

# SARAH KLASSEN

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August 2023

## PROFESSIONAL APPOINTMENTS

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- 2022 – P.      **University of Toronto**  
Fellow in the Archaeology Centre at the Faculty of Arts and Sciences
- 2018 – P.      **Phoenix Community College**  
Adjunct Faculty
- 2021 – 2022    **Leiden University**  
European Research Council (ERC) Marie Skłodowska-Curie Postdoctoral Fellow
- 2019 - 2020    **University of British Columbia**  
Social Sciences and Humanities Research Council (SSHRC) Postdoctoral Fellow
- 2018            **Dumbarton Oaks, Harvard University**  
Mellon Fellow in Urban Landscape Studies

## HONORARY APPOINTMENTS

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- 2021 – P.      **University of British Columbia**  
Honorary Research Associate
- 2021 – 2022    **University of Toronto**  
Honorary Research Associate
- 2019 – 2021    **University of Oregon**  
Courtesy Research Associate
- 2019            **Arizona State University**  
Visiting Researcher

## EDUCATION

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- 2011- 2018    **Arizona State University**  
Ph.D. in Anthropology (Archaeology)  
Dissertation: “Adaptive Capacity of the Water Management Systems of Two Medieval Khmer Cities, Angkor and Koh Ker.”  
Committee: Ben A. Nelson (co-chair), Charles Redman (co-chair), Mike Smith, Michael Barton, and Damian Evans  
M.A. in Anthropology (Archaeology), 2013

2006 - 2010     **Dartmouth College**  
B.A. Anthropology (with honors) and Religion

## **PUBLICATIONS**

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### **In Review**

Carleton, C., **Klassen, S.**, Weed, J., Evans, D., Roberts, P., and H. Groucutt. Bayes against the machine: Competing Bayesian regression against graph-based machine learning for estimating unknown temple foundation dates at Angkor. Submitted to *Journal of Field Archaeology*.

### **Accepted**

**Klassen, S.**, Pappagallo, T., & D. Evans. From the jungle to the lab: Using remote-sensing and deep learning to map archaeological features in lab-based settings.” Book chapter in *Analecta Praehistorica Leidensia*.

### **Peer-reviewed**

Hawken, S. & **S. Klassen** (2023). Angkor’s local temple communities: Towards an algorithmic approach to understanding Angkorian suburban settlement patterns. Book chapter in *Angkorian World*.

Evans, D., Fletcher, R., **Klassen, S.**, Pottier, C., & Wijker, P (2023). Trajectories of Urbanism in the Angkorian World. Book chapter in *Angkorian World*.

Evans, D., Polkinghorne, M., Fletcher, R., Brotherson, D., Hall, T., **Klassen, S.**, & Wijker, P (2023). Perspectives on the ‘Collapse’ of Angkor and the Khmer Empire: A Critical Review. Book chapter in *Angkorian World*.

**Klassen, S.**, Carter, A., Evans, D., Ortman, S., Stark, M., Loyless, A., Polkinghorne, M., Heng, P., Hill, M., Wijker, P., Niles-Weed, J., Marriner, G., Pottier, C., & R. Fletcher (2021). Diachronic modeling of the population within the medieval Greater Angkor Region settlement complex. *Science Advances*, 7 (19).

**Klassen, S.**, Ortman, S., Lobo, J., & D. Evans (2021). Provisioning an Early City: Spatial Equilibrium in the Agricultural Economy at Angkor, Cambodia. *Journal of Archaeological Method and Theory*, 29.

**Klassen, S.**, Attorre, T., Brotherson, D., Chhay, R., Johnson, W., Moffat, I., & R. Fletcher (2021). Deciphering a Timeline of Demise at Medieval Angkor, Cambodia Using Remote Sensing. *Remote Sensing*, 13 (11).

Carter, A., **Klassen, S.**, Stark, M., Polkinghorne, M., Heng, P., & D. Evans (2021). “The evolution of agro-urbanism: A case study from Angkor, Cambodia.” *Journal of Anthropological Archaeology*, 16.

**S. Klassen**, & D. Evans (2020). Top-down and bottom-up water management: A diachronic model of changing water management strategies at Angkor, Cambodia. *Journal of Anthropological Archaeology*, 58.

Cohen, A., **Klassen, S.**, & D. Evans (2020). Ethics in Archaeological Lidar. *Journal of Computer Applications in Archaeology*, 3 (1), pp. 76–91.

Evans, D. & **S. Klassen** (2020). Water Management and Settlement Structure at Koh Ker. *The International Magazine of Arts and Antiques of Southeast Asia*. 1 (1).

Moffat, I., **Klassen, S.**, Attorre, T., Evans, D., Lustig, T. & K. Leaksmy (2019). Geophysical investigations of the Koh Ker chute, northern Cambodia. *Geoarchaeology*. 35 (1).

