

Elise J. Laugier

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ACADEMIC APPOINTMENTS

- 2023–present **Assistant Professor of Geospatial Science**, Utah State University, Department of Environment and Society
Faculty Affiliate, Ecology Center, Utah State University
Visiting Research Associate, Department of Anthropology, Rutgers University
- 2021–2023 **NSF SBE Postdoctoral Research Fellow**, Rutgers University, Department of Anthropology & Center for Human and Evolutionary Studies

EDUCATION

- Ph.D.** **Dartmouth College**, Ecology, Evolution, Environment, and Society (EEES), 2021
Dissertation: “Reconstructing Agro-Pastoral Land Use in the Mesopotamian-Zagros Foothills.” Committee: J. Casana (chair), Deborah Nichols, Nathaniel Dominy, Laura Ogden, Alexia Smith (external).
- M.A.** **University of Arkansas**, Anthropology, 2013
- B.A.** **Wheaton College**, Archaeology, 2010

PUBLICATIONS (* = graduate student, ** = undergraduate student)

Peer-Reviewed Journal Articles

- Accepted Creamer, P.M. Kaercher, K., Babakr, N., Jodat, A., *Maynard, G., Laugier, E.J., *Poolman, L., Proctor, L., Swerida, J., *Zane, P., and **Vo, S., “Preliminary Results of the Rural Landscapes of Iron Age Imperial Mesopotamia Project 2022-2023: Excavations and Remote Sensing at Qach Rresh (Iraqi Kurdistan),” *Iraq*. Accepted Aug 5, 2024.
- Accepted Glatz, C., Sorotou, A., Rasheed Raheem, K., Hama Abdullah, H., Mohammed-Amin, R.K., Marf, D.A., Abdullatif, N., Amin, A., Calderbank, D., Laugier, E.J., Hamdan S., Ali, M., Ahmad, A., Mohammed Sameen, S., and Muhammed Haydar, S. Archaeology as cultural heritage in the Kurdistan Region of Iraq: Developing an integrated approach beyond narratives of catastrophe and emergency response. *Current Anthropology*.
- 2022 Laugier, E.J., Abdullatif, N., Glatz, C. Embedding the remote sensing monitoring of archaeological site damage at the local level: Results from the “Archaeological practice and heritage protection in the Kurdistan Region of Iraq” project. *PLOS ONE* 17, e0269796. <https://doi.org/10.1371/journal.pone.0269796>.
- 2022 Laugier, E.J., Casana, J., Cabanes, D. Phytolith evidence for the pastoral origins of multi-cropping in Mesopotamia (ancient Iraq). *Scientific Reports* 12, 60. <https://doi.org/10.1038/s41598-021-03552-w>.
- 2022 *Fannin, L.D., Laugier, E.J., van Casteren, A., Greenwood, S.L., Dominy, N.J., Differentiating siliceous particulate matter in the diets of mammalian herbivores. *Methods in Ecology and Evolution*. <https://doi.org/10.1111/2041-210X.13934>.
- 2022 McCoy, M.D., Casana, J., Hill, A.C., Laugier, E.J., Ladefoged, T.N., 2022. Mapping Ancient Architecture via Unpiloted Aerial Vehicle–acquired LiDAR: A Case Study of Hōlualoa Royal Centre, Kona District, Hawai‘i Island. *Journal of the Polynesian Society* 131, 71–92. <https://doi.org/10.15286/jps.131.1.71-92>.

