

RACHEL KALISHER, PHD

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ACADEMIC APPOINTMENTS

2024- **Visiting Clinical Assistant Professor, New York University**
Department of Anthropology

EDUCATION

2024 **Ph.D. Archaeology, Brown University**
Joukowsky Institute for Archaeology and the Ancient World
Dissertation: *A Bioarchaeological Study of Kinship at Bronze Age Megiddo*
Committee: Andrew Scherer (chair), Israel Finkelstein, Laurel Bestock, Candace Rice

2024 **Sc.M. Ecology, Evolution and Organismal Biology, Brown University**

2017 **M.A. Human Skeletal Biology (Anthropology), New York University**
Thesis: *Beyond Diet: Using Dental Wear to Explore Iron Age IIA Philistine Lifestyle*
Committee: Shara Bailey (chair), Timothy Bromage, Pam Crabtree

2015 **B.A. Anthropology; B.A. Classical Civilizations, University of Florida**
Summa cum laude, Phi Beta Kappa

PUBLICATIONS

Edited Books

In press Master, D.M., Aja, A., and **Kalisher, R.**, eds. *Ashkelon 10: The Philistine Cemetery*. Eisenbrauns. (Anticipated publication in 2025).

Peer-Reviewed Articles

In press **Kalisher, R.** The Bronze Age: The Mortuary Record of Area K. In *Near Eastern Archaeology*. To be released in June 2025.

2024 **Kalisher, R.**, Master, D.M., Bailey, S.E., and Bromage, T.G. "Dental wear in a marine economy: A case study from Philistine Ashkelon." *International Journal of Osteoarchaeology* 34 (1): e3269. doi: [10.1002/oa.3269](https://doi.org/10.1002/oa.3269) *Highlighted in an [editorial](#) in same issue*

2024 Kleiman, A., Hall, E., **Kalisher, R.**, Dunseth, Z.C., Sapir-Hen, L., Homsher, R.S., Adams, M.J. and Finkelstein, I. "Crisis in motion: The final days of Iron Age I Megiddo." *Levant* 56: 66-93. doi: [10.1080/00758914.2023.2230039](https://doi.org/10.1080/00758914.2023.2230039)

2023 Amir, A., **Kalisher, R.**, Cradic, M.S.C., Martin, M.A.S., Neumann, R., Gadot, Y., Finkelstein, I. "Burial offerings in intramural tombs at Middle Bronze Age Megiddo." *Archaeometry* 65(6): 1353-1373. doi: [10.1111/arcm.12877](https://doi.org/10.1111/arcm.12877).

2023 **Kalisher, R.**, Cradic, M.S., Martin, M.A.S., Adams, M.J., Finkelstein, I. "Cranial trephination and infectious disease in the Eastern Mediterranean: The evidence from two elite brothers from Late Bronze Megiddo, Israel." *PLOS One* 18(2): e0281020. doi: [10.1371/journal.pone.0281020](https://doi.org/10.1371/journal.pone.0281020).

2023 Cerrito, P., Hu, B., **Kalisher, R.**, Bailey, S.E., Bromage, T.G. "Life history in primate teeth is revealed by changes in major and minor element concentrations measured via field-emission SEM-EDS analysis." *Biology Letters* 19: 2022043. doi: [10.1098/rsbl.2022.0438](https://doi.org/10.1098/rsbl.2022.0438)

- 2022 Cerrito, P., Hu, B., Goldstein, J., **Kalisher, R.**, Bailey, S. E., Bromage, T.G. “Elemental composition of primary lamellar bone differs between parous and nulliparous rhesus macaque females.” *PLOS One* 17(11): e0276866. doi: [10.1371/journal.pone.0276866](https://doi.org/10.1371/journal.pone.0276866)
- 2021 Cerrito, P., Cerrito, L., Hu, B., Bailey, S.E., **Kalisher, R.**, Bromage, T. “Weaning, parturitions and illness are recorded in Rhesus Macaque (*M. mulatta*) dental cementum microstructure.” *American Journal of Primatology* e23235. doi: [10.1002/ajp.23235](https://doi.org/10.1002/ajp.23235)
- 2020 Agranat-Tamir, L., Waldman, S., Martin, M.A.S., Gokhman, D., Mishol, N., Eshel, T., Cheronet, O., Rohland, N., Mallick, S., Adamski, N., Lawson, A.M., Mah, M., Gamarra, B., Tzur, S., Novak, M., **Kalisher, R.**, Bechar, S., Eshed, V., Kennett, D.J., Faerman, M., Yahalom-Mack, N., Monge, J.M., Govrin, Y., Erel, Y., Yakir, B., Pinhasi, R., Carmi, S., Finkelstein, I., Carmel, L., Reich, D. “The genomic history of the Bronze Age southern Levant.” *Cell* 181 (5): 1146-1157. doi: [10.1016/j.cell.2020.04.024](https://doi.org/10.1016/j.cell.2020.04.024)
- In prep* **Kalisher, R.**, Eisenmann, S., Waldman, S., Martin, M.A.S., Mitnik, A., Cradic, M.S., Adams, M.J., Agranat-Tamir, L., Carmel, L., Stockhammer, P., Reich, D., Finkelstein, I. “Ancient DNA reveals complex kinship at Bronze Age Megiddo” (*working title*). For submission to *PNAS*.
- In prep* **Kalisher, R.** “Cranial trephinations as a form of medical intervention in the ancient Levant.” For submission to *Bioarchaeology International: Brief Communications*.
- In prep* **Kalisher, R.** “Disrupting the sex-gender feedback loop in bioarchaeology.” For submission to *Antiquity Debates*.