**Klassen, S.**, Weed, J., & D. Evans (2018). “Semi-supervised machine learning approaches for predicting the chronology of archaeological sites: A case study of temples from medieval Angkor, Cambodia,” *PLOS ONE*, 13 (11).

Russell, W., **Klassen, S.**, & K. Salazar (2018). Lines of communication: Mimbres hachure and concepts of color. *American Antiquity*, 83 (1).

Lustig, T., **Klassen, S.**, Evans, D., French, R., & I. Moffat (2018). Evidence for the breakdown of an Angkorian hydraulic system, and its historical implications for understanding the Khmer Empire. *Journal of Archaeological Science: Reports*. 17.

### Special issues edited

Cohen, A., **Klassen, S.**, & D. Evans (2020). Reflections on Archaeological Lidar. *Journal of Computer Applications in Archaeology*. 3 (1).

### Book reviews

**Klassen, S.** (2021). Review of *Ancient Southeast Asia*. JOHN NORMAN MIKSIC and GEOK YIAN GOH. 2017. Routledge, London.

### Published code

Hill, M., & **Klassen, S.** (2020). Diachronic modeling of the population within the Greater Angkor settlement complex. Figshare (<https://figshare.com/s/df9947cb877d03a21406>).

### Data Repositories

**Klassen, S.**, Attorre, T., Brotherson, D., Chhay, R., Johnston, W., Moffat, I., and R. Fletcher (2021) Data Associated with “Deciphering a Timeline of Demise at Medieval Angkor, Cambodia using Remote Sensing” Available online: [osf.io/g65xu](https://osf.io/g65xu).

### Technical reports

**Klassen, S.,** Attorre, T., Loyless, A., Hill, M., Phakdey, P., & P. Samnang (2020). Koh Ker Archaeological Project (KKAP): Report 5: Photogrammetry: Fieldwork conducted Dec. 2019. Report on file, the National Authority of Preah Vihear.

**Klassen, S.,** Attorre, T., Loyless, A., Hill, M., Phakdey, P., & P. Samnang (2020). Koh Ker Archaeological Project (KKAP): Report 4: Ground penetrating radar survey: Fieldwork conducted Dec. 2019. Report on file, the National Authority of Preah Vihear.

**Klassen, S.,** Attorre, T., Phakdey, P., Samnang, P., & R. Lane (2019). Koh Ker Archaeological Project (KKAP): Report 3: Ground penetrating radar survey: Fieldwork conducted March 2019. Report on file, the National Authority of Preah Vihear.

Attore, T., & **S. Klassen** (2019). Koh Ker Archaeological Project (KKAP): Report 2: Second potential UXO identification during March 2019 field season. Report on file, the National Authority of Preah Vihear.

Attore, T. & **S. Klassen** (2019). Koh Ker Archaeological Project (KKAP): Report 1: Potential UXO identification during March 2019 field season. Report on file, the National Authority of Preah Vihear.

**Klassen, S.** & A. Loyless (2019). Cambodian Archaeological Lidar Initiative: Exit Report, Sambor Prei Kuk Ground Survey. Report on file, the Ministry of Culture, Cambodia.

**Klassen, S.,** Evans, D., Lustig, T., & N. Wiggins (2016). Excavations at the Koh Ker Chute. Report on file, the Authority for the Protection and Management of Angkor and the Region of Siem Reap.

**S. Klassen** (2014). Preliminary Analysis using Middle Mekong Archaeological Project GIS data: A model to recommend prehistoric agrarian sites in the middle Mekong basin for excavation. Report on file, the Henry Luce Foundation.

Russell, W., **Klassen, S.,** Bello, J., Edwards, E., Knoll, Z., Smigielski, R., & R. Suarez (2012). Excavation summary, unit 10, Roadmap Village (LA45157), Sierra County, New Mexico. Report on file, School of Human Evolution and Social Change, ASU.

## **GRANTS, AWARDS, AND FELLOWSHIPS\***

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### **Fellowships**

2021 – 2022	Marie Skłodowska-Curie Postdoctoral Fellow, €175,000 EUR
2019 – 2020	Social Sciences and Humanities Research Council of Canada Postdoctoral Fellowship, \$90,000 CAD
2017-2018	ASU College of Liberal Arts and Sciences Graduate Dissertation Completion Fellowship, \$18,000 USD

- 2017-2018 ASU School of Human Evolution and Social Change Dissertation Completion Fellowship, \$18,000 USD (Declined)
- 2016 Endeavour Fellowship, Australian Government, Department of Education and Training, \$23,000 AUD
- 2013 Norm Perrill Origins Project Scholarship \$1,000 USD
- 2011 Dartmouth College General Fellowship for Graduate Research, \$5,500 USD
- 2008-2010 Sandra and Arthur Irving Scholarship, \$75,000 USD
- 2008 NCAA Academic Enrichment, \$1,000 USD