- 2021 **Laugier, E.J.**, Casana, J. Integrating Satellite, UAV, and Ground-Based Remote Sensing in Archaeology: An Exploration of Pre-Modern Land Use in Northeastern Iraq. *Remote Sensing* 13, 5119. <https://doi.org/10.3390/rs13245119>.
- 2021 Casana, J., **Laugier, E.J.**, Hill, A.C., Reese, K.M., Ferwerda, C., McCoy, M.D., Ladefoged, T. Exploring archaeological landscapes using drone-acquired lidar: Case studies from Hawai'i, Colorado, and New Hampshire, USA. *Journal of Archaeological Science: Reports* 39, 103133. <https://doi.org/10.1016/j.jasrep.2021.103133>.
- 2021 **Laugier, E.J.**, Casana, J., Glatz, C., Sameen, S.M., Cabanes, D. Reconstructing agropastoral practice in the Mesopotamian-Zagros borderlands: Insights from phytolith and FTIR analysis of a dung-rich deposit. *Journal of Archaeological Science: Reports* 38, 103106. <https://doi.org/10.1016/j.jasrep.2021.103106>.
- 2021 McCoy, Mark D., Jesse Casana, Austin Chad Hill, **E. J. Laugier**, Mara A. Mulrooney, and Thegn N. Ladefoged. Unpiloted Aerial Vehicle Acquired Lidar for Mapping Monumental Architecture: A Case Study from the Hawaiian Islands. *Advances in Archaeological Practice*. <https://doi.org/10.1017/aap.2021.5>.
- 2020 Gildner, T.E., **Laugier, E.J.**, Thayer, Z.M., 2020. Exercise routine change is associated with prenatal depression scores during the COVID-19 pandemic among pregnant women across the United States. *PLOS ONE* 15, e0243188. <https://doi.org/10.1371/journal.pone.0243188>.
- 2020 Casana, J., **E.J. Laugier**, A.C. Hill & D. Blakeslee. A Council Circle at Etzanoa? Multi-sensor Drone Survey at an Ancestral Wichita Settlement in Southeastern Kansas. *American Antiquity*. Cambridge University Press, 1–20. <https://doi.org/10.1017/aaq.2020.49>.
- 2020 Hill, A.C., **Laugier, E.J.**, Casana, J., 2020. Archaeological Remote Sensing Using Multi-Temporal, Drone-Acquired Thermal and Near Infrared (NIR) Imagery: A Case Study at the Enfield Shaker Village, New Hampshire. *Remote Sensing* 12(4). <https://doi.org/10.3390/rs12040690>.
- 2019 Glatz, C., Casana, J., Bendrey, R., Beysal, E., Calderbank, D., Chelazzi, F., Del Bravo, F., Erskine, N., Hald, M.M., **Laugier, E.J.**, Jensen, E., Perruchini, E. Babylonian Encounters in the Upper Diyala Valley: Contextualizing the Results of Regional Survey and the 2016-2017 Excavations at Khani Masi. *American Journal of Archaeology* 123: 439–71. <https://doi.org/10.3764/aja.123.3.0439>.
- 2019 Hill, A.C., F. Limp, J. Casana, **E.J. Laugier** & M. Williamson. A New Era in Spatial Data Recording: Low-Cost GNSS. *Advances in Archaeological Practice* 7: 169–77. <https://doi.org/10.1017/aap.2018.50>.
- 2017 Casana, J., A. Wiewel, A. Cool, A.C. Hill, K.D. Fisher & **E.J. Laugier**. Archaeological Aerial Thermography in Theory and Practice. *Advances in Archaeological Practice* 5: 310–27. <https://doi.org/10.1017/aap.2017.23>.
- 2017 Casana, J. & **E.J. Laugier**. Satellite imagery-based monitoring of archaeological site damage in the Syrian civil war. *PLOS ONE* 12: e0188589. <https://doi.org/10.1371/journal.pone.0188589>.

Edited Journal Issues

- 2021 Casana, J. and **E.J. Laugier** (guest editors). *Remote Sensing*, Special Issue: “Remote Sensing of Past Human Land Use” (ISSN 2072-4292).

Selected Reports

- 2021 Sharp, K., Chandler, S., Gutiérrez, M., Franco, N., **Laugier, E.**, Nichols, D.L., Schmid, O., “Report on 86th Annual Meeting Evaluation and Thoughts on Virtual Components at Future Meetings.” *The SAA Archaeological Record* 21, 7–10.

