

HANNAH M. HERRICK

<https://orcid.org/0000-0002-8938-4391>

EMAIL: hannah_herrick@sfu.ca

Department of Archaeology
Simon Fraser University
Education Building 9635
8888 University Dr.
Burnaby, BC V5A 1S6
Canada

EDUCATION

- 2018- Ph.D. Candidate, Archaeology, Simon Fraser University, Canada
Supervisor: Dr. Francesco Berna
- 2018 M.S., Geosciences, University of Arizona, USA
Thesis: *⁸⁵Sr/⁸⁶Sr Analysis as a Method to Explore Human Ecology and Forest Resilience in Ancient Meroe, Sudan.*
Supervisor: Dr. Charlotte Pearson
- 2016 B.S., Anthropology, University of Arizona, USA, *magna cum laude*
Thesis: *Past Beneath the Present: Osteological and Historical Perspectives on Burials at Mission San Xavier del Bac, Tucson, AZ.*

OTHER QUALIFICATIONS & PROFESSIONAL DEVELOPMENT

- 2020 International Teaching Assistants (ITA) Program, Simon Fraser University, Canada
- 2017 Graduate Certificate in Egyptian Archaeology, University of Arizona, USA
- 2017 4th International Training School in Quantitative Wood Anatomy Using ROXAS, Laboratory of Tree-Ring Research, University of Arizona, USA

RESEARCH INTERESTS

Environmental impact of ancient/historic technologies; the “Anthropocene”, accessible archaeology, geoarchaeology, petrography of archaeological objects, paleoenvironmental reconstruction, archaeology of ancient technology, production materials, micromorphology, niche construction, African archaeology, dendrochronology, anthropogenic charcoal analysis

PUBLICATIONS

- In press.* **Herrick, Hannah M.** and Francesco Berna. A Review of Methods to Analyze Archaeological Lime Production: Investigating Raw Materials and Firing Conditions. To be published in the *Journal of Archaeological Method and Theory*.
- 2020 **Herrick, Hannah M.** Dig Doodles: Teaching Archaeology through Accessible Illustration. In (ed. Durgun, P.) [The Educator's Handbook for Teaching About the Ancient World](#). ArchaeoPress.
- 2020 Pearl, J. K., Keck, J. R., Tintor, W., Siekacz, L., **Herrick, H. M.**, Meko, M. D., & Pearson, C. L.. [New frontiers in tree-ring research](#). *The Holocene*.
- 2019 **Hannah M. Herrick** and Christopher H. Baisan. [Dendrochronology at the Mission San Xavier del Bac convento \(Tucson, Arizona, USA\)](#). *Journal of Archaeological Science: Reports* 25 (2019), 40-46.
- 2017 Creasman, Pearce Paul, Hayat Touchane, Christopher H. Baisan, Hussein Bassir, Rebecca Caroli,

Noreen Doyle, **Hannah Herrick**, Magdi A. Koutkat, Ramzi Touchan. An Illustrated Glossary of Arabic-English Dendrochronology Terms and Names. *PalArch's Journal of Archaeology of Egypt/Egyptology* 14(3), 1-35. Open Access.