### Research Grants

- 2019-2021 Social Sciences and Humanities Research Council of Canada (SSHRC) Insight Development Grant, Koh Ker Archaeological Project (*sole PI*). \$72,000 CAD
- 2019 Global Oregon Faculty Collaboration Fund, University of Oregon, \$3,000 USD
- 2018 Rust Family Foundation Research Grant, Koh Ker Archaeological Project (*sole PI*). \$9,100 USD
- 2018 National Science Foundation (NSF) Doctoral Dissertation Research Improvement Awards, Political Centralization and Water Management at Medieval Angkor, Cambodia (*PI: Nelson B., & Redman, C. co-PI: Klassen, S.*) (1638137). \$27,872 USD
- 2018 Rust Family Foundation Research Grant, Survey of the Greater Angkor Region (*PI: Klassen, S. & Evans, D.*). \$7,200 USD
- 2012-2017 ASU Graduate and Professional Student Association Travel Grant (*sole PI*), six grants totaling \$6,770 USD
- 2017 ASU School of Human Evolution and Social Change Student Research Grant (*sole PI*), Adaptive Capacity at Angkor. \$2,670 USD
- 2014-2017 Graduate Research Support Grant (*sole PI*), Graduate and Professional Student Association, the Office of Graduate Education, and the Office of the Vice President for Research and Economic Affairs, ASU, two grants totaling \$2,750 USD
- 2014 ASU Graduates in Integrative Society and Environmental Research (GISER) Research Seed Funds (*sole PI*). \$2,000 USD
- 2013 ASU School of Human Evolution and Social Change Research Award (*sole PI*). \$1,500 USD
- 2009 Claire Garber Goodman Research Grant. \$3,850 USD

- 2009            Rockefeller Senior Honors Thesis Grant. \$750 USD
- 2009            Dean of the Faculty Grant: Kaminsky Family Fund Award. \$2,000 USD

*\*Grants less than \$750 excluded*

### **Awards**

- 2022            ISEAA Early Career Award
- 2018            Ruppé Prize in Archaeology, Runner-up
- 2018            ASU Graduate College Travel Award
- 2016            ASU College of Liberal Arts and Sciences Graduate Excellence Award
- 2015            The European Association of Southeast Asian Archaeologists (EurASEAA) Travel Award
- 2008            Charles G. & Alma Milham Award

### **INVITED TALKS**

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- “Provisioning a preindustrial city: Communal organization of labor, water management, and the intensification of agriculture in the Greater Angkor region, 9th-15th centuries CE,” Resilience and sustainability: past trajectories, contemporary directions, policy relevance, Climate Change and History Research Initiative, Princeton University, Princeton, NJ (June 10-12, 2024).
- “Diachronic population estimates and urban scaling at Angkor, Cambodia,” Stadsarcheologiedag, Amersfoort, Netherlands (October 10, 2022).
- “Human-environment interactions and the rise of urbanism in the Greater Angkor Region,” La Trobe University Archaeology seminars, Melbourne, Australia (March 10, 2022).
- “Building an Empire: Centralized agricultural systems and the rise of urbanism in the Khmer Empire,” *Oxford Eurasian Archaeology seminar*, Oxford, UK (February 21, 2022).
- “The rise and decline of Angkor,” Guest Lecture, *Archaeology of War*, Florida Atlantic University (February 17, 2022)
- “Adaptive capacity of medieval water management systems in Cambodia,” *San Joaquin Valley, Archaeological Institute of America*, San Joaquin Valley, California (October 4, 2021).
- “Human-environment interaction and the rise of urbanism,” *World Archaeology, Washington University in St. Louis*, St. Louis, Missouri (October 6, 2021)
- “Changing agriculture and water management strategies at the medieval complex of Angkor, Cambodia,” *Methods and Theoretical Approaches in Archaeology, Universidade Estadual Paulista, São Paulo, Brazil* (April 6-29, 2021).
- “Results of the Koh Ker Archaeological Project,” *National Authority of Preah Vihear*, Phnom Penh, Cambodia (March 17, 2021).