GRANTS

External Grants and Fellowships

- 2023–Present **Utah System of Higher Education. Deep Technology Talent Initiative.**
Co-Principal Investigator (PI: Shannon Belmont, Awarded to USU’s *S.J. and Jessie E. Quinney College of Natural Resources*), “New Certificates in Remote Sensing and Geospatial Artificial Intelligence” (\$674,799). End Date: Nov 2026.
- 2021–Present **National Science Foundation. Senior Archaeology Program (Arch-SR).**
Co-Principal Investigator (PI: Dan Cabanes, Rutgers Univ., Award #2120508), “Tracing Human Response to Environmental Variability” (\$237,214). End Date: August 2025
- 2021–2024 **National Science Foundation. SBE Postdoctoral Research Fellowship (SPRF).**
Principal Investigator (Co-PI: Dan Cabanes, Award #2104997), “Land Use Legacies in Agroecosystems” (\$148,000). End Date: May 2024
- 2020–2021 **National Aeronautics and Space Administration (NASA). Research Opportunities in Space and Earth Sciences (ROSES).**
Listed as Senior Personnel (PI: J. Casana, Dartmouth College, #19-IDS19-0023), “Exploring Archaeological Landscapes Using Satellite, Aerial, and Drone-Acquired Short-Wave Infrared (SWIR) Imagery” (\$281,201)
- 2019–2020 **American Schools of Overseas Research (ASOR). Mesopotamian Fellowship.**
Fellow (Dissertation research fellowship awarded annually), “Shakhi Kura: A 4th millennium BC site in the Upper Diyala (Iraqi Kurdistan)” (\$9,000)
- 2016–2021 **Dartmouth College, Graduate Program in Ecology, Evolution, Environment & Society (EEES)**
Graduate Teaching Fellow (Stipend + \$2,000/year)
- 2011–2012 **University of Arkansas, King Fahd Center of Middle Eastern & Islamic Studies.**
Graduate Teaching Assistant (Stipend)

Internal Grants and Awards

- 2023 **Utah State Undergraduate Research and Creative Opportunities (URCO) Grant**
Faculty Mentor, Research stipend for undergraduate student (\$1,000)
- 2019 **Dartmouth College Claire Garber Goodman Fund for the Anthropological Study of Human Culture.** Departmental research fund awarded annually (\$4,642)
- 2019 **Dartmouth College EEES Research and Professional Development Fund Award.** (\$2,000)
- 2019 **Dartmouth College Guarini School of Graduate and Advanced Studies. Conference Travel Award.** (\$1,000)
- 2017 **Dartmouth College Claire Garber Goodman Fund for the Anthropological Study of Human Culture.** Departmental research fund awarded annually. (\$4,500)

RESEARCH PROJECTS

Current

- 2022–Present **[Erbil Plain Archaeological Survey \(EPAS\)](#) (Harvard Univ.), Kurdistan Region, Iraq**
Environmental & Landscape Archaeologist
- 2022–Present **[Rural Landscapes of Iron Age Mesopotamia \(RLIIM\)](#) (Emory Univ.), Kurdistan Region, Iraq**
Microarchaeology Specialist
- 2021–Present **Tracing Human Response to Environmental Variability (Rutgers Univ., NSF Arch SR# 2120508)**
Co-PI, Geospatial and Phytolith Specialist