CONFERENCE PAPERS

- 2024 89th Meeting of the Society for American Archaeology (New Orleans, USA)
 "Community Resilience and Connection on the Middle Nile: The Es-Selim R4 Archaeology Project in Sudan." Elizabeth Minor, Sarah Schellinger, Christopher Sevara, **Hannah M. Herrick**, and Ahmed El-Hassan (Sokhari). Scheduled April 2024.
- 2023 European Association of Archaeologists 2023 Annual Meeting (Belfast, UK)
 "Stone to Surface: Experimental lime production and the analysis of Late Bronze Age plaster floors at Kalavassos-Ayios Dhimitrios, Cyprus." Sept. 2023.
- 2022 American Schools of Overseas Research (ASOR) 2022 Annual Meeting (Boston, USA)
 "Ancient Materiality (and Magic!) in Modern Plaster Copies". Nov. 2022.
- 2022 European Association of Archaeologists 2022 Annual Meeting (Budapest, Hungary)
 "Assessing the raw materials utilized in lime production: a case study of plasters and mortars from Kalavassos-Ayios Dhimitrios, Cyprus". **Hannah M. Herrick** and Francesco Berna. Scheduled 2 September 2022; *cancelled due to illness*.
- 2020 43rd International Symposium on Archaeometry (Lisbon, Portugal)
 "Assessing the raw materials utilized in lime production: a case study of plasters and mortars from Kalavassos-Ayios Dhimitrios, Cyprus". *Scheduled May 2020; cancelled due to COVID-19 pandemic*.
- 2020 American Schools of Oriental Research 2020 Annual Meeting (Boston, USA)
 "Assessing the raw materials utilized in lime production: a case study of plasters and mortars from Kalavassos-Ayios Dhimitrios, Cyprus". **Hannah M. Herrick** and Francesco Berna. Online; Nov. 2020.
- 2019 Developing International Geoarchaeology, Simon Fraser University (Burnaby, BC)
 "Best practices for analyzing archaeological lime plaster". June 2019.
- 2018 Frontiers in Archaeological Science 2, Simon Fraser University (Burnaby, BC)
 "Applying Sr Geoprovenance to Anthropogenic Charcoal: In Theory & Practice". Aug. 2018.
- 2018 GeoDaze 2018, University of Arizona Department of Geosciences (USA)
 "Applying Strontium Geoprovenance to Anthropogenic Charcoal". Apr. 2018.
- 2018 Entmoot 2018: Tree-Ring Research Symposium, University of Arizona Laboratory of Tree-Ring Research (USA)
 "Human ecology & tree resilience in the acacia stands of Meroe, Sudan". Apr. 2018
- 2017 Society for the Study of Egyptian Antiquities Colloquium (Toronto, ON)
 "Using Cultural Interconnections to Investigate Meroitic Iron Smelting". Nov. 2017.
- 2017 82nd Meeting of the Society for American Archaeology (Vancouver, BC)
 "Chronological Challenges in Conservation at Mission San Xavier". March 2017.
- 2017 EarthWeek 2017, Univ. Arizona School of Earth & Environmental Sciences (USA)
 "Building at Bac: Dendrochronology and Conservation at Mission San Xavier". March 2017.
- 2017 27th Annual University of Arizona Art History Graduate Symposium: *Magic and Mechanic: Exploring the Interior Mysteries of Art and its Histories* (USA)
 "Metals and Magic in Ancient Nubia". Feb. 2017

PUBLIC LECTURES AND SEMINARS

- 2021 Harvard Art Museums, Harvard University (Cambridge, MA, US)

- Invited panelist, "[Coloring German Expressionism](#)". Art Study Center Seminar at Home Series. Oct. 2021
- 2019 Department of Archaeology, Simon Fraser University (Burnaby, BC)
"Talkative Tree-Rings' at San Xavier Mission". Department Seminar Series. Oct. 2019.
- 2019 Port Coquitlam Heritage Museum and Archives (Port Coquitlam, BC)
"[Talkative Tree-Rings' at an Arizona Spanish Colonial Mission](#)". Apr. 2019.
- 2017 American Research Center in Egypt, Arizona Chapter (USA)
"Fantastic Trees & Where to Find Them: The Ancient Nubian Landscape & Fuel Procurement".
Oct 2017.

AWARDS

External

- 2018 Grad. Research Fellowship, National Science Foundation: \$130,000 USD, *declined*
- 2017 Research Support, University College London Qatar Research in Sudan: \$500 USD, for laboratory analysis of charcoal from Meroe, Sudan
- 2015 Byron Cummings Memorial Scholarship, Family of Byron Cummings: \$400 USD
- 2015 Stephen Bufton Memorial Education Fund Outright Grant, the American Business Women's Association: \$1,500 USD
- 2015 Alpha Chi Sigma Professional Chemistry Fraternity, Beta Tau Chapter
- 2014 Phi Kappa Phi National Honor Society

Internal, Simon Fraser University

- 2023 Canadian Pacific/Teck Resources Award for Environmental Innovation: \$5,000 CAD
- 2023 Graduate Fellowship, Dept. of Archaeology: \$7,000 CAD
- 2023 Honouree, 2022 Faculty of the Environment Excellence in Graduate Research and Engagement
- 2022 Graduate Fellowship, Dept. of Archaeology: \$7,000 CAD
- 2021 Alexia Sepideh Kiaii Archaeology Graduate Scholarship, \$1800 CAD for fieldwork
- 2021 Travel and Research Award, Dept. of Archaeology, \$1064.00 CAD for fieldwork
- 2020 Travel and Research Award, Dept. of Archaeology, \$261.00 CAD
- 2020 Simons Foundation Award, Faculty of the Environment: \$5,000 CAD
- 2020 Graduate Fellowship, Dept. of Archaeology: \$3,500 CAD
- 2020 People's Choice Winner for the Faculty of the Environment Three-Minute Thesis Competition, Faculty of Environment: \$150 CAD
- 2019 SFU Nominee for Vanier Canada Graduate Scholarship, Graduate Studies
- 2018 Graduate Dean's Entrance Scholarship, Dept. of Archaeology: \$84,000 CAD