- “Angkor’s water management system and the rise of urbanism,” *Angkor’s water management system, Center for Khmer Studies*, Siem Reap, Cambodia (February 25, 2021).
- “Applications of GIS to Archaeology: Medieval Urbanism at Angkor, Cambodia,” *Research Methods in Archaeology, Indiana University Bloomington*, Bloomington, Indiana (February 3, 2021).
- “Using Remote Sensing to Decode the Urban Morphology and Agricultural System of Medieval Angkor, Cambodia,” *Middle American Research Institute Spring 2021 Archaeology Speaker Series, Tulane University*, New Orleans, Louisiana (January 29, 2021).
- “Agricultural centralization and intensification at medieval Angkor, Cambodia,” *Center for Khmer Studies*, Siem Reap, Cambodia (February 26, 2021).
- “Ancient Discoveries from Cambodia,” *Abbott Laboratories*, San Mateo, California (April 8, 2020).
- “Top-down and bottom-up water management: A diachronic model of changing water management strategies at Angkor, Cambodia,” *University of Oregon*, Eugene, Oregon (October 8, 2019).
- “The adaptive capacity of the water management systems of two medieval cities in Cambodia” *Colloquium Speaker Series, Department of Anthropology, University of Oregon*, Eugene, Oregon (October 7, 2019).
- “Koh Ker Archaeological Project (KKAP): Initial results from the ground-penetrating radar surveys at the Prang and the Palace,” *International Coordination Committee for the Conservation and Enhancement of the Temple of Preah Vihear (ICC-PV), United Nations Educational, Scientific and Cultural Organization (UNESCO)*, Siem Reap, Cambodia (September 19, 2019).
- “Environmental change, political ‘collapse,’ and migration in medieval Cambodia,” *Climate Change and History Research Initiative Colloquium, Princeton University*, Princeton, NJ (April 25, 2019).
- “Using landscape data to map the rise of urbanism and diachronic changes in water management and social complexity at Angkor, Cambodia,” *University of Toronto*, Toronto, Ontario (April 15, 2019).
- “Using remote sensing techniques to understand water management and urbanism at Koh Ker,” *International Coordination Committee for the Conservation and Enhancement of the Temple of Preah Vihear (ICC-PV), United Nations Educational, Scientific and Cultural Organization (UNESCO)*, Siem Reap, Cambodia (March 21, 2019).
- “Agro-urban environments and implications for resilience in medieval Cambodia,” *Garden and Landscapes Program, Dumbarton Oaks*, Washington, DC (Nov. 14, 2018).
- “An archaeological perspective on resilience and water management systems,” *Scholarship sponsorship talk, monthly meeting, Philanthropic Educational Organization (P.E.O.)*, Phoenix, Arizona (April 23, 2017).

## CONFERENCE AND WORKSHOP PARTICIPATION

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### Workshops Organized

**Klassen, S.** (2023, April), “The Archaeology of Alternate Urbanisms in the Tropical World in the Context of New Technologies and Methodologies: Lasers, Radar, and AI,” Debates in Archaeology, The Archaeology Centre at the University of Toronto, Toronto Canada.

Waagen, J., Lambers, K., Kalayci, T., **Klassen, S.**, Verschoof, W.B., Lang, M., (2022, June), “Archon Research School of Archaeology, Workshop Lidar,” Leiden University, Leiden, Netherlands.

Evans, D., **Klassen, S.**, Cohen, A., & Pottier, C. (2018, Dec.), “Paris dialogue on archaeological lidar,” The École française d'Extrême-Orient, Paris, France.

### **Panels and Sessions Organized**

**Klassen, S.** (2022, June), “Status of Archaeological Lidar Projects in Southeast Asia: Case Studies from Angkor and Beyond,” Archon Research School of Archaeology, Workshop Lidar, Leiden, Netherlands

**Klassen, S.** (2022, June), “Greater Angkor Region Lidar Tutorial,” Archon Research School of Archaeology, Workshop Lidar, Leiden, Netherlands

Fletcher, R., & **Klassen, S.** (2022, April). “Internal structure of low-density urbanism,” at the Society for American Archaeology 85<sup>th</sup> Annual Meeting, Chicago, IL.

**Klassen, S.** (2018, April). “Urbanism, production, and empire: New case studies from Angkorian Cambodia,” at the Society for American Archaeology 83<sup>rd</sup> Annual Meeting, Washington, DC.

### **Panelist**

**Klassen, S.**, Chase, A. & Lasponara, R. (2018, Dec.) “Updates on projects worldwide,” Paris Dialog on Archaeological Lidar, The École française d'Extrême-Orient, Paris, France.

### **Papers**

Fletcher, R., & **Klassen, S.** (2022, Nov.). “Diachronic Spatial Organisation in Greater Angkor 7<sup>th</sup> to 15<sup>th</sup> centuries CE,” Indo-Pacific Prehistory Association, Chiang Mai, Thailand.

**Klassen, S.** & Fletcher, R., (2022, Sept.). “Settlement pattern modelling and the structure of urbanism over time at Angkor, Cambodia,” European Association of Archaeologists, Budapest, Hungary.

Attorre, T. & **Klassen, S.**, (2022, Sept.). “Investigating Occupational Surfaces and Archaeological Record Formation using ground penetrating radar at a medieval Angkorian Site, Koh Ker, in Northern Cambodia,” European Association of Archaeologists, Budapest, Hungary.

Laudauer, J., **Klassen, S.**, Van Der Kroon, J., & Verschoof, W.B., (2022). “Beyond the Greater Angkor region: automatic large-scale mapping of Khmer Empire reservoirs in satellite imagery using Deep Learning.” International Conference on Computer Applications & Quantitative Methods in Archaeology, Oxford, England.