Previous Research Projects and Affiliations

- 2019–2024 **Anthropology Lab for MicroArchaeology (ALMA) (Rutgers University)**
Visiting Scientist
- 2021–2023 **Center for Human Evolutionary Studies (CHES), Rutgers University**
CHES Affiliate
- 2015–2021 **Sirwan (Upper Diyala) Regional Project (SRP), Kurdish Region, Iraq**
Archaeologist and Geospatial Specialist
- 2018–2021 **Spatial Archaeometry Lab (SPARCL) at Dartmouth College.**
Geophysics Specialist and Drone Pilot
NSF-Funded Project: “Collaborative Research Spatial Archaeometry: Integrating Spatial Analysis into Archaeological Research.” Various locations: Mexico, Pacific (HI), Great Plains (KS), Southwest (CO), & New England (NH).
- 2018–2020 **Archaeological Practice & Heritage Protection in the Kurdistan Region of Iraq Project, University of Glasgow.**
Remote Sensing and Cultural Heritage Specialist
Funded by the British Council’s Cultural Protection Fund
- 2019 **Digging Dartmouth: Dartmouth College Campus Archaeology Initiative.**
Geophysics Specialist and Archaeologist
- 2014–2016 **Joint U.S. Department of State & ASOR Cultural Heritage Initiatives: Syria & Iraq.**
Remote Sensing and Cultural Heritage Specialist
U.S. Department of State-funded project. A cooperative agreement between the State Department and the American Schools of Overseas Research (ASOR) to document, protect, and preserve the cultural heritage of war-torn Syria and northern Iraq.
- 2012 **Kalavastos and Maroni Built Environments (KAMBE) Project, Cyprus.**
Geophysics Specialist
- 2011–2013 **Center for Advanced Spatial Technologies (CAST), University of Arkansas.**
Graduate Research Assistant
- 2011 **Dubai Desert Survey, Dubai, United Arab Emirates** *Archaeologist*

CONFERENCE ACTIVITY (* = graduate student, ** = undergraduate student)

Sessions Organized (co-chair)

- 2022–Present “Environmental Archaeology of the Ancient Near East” American Society of Overseas Research (ASOR) Annual Meeting.
- 2018 “New Directions in Archaeological Aerial and Satellite Remote Sensing,” Computer Applications and Quantitative Methods in Archaeology (CAA), Tübingen, Germany.

Papers Presented

- Accepted **Laugier, E.J.** and D. Cabanes, “Refining the phytolith signal in the archaeological record: Insights from modern sediment analysis.” American Society of Overseas Research (ASOR) Annual Conference, Boston, MA.
- Accepted ***Ramrekha, A.M., E.J. Laugier,** E. Boaretto, A. Maeir, and D. Cabanes, “Phytoliths from construction materials in Tell es-Safi/Gath: methods from extraction and significance.” American Society of Overseas Research (ASOR) Annual Conference, Boston, MA.
- Accepted Creamer, P.M., K. Kaercher, ***G. Maynard, *L.A. Poolman,** L. S. Proctor, **E.J. Laugier,** “Excavation and Remote Sensing Results from the 2024 Season at Qach Rresh.” American Society of Overseas Research (ASOR) Annual Conference, Boston, MA.
- 2023 Cabanes, D, ***Ramrekha, A.M., *Papavasiliou, D., *Johnson, K., *Andrews, T., and Laugier, E.,** “Microcharcoal quantification in the archaeological record: taphonomic biases and new approaches,” Geological Society of America (GSA) Connects Annual Meeting, Pittsburgh, PA. <http://doi.org/10.1130/abs/2023AM-390879>