Internal, University of Arizona

- 2017 GPSC Travel Grant, Graduate and Professional Student Council: \$408.02 USD
- 2014 Magellan Scholarship, College of Social and Behavioral Sciences: \$500 USD
- 2013 Magellan Scholarship, College of Social and Behavioral Sciences: \$500 USD

ARCHAEOLOGICAL ANALYSIS & FIELDWORK

- 2022- Wellesley College Hall Archaeological Project (WCHAP), Massachusetts, USA
Geoarchaeologist (Director: E. Minor)
- 2020- Es-Salim R4 Archaeological Project, Northern Dongola Reach, Sudan
Geoarchaeologist, Field Assistant, & illustrator (Directors: E. Minor, Wellesley College; and S. Schellinger, Ohio State University)
National Science Foundation (NSF) Award #: 2141732
- 2018- Geoarchaeology Lab, Simon Fraser University
Dissertation research (micromorphology, petrography, FTIR, microFTIR)

- 2018 Acacia sampling for geochemical analysis, Northern State, Sudan
M.S. thesis data collection
- 2018 Sanam Temple Project, Northern State, Sudan
Geoscientist & Field Assistant (Director: K. Howley, IFA New York)
- 2017 Mediterranean Dendroarchaeology Lab, University of Arizona
Graduate Researcher (Director: C. Pearson)
- 2017 Nomadic Archaeology of the Northern Rio Grande, New Mexico, USA
Surveyor and Photographer (Director: L. Montgomery, University of Arizona)
- 2017-2018 Rio Grande Gorge Project, New Mexico, USA
Field Assistant and Dendrochronologist (Directors: S. Fowles, Columbia University/Barnard College; D. Wilkinson, University of Cambridge; L. Montgomery, University of Arizona; B. Alberti, Framingham State University)
- 2017-2018 University College London Qatar Research in Sudan, Meroe, Sudan
Charcoal Analyst (Director: J. Humphris)
- 2016- 2019 Dendroarchaeology of the convento, Mission San Xavier, Tucson, AZ
Principal Investigator
- 2016 University of Arizona Egyptian Expedition, Luxor, Egypt
Study season (Director: P. P. Creasman, University of Arizona)

MUSEUM EXPERIENCE

- 2015 Arizona State Museum Bioarchaeology Laboratory, University of Arizona
Undergraduate thesis research (Director: Dr. James T. Watson)
- 2014 Arizona State Museum Bioarchaeology Collections, University of Arizona
Intern (Director: Dr. James T. Watson)
- 2012-2013 Arizona State Museum Archaeology Collections, University of Arizona
Volunteer (Supervisor: G. M. Jacobs)

TEACHING EXPERIENCE

Simon Fraser University: Graduate Teaching Assistantships/Tutor Markerships

- 2024 ARCH 471W: Archaeological Theory
- 2023 ARCH 252: Archaeology of Ancient Egypt and Africa
- 2023 ARCH 100 (online)
- 2023 ARCH 226: Shamans, Psychedelics, and Sacrifice (online)
- 2022 ARCH 390A: Archaeobotany
- 2021 ARCH 131: Human Origins (online)
- 2021 ARCH 471W: Archaeological Theory (online)
- 2020 ARCH 285Q: Archaeological Science (online)
- 2019 ARCH 131: Human Origins (Fall 2019)
- 2019 ARCH 131: Human Origins (Spring 2019, online)

University of Arizona: Graduate Teaching Assistantships

- 2018 GC 170: Introduction to Global Change
- 2017 CLAS 400/500: The Great Sites of Ancient Egypt
- 2017 ANTH 160A: Ancient Egyptian Civilization (Summer 2017, online)
- 2017 ANTH 160A: Ancient Egyptian Civilization (Spring 2017)
- 2016 CLAS 400/500: Ancient Egyptian Religion, Gods, and Goddesses