- Klassen, S.,** Attorre, A., Phakdey, P., Samnang, P., Loyless, A., & Hill, M. (2022, April). “Koh Ker Archaeological Project: Remote Sensing of the Inner Courtyard Koh Ker,” Society for American Archaeology, Chicago, IL.
- Fletcher, R., **Klassen, S.** Prevedoros, P., Ortman, S., & Dharmendra, B. (2022, April). “Scaling effects in the denser occupation areas of Greater Angkor: Patterns and implications,” Society for American Archaeology, Chicago, IL.
- Klassen, S.,** Ortman, S., Lobo, J., & Evans, D. (2021, September). “Increasing returns to agricultural intensification at Angkor, Cambodia,” European Association of Archaeologists, Kiel, Germany.
- Klassen, S.,** Ortman, S., & Lobo, J. (2021, April). “Increasing returns to agricultural intensification at Angkor, Cambodia,” Society for American Archaeology 86<sup>th</sup> Annual Meeting, San Francisco, CA.
- Carter, A. & **Klassen, S.** (2021, April). “Diachronic modeling of the population within the Greater Angkor settlement complex,” Society for American Archaeology 86<sup>th</sup> Annual Meeting, San Francisco, CA.
- Klassen, S.** (2019, Nov.). “Quantitatively evaluating the adaptive capacity of the water management system of medieval Angkor, Cambodia,” American Anthropological Association Annual Meeting, Vancouver, BC.
- Klassen, S.** (2019, April). “Emerging epicenters and complementary centralized and decentralized water management strategies at medieval Angkor, Cambodia,” Society for American Archaeology 84<sup>th</sup> Annual Meeting, Albuquerque, NM.
- Russell, W. & **Klassen, S.** (2019, April). “Then and now: Conservative and progressive politics at the Mimbres site of Swarts,” Society for American Archaeology 84<sup>th</sup> Annual Meeting, Albuquerque, NM.
- Klassen, S.,** Evans, D., & Pottier, C. (2018, Dec.). “Status of archaeological lidar projects in Southeast Asia,” Paris Dialog on Archaeological Lidar, The École française d'Extrême-Orient, Paris, France.
- Klassen, S.** (2018, Aug.). “Settlement and scaling in medieval Cambodia,” Settlement Scaling and the Challenge of Mayan Low-Density Urbanism Workshop, The Santa Fe Institute, Santa Fe, NM.
- Klassen S.** (2018, April). “The adaptive capacity of the water management system of Angkor, Cambodia,” Society for American Archaeology 83<sup>rd</sup> Annual Meeting, Washington, DC.
- Kerwin, R. & **Klassen, S.** (2018, April). “The development of hydroelectric power on ancestral land in southern Chile” Society for American Archaeology 83<sup>rd</sup> Annual Meeting, Washington, DC.

Lane, R., **Klassen S.**, & Kerwin, R. (2018, April). "Parting the sea and draining the swamp: A critical review of binary approaches to water management," Society for American Archaeology 83<sup>rd</sup> Annual Meeting, Washington, DC.

**Klassen, S.** (2018, March). "An amalgamation of centralized and decentralized water management strategies: An archaeological case-study from medieval Cambodia," Society for Economic Anthropology Annual Meeting on Water & Economy, Tempe, AZ.

**Klassen, S.**, Moffat, I., Lustig, T., & Evans, D. (2017, July). "Noninvasively mapping subsurface topography to understand hydraulic failure: Results from GPR investigations of a water management feature at Koh Ker, Cambodia," 16<sup>th</sup> International Conference of the European Association of Southeast Asian Archaeologists, Poznań, Poland.

**Klassen, S.** & Kerwin, R. (2017, July). "Initial attempts to produce a chronology for Angkorian period pedestals," 16<sup>th</sup> International Conference of the European Association of Southeast Asian Archaeologists, Poznań, Poland.

Lustig, T., **Klassen, S.**, Evans, D. & French, R. (2017, July). "The short life of a water-control feature and Koh Ker's Short Term as the Khmer Political Center," 16<sup>th</sup> International Conference of the European Association of Southeast Asian Archaeologists, Poznań, Poland.

**Klassen, S.**, Weed, J., & Evans, D. (2017, March). "Untangling the urban morphology of medieval Angkor, Cambodia." Society for American Archaeology 82<sup>nd</sup> Annual Meeting, Vancouver, BC.

Russell, W. & **Klassen, S.**, (2017, March). "The presence and potential representation of turquoise at the Mimbres site of Galaz." Society for American Archaeology 82<sup>nd</sup> Annual Meeting, Vancouver, BC.

**Klassen, S.**, Weed, J., & Evans, D. (2017, March). "Discerning the urban morphology of Angkor using a semi-supervised algorithm for manifold learning." International Conference on Computer Applications and Quantitative Methods in Archaeology, Atlanta, GA.