- 2023 **Laugier, E.J.**, J. Ur, M. Lashkri, and D. Cabanes. "Connecting Mesopotamian economies and ecologies: first results from regional phytolith research in the Erbil Plain" International Congress on the Archaeology of the Ancient Near East (ICAANE), Copenhagen.
- 2022 **Laugier, E.J.** "Recent research on late prehistoric occupation along the Upper Diyala/Sirwan River (Garmian, Iraqi Kurdistan)." American Society of Overseas Research (ASOR) Annual Conference, Boston, MA.
- 2022 **Laugier, E.J.** "Agricultural Landscapes of the Mesopotamian-Zagros Foothills," Society for American Archaeology (SAA) Annual Conference, Chicago, IL.
- 2021 **Laugier, E.J.** and D. Cabanes. "Reconstructing Bronze Age agro-pastoral practice in the Mesopotamian-Zagros foothills: phytolith and FTIR analysis of dung-rich sediments from Khani Masi (Iraq)," 27th Annual Meeting of the European Association of Archaeologists (EAA) and 12th International Meeting for Phytolith Research (IMPR), Kiel, Germany.
- 2021 **Laugier, E.J.** and J. Casana. "Agricultural Landscapes of the Mesopotamian-Zagros Borderlands," Society for American Archaeology Annual Conference. Conference canceled in 2020 and rescheduled to April 2021. (tDAR id: 466800)
- 2019 Hill, A.C., J. Casana, **E.J. Laugier**. "Archaeo-rover: A Low-Cost Robotic System for the Collection of Geophysical Data." Presented at The 84th Annual Meeting of the Society for American Archaeology, Albuquerque, NM. 2019 (tDAR id: 449420)
- 2018 **Laugier, E. J.**, "Reconstructing Mesopotamian Land-Use Histories in Environmentally-Transitional Landscapes: Multi-Spectral Analysis in the Upper Diyala (Sirwan) Watershed (Kurdish Region, Iraq)" American Schools of Overseas Research (ASOR) Annual Conference, Denver, CO.
- 2018 **Laugier, E. J.**, "Reconstructing Land-Use Histories in Ecologically Transitional Mesopotamian Landscapes." Presented at The 82nd Annual Meeting of the Society for American Archaeology, Washington, DC. 2018 (tDAR id: 443516)
- 2018 Casana, J., A.C. Hill, and **E.J. Laugier**, "Drone-Acquired Thermal and Multispectral Imagery as a Tool in Archaeological Prospection," Society for American Archaeology Annual Conference, Washington, D.C. (tDAR id: 443449)
- 2018 **Laugier, E. J.**, "Exploring the Mesopotamian landscape: integrating geophysics and drone-based multi-sensor remote sensing for offsite, land use investigations," Computer Applications and Quantitative Methods in Archaeology (CAA) Annual Conference, Tübingen, Germany.
- 2018 Casana, J., A.C. Hill, and **E.J. Laugier**, "Archaeological Prospection using Drone-acquired Thermal and Multispectral Imagery," Computer Applications and Quantitative Methods in Archaeology (CAA) Annual Conference, Tübingen, Germany.
- 2017 **Laugier, E. J.** and J. Casana, "Cultural Heritage Monitoring Using Time-Sequenced Satellite Imagery: A Case Study from the Syrian Civil War," Computer Applications and Quantitative Methods in Archaeology (CAA) Annual Conference, Atlanta, Georgia.
- 2017 Casana, J. and **Laugier, E. J.**, "Satellite Imagery-based Monitoring of Archaeological Site Damage in the Syrian Civil War," British Association of Near Eastern Archaeology (BANEA) Annual Conference, Glasgow, Scotland.
- 2015 **Laugier, E. J.**, M. Panahipour, and J. Casana, "Monitoring Syria's Cultural Heritage via Time-Sequenced DigitalGlobe Satellite Imagery," American Schools of Overseas Research (ASOR) Annual Conference, Atlanta, Georgia.
- 2013 **Jakoby, E.** and J. Casana, "3D photogrammetric modeling of artifacts, excavations and landscapes using archival, field and aerial photography," Presented at ASOR Annual Conference, Baltimore, Maryland.
- 2012 **Jakoby, E.**, "Considering Kranzhügel: An exploration into the structure and environmental distribution of the third millennium 'Kranzhügel' sites," Presented at the ASOR Annual Conference, Chicago, Illinois.

INVITED TALKS AND GUEST LECTURES

Invited Talks

- 2022 “Land Use Legacies in Agricultural Systems: Linking past and present.” CHES Featured Research Evening. Rutgers University.
- 2022 “Pastoralism in ancient Iraq: Insights from microarchaeology.” Archaeology Lecture Series. Wheaton College.

