual Approach from Pohnpei, Eastern Micronesia." Poster at Society for American Archaeology, Austin, Texas, USA.

Levin, Maureece and William S. Ayres

- 2012 "Evidence for Prehistoric Food Production Systems on Pohnpei, Micronesia: Preliminary Results," Poster at Society for American Archaeology, Memphis, Tennessee, USA.

Levin, Maureece

- 2011 "Agroforestry and Gardening in Prehistoric Micronesia," Poster at University of Oregon Graduate Student Research Forum, Eugene, Oregon, USA.

Levin, Maureece

- 2010 "Breadfruit Storage Pits in Pohnpei, Micronesia: Construction and Use," Poster at Society for American Archaeology, St. Louis, Missouri, USA.

Panel Participant

Hurd, Kayla (Organizer, Chair, Presenter), Sherylyn H. Briller (Organizer, Presenter), **Maureece J. Levin** (Presenter), and Julie Lesnik (Presenter)

- 2018 Standing up for Anthropology: Learning to communicate effectively across disciplines and showcasing the value of anthropological knowledge. American Anthropological Association, San Jose, California, USA.

PUBLIC LECTURES

- 2020 "Settlement, Subsistence, and Marginality in Micronesia: A Multiproxy Investigation of Pingelap Atoll," Archaeology Lunch Talk at the University of Oregon, Eugene, Oregon, USA.
- 2019 "The Pingelap Archaeological Project: The Shaping of a Human Landscape," Higher Seminar Lecture at Uppsala University – Campus Gotland, Visby, Gotland, Sweden.
- 2019 "The Pingelap Archaeological Project: Shaping of a Human Landscape," Forum Lecture at College of Micronesia, National Campus, Palikir, Pohnpei, FSM.
- 2018 "'Marginal' Landscapes and Culture Niche Construction: A View from the Agroforests of Micronesia," Stanford Archaeology Center Workshop Series, Stanford, California, USA.
- 2015 "Paleoethnobotanical Perspectives on Micronesian Agriculture," Stanford Archaeology Center Lunch Club Series, Stanford, California, USA.
- 2013 "Transported Landscapes and the Development of Arboricultural Systems in Eastern Micronesia," University of Oregon, Department of Anthropology, Colloquium Panel Discussion, Eugene, Oregon, USA.
- 2007 "Lithic Analysis on a Rapa Nui Rockshelter," co-presented with Katherine Seikel, University of Oregon, Department of Anthropology, Colloquium Series, Eugene, Oregon, USA.

MAJOR TEACHING EXPERIENCE

Adjunct Faculty Instructor, Santa Rosa Junior College, Santa Rosa, CA, January 2020-present.

Sole Instructor Position

Biological Anthropology Laboratory (2020)

Instructor, Stanford Continuing Studies, Stanford, CA, June 2018-December 2018; January 2020-June 2020.

Sole Instructor Position

The Archaeology of Human Diets: Ancient Origins, Modern Science (Online Course, Fall 2018, Spring 2020)

Postdoctoral Instructor, Stanford University, Stanford, CA, January 2017-March 2019.

Sole Instructor Position

Archaeobotany (2017, 2018, 2019)

Graduate Teaching Fellow, University of Oregon, Eugene, OR, September 2006-June 2007, September 2008-2015.

Sole Instructor Position

Environmental Archaeology (2013)

Pacific Islands Archaeology (2013)

Discussion Section/Lab Instructor Position

People and Plants (2014)

World Archaeology (2009, 2011, 2012, 2014)

Ancient Cities (2013)

World Cultures/Introduction to Cultural Anthropology (2008, 2009, 2010, 2015)

Evolution of Human Sexuality (2007, 2009)

Introduction to Biological Anthropology (2014)

Grading/Assistant Position

Practical Archaeobotany (2010, 2015)

Food Origins (2011)

People and Plants (2010, 2012)

Pacific Islands Archaeology (2006, 2012)

Archaeology of East Asia (2013)

The Ancient Maya (2007)

MAJOR FIELDWORK EXPERIENCE

Project Director on Pingelap Atoll, July-August 2019, Pingelap, Pohnpei, Micronesia.

Project Director on Pingelap Atoll, June-August 2017, Pingelap, Pohnpei, Micronesia.