Book Chapters

- In press* **Kalisher, R.**, Fox, S.C., Marklein, K. and Faerman, M. “Osteological Results from the N5 Iron IIA Cemetery.” In Master, D.M., Aja, A., and Kalisher, R., eds. *Ashkelon 10: The Philistine Cemetery*. Eisenbrauns.
- In press* Master, D.M., Aja, A.J., and **Kalisher, R.** “The Philistine Cemetery at Ashkelon” In Master, D.M., Aja, A., and Kalisher, R., eds. *Ashkelon 10: The Philistine Cemetery*. Eisenbrauns.
- In press* Aja, A., **Kalisher, R.**, Pierce, G. “Catalogue of Burials.” In Master, D.M., Aja, A., and Kalisher, R., eds. *Ashkelon 10: The Philistine Cemetery*. Eisenbrauns.
- In press* **Kalisher, R.** “The Human Skeletal Remains from Horvat Tevet, 2018.” In Sergei, O., Covello-Paran, K., and Bezzel, H., eds. *Horvat Tevet: An Iron IIA Royal Estate in the Jezreel Valley* (Monograph Series). Tel Aviv: Institute of Archaeology.
- 2025 **Kalisher, R.** “The Human Skeletal Remains from Burial 16/H/45.” In: Adams, M.J., Cradic, M.S., and Finkelstein, I., eds., *Megiddo VII: The Shmunis Excavations of Tomb 16/H/50 and Burial 16/H/45* (Monograph Series of the Institute of Archaeology). Vol. I. Tel Aviv University Press, Eisenbrauns.
- 2025 **Kalisher, R.** “The Human Skeletal Remains from Tomb 50.” In: Adams, M.J., Cradic, M.S., and Finkelstein, I., eds., *Megiddo VII: The Shmunis Excavations of Tomb 16/H/50 and Burial 16/H/45* (Monograph Series of the Institute of Archaeology). Tel Aviv University Press, Eisenbrauns.
- 2022 Martin, M.A.S., Cradic, M.S., **Kalisher, R.** “Area K: Intramural Pit and Jar Burials.” In: Finkelstein, I., and Martin, M.A.S., eds., *Megiddo VI: The 2010-2014 Seasons* (Monograph Series of the Institute of Archaeology). Tel Aviv, pp. 224-292.
- 2022 Dunseth, Z.C. and **Kalisher, R.** “Spoilage.” In, *The Handbook to Food in the Hebrew Bible and Ancient Israel*. Eds. Fu, J., Shafer-Elliott, C., and Meyers, C. T & T Clark, pp. 267-294.
- In prep* **Kalisher, R.** and Adams, M.J. “Children from the Earliest MB Household at Megiddo.” In Finkelstein, I., Adams, M.J., and Kleiman, A., eds. *Megiddo VIII: The 2016-2022 Seasons* (Monograph Series of the Institute of Archaeology). Tel Aviv: Tel Aviv University Press.
- In prep* **Kalisher, R.**, Dunseth, Z.C., and Martin, M.A.S. “The Complete Bioarchaeological Record from the Residential Burials in Area K (Levels K-10 to K-13).” In Finkelstein, I., Adams, M.J.,

and Kleiman, A., eds. *Megiddo VIII: The 2016-2022 Seasons* (Monograph Series of the Institute of Archaeology). Tel Aviv: Tel Aviv University Press.

In prep **Kalisher, R.** "The Human Skeletal Remains from Areas S and Q, With a Note on the Isolated Skeletal Remains Across Megiddo." In Finkelstein, I., Adams, M.J., and Kleiman, A., eds. *Megiddo VIII: The 2016-2022 Seasons* (Monograph Series of the Institute of Archaeology). Tel Aviv: Tel Aviv University Press.