Guest Lectures

- 2023–2024 Guest Lecturer. Introduction to GIS (GEOG 2800), Utah State University.
- 2023 Guest Lecturer. *Applying and Practicing Archaeological and Heritage Sciences* (ANTH 8200), Georgia State University.
- 2022 Guest Lecturer. *Proseminar in Evolutionary Anthropology* (16:070:502, Fall), Rutgers University
- 2022 Guest Lecturer. *Paleoethnobotany* (ANTHR 3042, Spring), Cornell University
- 2021 Guest Lecturer. *Environmental Archaeology* (ANTH 50.05, Spring), Dartmouth College

TEACHING AND MENTORSHIP

UNDERGRADUATE COURSES

Utah State University

- GEOG3200: Principles of Remote Sensing (planned Spring 2025)
- GEOG4815/6815: Insights from Above: Processing and Analyzing Drone Data (planned Spring 2025)
- ENVS6841: *The Socio-Environmental Research Process*, Instructor (Fall 2024)
- GEOG4860: *Python Programming for GIS*, Instructor (Fall 2023)

Dartmouth College

- ANTH 8: *Rise and Fall of Prehistoric Civilizations*, Co-Instructor (Fall 2020)
- ANTH 50.05: *Environmental Archaeology*, Teaching Assistant & Lab Designer (Winter 2018 & 2020)
- ANTH 50.03: *Digital Archaeology*, Teaching Assistant & Lab Designer (Fall 2018)
- ENVS 25: *Agricultural Ecology*, Teaching Assistant (Summer 2018)
- ENVS 2: *Intro to Environmental Science*, Teaching Assistant (Winter 2017)
- BIO 16: *Intro to Ecology*, Teaching Assistant (Fall 2016 & 2017)

University of Arkansas

- ANTH 1013: *Introduction to Biological Anthropology*, Teaching Assistant (Fall 2011, Spring 2012)

WORKSHOPS

- 2022 “Thinking about UAS Sensors for Your Archaeological Project? Understanding Their Potential and How to Integrate Them into Your Research” SAA Annual Meeting. Sponsored by the Spatial Archaeometry Research Collaborations (SPARC) Program. Instructors: Carla Klehm, **Elise Laugier**, and Emma Menio.
- 2019 Training Workshop on Remote Sensing & GIS for Cultural Heritage Protection in Iraq (UK Cultural Protection Fund, 2019), Designer and Instructor of Workshop 3: **Elise Laugier**. <https://culturalheritageprotection.org/index.php/training/#theme3> (scroll down)

ARCHAEO-GEOPHYSICS FIELD SCHOOL INSTRUCTOR

- 2019 Sirwan Regional Project, Geophysics Training for Archaeology, Kurdish Region, Iraq
- 2012 Kalavassos and Maroni Built Environments (KAMBE) Project, Magnetometry and Photogrammetry for Archaeology, Cyprus

LABORATORY TRAINING, MENTORING, AND CAPACITY BUILDING

- 2024 Robb Young, Undergraduate Research and Creative Opportunities (URCO), USU
2022 (spring) Thomas Pflanz, undergraduate independent study (lab practicum), Rutgers University
2022 (spring) Laura Robbins, undergraduate independent study (lab practicum), Rutgers University
2018–2019 Intensive Training and Capacity Building of Kurdish Archaeologist (Nawzad Abdullatif) in Digital Archaeology Methods for the Cultural Heritage Protection of the Garmian Region (Kurdish Region of Iraq), Training in Glasgow (UK), Iraq, and Remotely

SERVICE

- 2024–Present **Director**, Remote Sensing and Geospatial Artificial Intelligence Certificate of Proficiency (RSGI CP), Utah State University
2023–2024 **Faculty Reviewer**, USU Undergraduate Research and Creative Opportunities (URCO) Grant (Fall 2023, Summer 2024)
2023–2024 **Faculty Advisor**, Environmental Studies Major, Utah State University
2022–Present **Review Editor**, *Frontiers in Environmental Archaeology*, Landscape and Geological Processes
2020–Present **Journal Peer Review**, *Remote Sensing*, *Scientific Reports*, *Digital Applications in Archaeology and Cultural Heritage*, *Frontiers in Environmental Archaeology* and *Environmental Archaeology*
2017–2023 **Fundraising Committee**, Society of American Archaeology (SAA)
2020–2021 **SAA Virtual Conference Task Force**, Society of American Archaeology (SAA)
2016–2017 **EEES Program Representative**, Graduate Student Council, Dartmouth College