Project Director on Temwen Island and Pingelap Atoll, July-August 2016, Pohnpei and Pingelap, Micronesia.

Field Director on Temwen Island, September-November 2011, Pohnpei, Micronesia.

Staff Archaeologist on Nan Madol, Temwen Island, and Sokehs, July-August 2008, Pohnpei, Micronesia.

Marothodi International Archaeological Field School, August 2005, Bapong, Northwest Province, South Africa.

MAJOR LABORATORY EXPERIENCE

Design of new soils management protocol for Stanford Heritage Services, November 2019-present, Stanford, California.

Processing and analysis of microbotanical materials from China and other locations, September 2015-present, Stanford, California.

Sorting, processing, and analysis of macro and microbotanical materials from Pohnpei, Micronesia, 2007-2014, Eugene, Oregon.

Processing and analysis of microremain samples from China and Korea, Summer 2014, Eugene, Oregon.

Training in phytolith processing and analysis, June 2011-August 2011, Canberra, Australia (Supervisor: Dr. Matiu Prebble).

Sorting and analysis of flotation samples from Indonesia, 2008-2009, Eugene, Oregon.

Usewear analysis of obsidian stone tools and debitage from a rock shelter on Rapa Nui (Easter Island, 2006-2007, Eugene, Oregon.

OTHER EXPERIENCE

Co-founding Organizer and Reviewer for CONNECT (Collaboration Opportunities and Networking for Engaging in Community-based Training) Grants for Postdoctoral Scholars at Stanford University, 2019.

Member of SURPAS (Stanford University Postdoctoral Association) Postdoctoral Symposium Planning Committee, 2017 and 2019.

Intensive two-day instruction in starch grain analysis for two California State University, Sacramento graduate students, September 2017.

Ad Hoc Reviewer, *Nature Human Behaviour*, 2019.

Ad Hoc Reviewer, *Journal of Island and Coastal Archaeology*, 2018.

Ad Hoc Reviewer, *Ethnobiology Letters*, 2017.

Ad Hoc Grant Reviewer, National Science Foundation, 2016.

AAGS (Association of Anthropology Graduate Students) Secretary/Treasurer 2007-2008.

Volunteer/Intern, Fort Walla Walla Museum, Walla Walla, WA, September 2005-May 2006.

Assistant Language Teacher, JET Program, Iide Town, Yamagata, Japan, August 2003-July 2005.

OUTREACH ACTIVITIES

Elementary School Lessons

Archaeological and Archaeobotanical demonstration at "Girls in Science" event, Peregrine School, Davis, California, USA, January 2018.

"Introduction to Archaeology," Rainbow Bridge International School, Shanghai, China, March 2009.

"Basic Archaeology," Agnes Stewart Middle School, Springfield, Oregon, USA, November 2007.

"Introduction to Archaeology," (with Katherine Seikel) Keiser Elementary, Keiser, Oregon, USA April 2007.

Other

Research demonstration at the California Academy of Sciences "Tropical" Nightlife event, San Francisco, CA, January 24, 2019

"Half-Life, Radiocarbon, and the Human Past," workshop for Mathematics Faculty, City College of San Francisco, February 23, 2018.

Research demonstration at the California Academy of Sciences “Prehistoric” Nightlife event, San Francisco, CA, May 18, 2017.

“Half-Life, Radiocarbon, and the Human Past,” Presentation for Math 90 (Precalculus Algebra), City College of San Francisco, March 23, 2017.

Stanford Science Penpals participant, 2016-2017.

Research demonstration at the California Academy of Sciences “Forests” Nightlife event, San Francisco, CA, September 22, 2016.

Guest curator for @realscientists twitter account, May 29-June 4, 2016.

MISCELLANEOUS SKILLS

Languages

English: native speaker

Japanese: advanced (JLPT Level 2 Certification, 2004)

French: elementary

Mandarin Chinese: elementary

Other

Completed Introductory GIS course, 2009.

MEMBERSHIPS

American Association for the Advancement of Science

Indo-Pacific Prehistory Association

International Phytolith Society

Society for American Archaeology

Society of Ethnobiology

REGISTRATIONS

Registered Professional Archaeologist 41587999