University of Arizona: Undergraduate Teaching Proctorships

- 2014 ANTH 340A: Ancient Greek Archaeology

Guest Class Lectures

- 2022 ARCH 390A: Archaeobotany
"Tree-Ring Science and Dendrochronology". Feb. 2022
- 2020 ARCH 285: Archaeological Science
"Plasters, Mortars, and Cements." Nov. 2020
"Pigments Analysis". Nov. 2020
"Tree-Ring Science and Dendrochronology". Oct. 2020
- 2018 GC 170A: Introduction to Global Change
"Paleoclimate Records and Ancient Civilizations." Apr. 2018.
- 2017 CLAS 596A: Graduate Seminar in Technology, Labor, and Society in Ancient Greece
"Timber and Fuel in the Ancient Mediterranean and North Africa." Apr. 2017.
- 2017 ANTH 160A: Ancient Egyptian Civilization
"Nubia: Egypt's Neighbors to the South." Apr. 2017.
"Temples: Houses of the Gods." March 2017.
- 2016 CLAS 400/500: Ancient Egyptian Gods, Goddesses, & Religion
"Foreign Gods in Egypt." Nov. 2016.

PUBLIC OUTREACH

Commissioned Work for Educational Materials

- 2022 *Ein Spaziergang durch Mesopotamien mit Muschchuschu/A Walk through Mesopotamia with Mushusshu*, for the Vorderasiatisches Museum (Berlin, Germany)
Co-Creator and Illustrator for a free childrens' activity book to complement the museum's recorded audioguide of VAM's Near Eastern Archaeology galleries. In German and English.
- 2021 [Coloring German Expressionism](#), for Harvard Art Museums (MA, United States)
Illustrator of a free-to-download colouring book for adults featuring artworks from HAM's German Expressionism collections.
- 2020 Cover art, [The Educator's Handbook for Teaching About the Ancient World](#) (see "Publications")
Design & Illustration of book cover image. Digital illustration was used to re-imagine ancient stone reliefs from a number of cultures to reflect modern teaching of archaeology.
- 2020 *Dendrochronology: Exploring tree-rings through art*, for the Laboratory of Tree-Ring Research, University of Arizona (AZ, United States)
Co-Creator and Illustrator of a free-to-download colouring and activity book featuring activities and information about dendrochronology. In final preparation by the lab.
- 2020 [Coloring Ancient Egypt](#), for Harvard Art Museums (MA, United States)
Co-Creator and Illustrator of a free-to-download colouring and activity book featuring objects from the HAM's Ancient Egyptian collections.

Public Outreach Programs Participation

- 2020 [Save Ancient Studies in America \(SASA\)](#)
Mentor to Undergraduate Summer Intern in Design
- 2020- [Dig Doodles](#), Illustrated Education of Archaeology & the Ancient World
Co-Founder and Illustrator
- 2019-2020 [Skype a Scientist Program](#)
Scientist

SERVICE TO THE PROFESSION

- 2017-2018 EarthWeek 2018 Planning Committee, University of Arizona
Laboratory of Tree-Ring Research Representative
- 2015-2018 American Research Center in Egypt, Tucson, AZ Chapter
2017-2018 Chapter President

2016-2017 Chapter Treasurer

WORK EXPERIENCE

- 2022- Connally McDougall Designs, Vancouver, BC
Historical and scientific consultant: providing information on the cultural origins and scientific underpinnings of pigments, dyes, apparel fabrics, and craft technology for a local inclusive and sustainable designer clothing label
- 2020 Freelance Illustrator for Film & TV, Vancouver, BC
Illustrated graphics for character costume for Nickelodeon's *Are You Afraid of the Dark?*
- 2020 Private Undergraduate Tutor, Burnaby, BC
Tutoring undergraduate archaeology majors enrolled at SFU
- 2017 Laboratory of Tree-Ring Research, University of Arizona
Graduate assistant: website design
- 2016 CERCLL (Center for Educational Resources in Culture, Language, and Literacy), University of Arizona
Graduate assistant: graphic design, conference support
- 2014-2016 CERCLL (Center for Educational Resources in Culture, Language, and Literacy), University of Arizona
Office assistant: graphic design, conference organization support
- 2013-2016 SLAT (Second Language Acquisition & Teaching) Grad. Interdisciplinary Program, Univ. of Arizona
Office assistant: administrative support, graphic design

LANGUAGE COMPETENCY

- Russian Beginning reading and writing; elementary speaking
- French Intermediate reading; beginning speaking
- Sudanese Arabic Beginning speaking

TECHNICAL SKILLS

Canvas, D2L, Online course design, Public outreach design, Digital illustration, Children's illustration, Object photography, petrography