PROFESSIONAL DEVELOPMENT ACTIVITIES

- 2024 **NSF CAREER Grant Training Workshop Series**, Sponsored by the USU Office of Research
2023–Present **Empowering Teaching Excellence (ETE) Program, Evidence-based Teaching Track**, Sponsored by the USU Office of the Provost & Chief Academic Officer
2023 **Tenure Academy**, Sponsored by the USU Office of the Provost & Chief Academic Officer
2023 **Seed Grant Program Workshop + New Faculty Training Workshop (Series)**, Sponsored by the USU Office of Research

TECHNICAL SKILLS

GIS, GEOSPATIAL IMAGING, AND STATISTICAL SOFTWARE

ESRI ArcGIS Pro, QGIS, ERDAS Imagine, Golden Software's Surfer, JMP Statistical Software
Python, R & RStudio, JavaScript & Google Earth Engine

UAV SYSTEMS, LIDAR AND PHOTOGRAMMETRIC SOFTWARE

DJI Matrice 600 + Velodine LiDAR system, DJI Phantom Series & Matrice 200 UAVs + thermal and multispectral sensors (FLIR thermal, Parrot Sequoia, Micasense RedEdge).

Software: UgCS Mission Planning, Pix4DCapture, Agisoft Metashape, CloudCompare

GEOPHYSICAL AND SURVEYING INSTRUMENTS

Bartington Grad 601-2 Magnetic Gradiometer System, GSSI SIR 4000 GPR, and GSSI Utility Scan GPR, Leica Total Stations, iG3 Static GNSS, EMLID Reach RTK GNSS/GPS Systems

Software: ArchaeoFusion, GPR-Slice, RADAN, ServeCE

MICRO-BOTANICAL AND GEOCHEMICAL SKILLSETS

Phytolith Analysis

Calcitic Ash and Dung Micro-remains

Fourier-Transform Infrared (FTIR) Spectroscopy

MEDIA COVERAGE

- 2023 Interview: “No Boundaries Book Club - Archaeologist and remote sensing specialist Dr. Elise Laugier” Lenovo EDU Community. <https://education.lenovo.com/us/explore/inspiring-stories/b/inspiring-stories/posts/no-boundaries-book-club---archaeologist-and-remote-sensing-specialist-dr-elise-laugier>
- 2022 Emily Everson Layden. Ancient Mesopotamian discovery transforms knowledge of early farming. *EurekAlert!* <https://www.eurekalert.org/news-releases/939842> (<https://beta.nsf.gov/news/ancient-discovery-reveals-new-knowledge-early>)
- 2022 Featured as a remote sensing specialist in the National Geographic children’s book *No Boundaries: 25 Women Explorers and Scientists Share Adventures, Inspiration, and Advice* by Claire Fieseler and Gabby Salazar <https://www.amazon.com/Boundaries-Explorers-Scientists-Adventures-Inspiration/dp/1426371764>
- 2020 Pregnant women whose exercise routines disrupted by COVID-19 show higher depression scores. *EurekAlert!*
- 2019 Mihaly, A., Archaeological dig at Baker-Berry unearths Hanover history. *The Dartmouth*. <https://www.thedartmouth.com/article/2019/07/baker-archaeological-dig-concludes>
- 2015 Lawler, A., War, More Than ISIS, Is Destroying Syria’s Ancient Sites. *National Geographic News*. <https://www.nationalgeographic.com/history/article/151125-isis-syria-satellite-images-looting-archaeology>

PROFESSIONAL MEMBERSHIPS

International Phytolith Society (IPS)
American Schools of Overseas Research (ASOR)
Society of American Archaeology (SAA)
Computer Applications and Quantitative Methods in Archaeology (CAA International)
European Association of Archaeologists (EAA)
Geologic Society of America (GSA) – Geoinformatics Division