**Klassen, S.**, Lustig, T., & Evans, D. (2016, April). "Using adaptive capacity to assess the water management system of Koh Ker, Cambodia." Society for American Archaeology 81<sup>st</sup> Annual Meeting, Orlando, FL.

**Klassen, S.**, Evans, D., Lustig, T., & le Plastrier, B. (2015, July). "Evaluating the sustainability of an Angkor-period engineered landscape at Koh Ker, Cambodia." 15<sup>th</sup> International Conference of the European Association of Southeast Asian Archaeologists. Paris, France.

**Klassen, S.**, Evans, D., Lustig, T., le Plastrier, B., & Lustig, E. (2015, April). "Evaluating the sustainability of an Angkor-period engineered landscape at Koh Ker, Cambodia." Society for American Archaeology 80<sup>th</sup> Annual Meeting, San Francisco, CA.

**Klassen, S.** & White, J. (2015, Jan.). "Preliminary analysis using Middle Mekong Archaeological Project GIS data: A model to recommend prehistoric agrarian sites in the Middle Mekong basin for excavation," Asian Network for GIS-based Historical Studies (Japan), Bangkok, Thailand.

Samnang, K., **Klassen, S.**, & White, J. (2014, Jan.). “Hoabinhian landscape use in Luang Prabang province: A geospatial assessment,” the 20<sup>th</sup> Indo-Pacific Prehistory Association Congress, Siem Reap, Cambodia.

**Klassen, S.**, & White, J. (2014, April). “Modeling relative access to arable land in the Mekong basin, Laos.” Society for American Archaeology 79<sup>th</sup> Annual Meeting, Austin, TX.

## Posters

Kerwin, K. & **Klassen, S.** (2017, March). “Developing typologies for architectural elements of Angkorian period temples.” Society for American Archaeology 82<sup>nd</sup> Annual Meeting, Vancouver, BC.

**Klassen, S.** (2016, March). “Lessons from collapse: The adaptive capacity of the water management system of Koh Ker, Cambodia.” Institute for Social Science Research, Interdisciplinary Research Symposium, Tempe, AZ.

**Klassen, S.**, Evans, D., Lustig, T., le Plastrier, B., and Lustig, E. (2015, March). “Evaluating the sustainability of an Angkor-period engineered landscape at Koh Ker, Cambodia.” Graduate and Professional Student Association, ASU, Interdisciplinary Research Symposium, Tempe, AZ.

**Klassen, S.** (2013, April), “Social identities and design interpretation of Mimbres black-on-white bowls.” Society for American Archaeology 78<sup>th</sup> Annual Meeting, Honolulu, HI.

**Klassen, S.** (2010, April). “El Antigual: A test of the representativeness of surface material.” Society for American Archaeology 75<sup>th</sup> Annual Meeting, St. Louis, MO.

## CAMPUS TALKS AND GUEST LECTURES

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“Satellites, LiDAR, and AI: The rise of urbanism at Angkor (802 – 1400 CE),” Archaeology Centre talks, University of Toronto (Nov. 18, 2022).

“The Greater Angkor Region and Beyond,” *What are they up to now?* Leiden University (July 1, 2021).

“Remote sensing and the rise of urbanism at medieval Angkor, Cambodia,” *Digital Archaeology Group*, Leiden University (February 11, 2021).

“Water management strategies at Angkor, Cambodia,” *Introduction to Southeast Asian Archaeology*, University of Oregon, Eugene, Oregon (February 5, 2020).

“Medieval Angkor,” *Gods, Ghosts, and Graves: Archaeology of Religions, the Save Ancient Studies Association* (July 27, 2020).

“Gender and equality in the western World,” *Pannasastra University of Cambodia*, Siem Reap, Cambodia (March 6, 2019).

“Using geographic systems analyses to understand changing land-use patterns at the medieval complex of Angkor, Cambodia,” *Geography Department Colloquium, University of British Columbia*, Vancouver, BC (September 8, 2020).

“GIS applications in archaeology,” *GEOB 270 101: Geographic information science*, University of British Columbia, Vancouver, BC (Nov 21, 2019).

“Water management at Angkor, Cambodia,” *Human Impact*, Arizona State University, Tempe, Arizona (March 27, 2018).

“Thinking about graduate school in the social sciences?” *ASU College of Liberal Arts and Sciences*, Tempe, Arizona (April 19, 2017).

“Angkor, water, and a new kind of urbanism,” *Buried Cities and Lost Tribes: Old World*, Mesa Community College, Mesa, Arizona (March 9, 2015).

“2012 Field Season at Roadmap Village, Mimbres Prehistoric Landscapes Project,” *School of Human Evolution and Social Change Archaeology Brown Bag*, Arizona State University, Tempe, Arizona (Oct 5, 2012).

## TEACHING EXPERIENCE

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### Courses

Women in Other Cultures      **Instructor**, Phoenix Community College  
*Spring 2023, Fall 2022, Spring 2022 x2, Fall 2021x2, Spring 2021x2, Fall 2020x2, Spring 2020, Spring 2019*

**Instructor**, Chandler-Gilbert Community College  
*Fall 2023*

Buried Cities and Lost Tribes: New World      **Instructor**, Phoenix Community College  
*Fall 2022, Summer 2022, Summer 2021, Summer 2020, Spring 2020, Spring 2019*

**Instructor**, Chandler-Gilbert Community College  
*Spring 2023*

Buried Cities and Lost Tribes: Old World      **Instructor**, Phoenix Community College  
*Spring 2021, Fall 2020, Fall 2019x2, Fall 2018x2,*

**Instructor**, Chandler-Gilbert Community College  
*Spring 2023*

School of Human Evolution and Social Change Research Internship      **Instructor**, Arizona State University  
*Spring 2018*

Humans and the Environment      **Instructor**, Osher Lifelong Learning Institute, Arizona State University  
*Fall 2017*

School of Human Evolution and Social Change  
Research Internship

**Instructor**, Arizona State University  
*Fall 2017, Spring 2016, Fall 2015*

## Field Schools

Summer 2016 **Lecturer and Field Instructor**  
*East Asia Summit International Field School, Koh Ker, Cambodia*  
The Institute of Southeast Asian Studies, Yusof Ishak Institute

Winter 2015 **Lecturer and Field Instructor**  
*East Asia Summit International Field School, Koh Ker, Cambodia*  
The Institute of Southeast Asian Studies, Yusof Ishak Institute

Summer 2012 **Teaching Assistant**  
*Mogollon Prehistoric Landscapes Project (MPLP), Truth or Consequences, New Mexico*  
Arizona State University

## RESEARCH EXPERIENCE

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### Project Roles

	<b>Role</b>	<b>Project</b>
2020 – Pres.	<i>Co-Lead Investigator</i>	Lidar Initiative for Southeast Asia (LISA)
2019-Pres.	<i>Lead Investigator</i>	Koh Ker Archaeological Project (KKAP)
2017-Pres.	<i>Co-Lead Investigator</i>	Cambodian Archaeological Lidar Initiative (CALI)
2013-Pres.	<i>Research Associate</i>	Greater Angkor Project (GAP)
2013-Pres.	<i>Research Associate</i>	Khmer Archaeology Lidar Consortium (KALC)
2012-2017	<i>Laboratory Coordinator</i>	Easter Mimbres Archaeological Project (EMAP), Arizona State University

### Fieldwork

	<b>Role</b>	<b>Fieldwork</b>
2023	<b>Director</b>	Archaeological Survey and Pilot Lidar scan at Phnom Sandak, Cambodia.
2021	<b>Director</b>	Archaeological and Geophysical investigations at Koh Ker, Cambodia <i>Koh Ker Archaeological Project (KKAP)</i>

2021	<b>co-Director</b>	Lidar and ground penetrating radar acquisition over Wat Phu, Laos <i>Lidar Initiative for Southeast Asia (LISA)</i>
2019 (Dec.)	<b>Director</b>	Archaeological and Geophysical investigations at Koh Ker, Cambodia <i>Koh Ker Archaeological Project (KKAP)</i>
2019 (March)	<b>Director</b>	Archaeological and Geophysical investigations at Koh Ker, Cambodia <i>Koh Ker Archaeological Project (KKAP)</i>
2019 (April)	<b>Director</b>	Lidar Survey and Ground Verification at Sambor Prei Kuk, Cambodia <i>Cambodian Archaeological Lidar Initiative (CALI)</i>
2017 (Dec.)	<b>Director</b>	Ground Penetrating Radar Investigations at Angkor Thom, Cambodia <i>Greater Angkor Project (GAP)</i>
2017 (Dec.)	<b>Director</b>	Ground Verification of Temple Sites at Angkor, Cambodia <i>Greater Angkor Project (GAP)</i>
2016 (Dec.)	<b>Director</b>	Ground Penetrating Radar Investigations at the Northern Chute at Koh Ker, Cambodia <i>Khmer Archaeology Lidar Consortium (KALC)</i>
2016 (Dec.)	<b>Director</b>	Ground Verification of Temple Sites at Angkor, Cambodia <i>Greater Angkor Project (GAP)</i>
2015 (Dec.)	<b>co-Director</b>	Excavations of the Northern Chute at Koh Ker, Cambodia <i>Khmer Archaeology Lidar Consortium (KALC)</i>
2014	<b>Field Technician</b>	Pedestrian Survey of the Water Management Features of Koh Ker, Cambodia <i>Khmer Archaeology Lidar Consortium (KALC)</i>
2013	<b>Field Technician</b>	South African Coast Paleoclimate, Paleoenvironment, Paleoecology, Paleoanthropology Project and Mossel Bay Archaeological Project (SACP4/MAP), ASU, Mossel Bay, South Africa

## **PUBLIC OUTREACH AND MEDIA APPEARANCES**

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<b>Role</b>	<b>Service</b>
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2023	<i>Interview</i>	Interview for <i>Good Morning Arizona</i> .
2023	<i>Interview</i>	Interview with Pat McMahon for <i>AZ Daily Mix</i> for AZTV7
2022	<i>Expert contributor</i>	“Expedition Unknown,” Discovery Channel
2022	<i>Expert contributor</i>	“Ancient Apocalypse,” Zweites Deutsches Fern sehen
2022	<i>Expert contributor</i>	Live stream and watch party of “Jungle Empires,” on Twitter Spaces with Moments in History NFT.
2022	<i>Expert contributor</i>	“Twitter Spaces with Dr. Sarah,” Moments in History NFT.
2022	<i>Expert contributor</i>	“Lost Cities of the Jungle,” <i>Discovery Science Plus</i> , Two-hour special on the Cambodian Archaeological Lidar Initiative.
2022	<i>Interview</i>	Interview for <i>Wissenschaft im Brennpunkt (Science in Focus)</i> , German public radio
2021	<i>Lead author</i>	“A metropolis arose in medieval Cambodia – new research shows how many people lived in the Angkor Empire over time” <i>The Conversation</i> .
2020	<i>Expert contributor</i>	“Ancient China from Above with Dr. Allan Maca and Dr. Sarah Klassen, Archaeologists in Quarantine,” <i>Behind the Trowel</i> , YouTube Livestream.
2020	<i>Lead author</i>	“How Kings Created Angkor Wat – Then Lost it,” <i>Sapiens: Anthropology Magazine</i> .
2020	<i>Expert contributor</i>	“Ancient China from Above,” <i>The National Geographic Channel</i> .
2019	<i>Lead author</i>	“Reading Between the Lines: Ancient Color Codes and Evidence of Inter-Societal Complementarity,” <i>Sapiens: Anthropology Magazine</i> .
2019	<i>Expert contributor</i>	“LIDAR in Cambodia with Dr. Sarah Klassen,” <i>The ArchaeoTech Podcast</i> .
2019	<i>Expert contributor</i>	“Chasing the Equinox.” <i>The National Geographic Channel</i> .
2019	<i>Expert contributor</i>	“TTB 043: Archaeological Exploration in Cambodia,” <i>The Travelers Blueprint Podcast</i> .
2018	<i>Expert contributor</i>	“How Bad Karma and Bad Engineering Doomed an Ancient Cambodian Capital: Never doubt the power of the monsoon,” by Megan Gannon in <i>Atlas Obscura</i> .

## PROFESSIONAL SERVICE

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Scientific article reviews for *Journal of Anthropological Archaeology*, *Plos One*, *World Archaeology*, *Journal of Archaeological Sciences*, *Archaeological Research in Asia*, and *Journal of Archaeological Research*.

### Book Reviews

Ancient Southeast Asia. JOHN NORMAN MIKSIC and GEOK YIAN GOH. 2017. Routledge, London. For *American Antiquity* by **Klassen, S.**

	<b>Role</b>	<b>Service</b>
2020-present	Board Member	<i>Journal of Impact Archaeology</i>
2018-2019	Program Committee	Society for American Archaeology 84 <sup>th</sup> Annual Meeting, Albuquerque, NM
2016	Volunteer	Society for American Archaeology 81 <sup>th</sup> Annual Meeting, Orlando, FL
2012-2015	Grant Reviewer	The Graduate and Professional Student Association, ASU, Tempe, AZ
2015	Volunteer	Society for American Archaeology 80 <sup>th</sup> Annual Meeting, San Francisco, CA
2014	Volunteer	Society for American Archaeology 79 <sup>th</sup> Annual Meeting, Austin, TX
2013	Volunteer	Society for American Archaeology 78 <sup>th</sup> Annual Meeting, Honolulu, HI
2012-2013	Treasurer	Association of All Graduate Students, ASU, Tempe, AZ
2012	Volunteer	Society for American Archaeology 77 <sup>th</sup> Annual Meeting, Memphis, TN

## PROFESSIONAL MEMBERSHIPS

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- 2018 – Pres. American Anthropological Association
- 2018 – Pres. Association of Mainland Southeast Asia Scholars



2018 – Pres. Society of Economic Anthropology  
2011 – Pres. Society for American Archaeology  
2018 Graduate Women in Science

## PROFESSIONAL EXPERIENCE

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2018 *Digital Data Curator* Digital Antiquity, Tempe, AZ  
2018 *Archaeologist* Arizona State Parks and Trails, Phoenix, AZ  
2011 - 2012 *Digital Data Curator* Digital Antiquity, Tempe, AZ

## REFERENCES

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