ACTIVE PROJECTS

- 2024- **Tel Hadidi Legacy Project** (*working title*)
Bioarchaeological project on the legacy data from 1970s Tel Hadidi excavations (Syria)
Collaboration with Susan Antón.
- 2017- **Tel Shimron Excavations**
Area supervisor and chief bioarchaeologist at Tel Shimron (Israel)
Excavation directors: Daniel Master, Mario A. S. Martin
Website: <https://www.telshimronexcavations.com/>
- 2014- **The Megiddo Expedition**
Chief bioarchaeologist (2016-) at Tel Megiddo (Israel)
Excavation directors: Israel Finkelstein, Mario A. S. Martin, Matthew J. Adams
Website: <https://megiddoexpedition.wordpress.com/>

PREVIOUS FIELD and LAB PROJECTS

- 2023 **Circumpolar Laboratory at the Haffenreffer Museum** | Consulting biological anthropologist
Responsibilities: Identifying and removing human remains from collections excavated from Alaskan sites in the mid 20th century. Human remains repatriated under NAGPRA.
- 2022 **Palmachim** | Consulting and publishing biological anthropologist for a cave tomb.
Excavation directors: Assaf Yasur-Landau, Shirly Ben-Dor Evian. Scientific director: Israel Finkelstein
- 2018 **Horvat Tevet** | Consulting and publishing biological anthropologist for Iron Age cemetery.
Excavation director: Omer Sergel.
- 2016 **Histology and Correlative Microscopy Center, Dept. of Biomaterials and Biomimetics** | Intern
Worked with multiple methods of microscopy and dental casting to best understand the depth of biographical information that can be discerned from teeth. Located at NYU.
Supervising PI: Timothy Bromage
- 2015-17 **The Leon Levy Expedition to Ashkelon** | Chief bioarchaeologist
Excavation directors: Daniel Master, Lawrence Stager
Website: <http://digashkelon.com/>
- 2015 **C.A. Pound Human Identification Laboratory (Forensic) at the University of Florida** | Intern
Responsibilities included human maceration, assistance with radiographic analysis and reorganization project of the zooarchaeological remains.
Supervising PI: Michael Warren
- 2014-15 **Florida Museum of Natural History** | RTI analyst, Research assistant
Performed RTI on a collection of incised and stamped pottery from Florida and Southern Georgia.

- 2013 **Tel Kabri** | Team member
Excavation directors: Eric Cline, Assaf Yasur-Landau.
- 2012-13 **Florida Museum of Natural History** | Assistant to collections manager
Cleaned archaeological material from Florida sites, as well as organized museum collections.
Assisted in curation of museum exhibit of archaeological material from St. Augustine, FL.
- 2012 **Southeast Archaeological Laboratory, University of Florida** | Intern
- 2012 **St. John's Archaeological Field School, Ocala, FL** | Team member

TEACHING

Classroom Instruction

- 2024- **New York University: Visiting Clinical Assistant Professor**
ANTH-UA 327: Introduction to Bioarchaeology (Fall '24)
ANTH-GA 1520/2: Interpreting the Skeleton Lecture & Laboratory (Fall '24)
ANTH-UA 326: Introduction to Forensic Anthropology (Spring '25)
ANTH-GA 1516/21: Human Osteology & Odontology Lecture & Laboratory (Spring '25)
- 2023 **Brown University: Instructor of Record**
ANTH 1720: The Human Skeleton (Spring), 19 enrolled students
- 2018-2022 **Brown University: Teaching Assistant**
ARCH 0100/ANTH 0500: Anthropological Archaeology (Fall '22)
ANTH 0310: Human Evolution (Spring '21)
ARCH 0730: The Secrets of Ancient Bones (Ancient DNA in Archaeology) (Fall '18)
- 2017 **Brooklyn College, CUNY: Instructor of Record (Adjunct Lecturer)**
CORC3307: Forensic Science (Spring), 43 enrolled students.

Invited Talks

- 2024 "A Bioarchaeological Approach to House Kinship at Ancient Megiddo" *Archaeology Lecture Series*, Boston University (Feb. 21).
- 2022 "Disease in Antiquity" *Archaeological Method and Theory*, Reed University (Nov. 16).
- 2021-2022 "Human Osteology and Paleopathology" *Pandemics, Pathogens, and Plagues in the Greek and Roman Worlds*, Brown University (2x) (Sep. 17, Feb. 3).
- 2021 "Bioarchaeology" for course, *World Archaeology*, California Institute of Technology (April 20).
- 2020 "STEM in the Humanities: Interdisciplinarity as a Research Strength" *Communicating the Sciences*, University of Rhode Island (Feb. 12).
- 2019 "Human Osteology in Archaeology" *Biological Anthropology Methods*, California State University Long Beach (Nov. 25).
- 2019, 2022 "Introduction to Bioarchaeology" *Field Archaeology in the Ancient World*, Brown University (Oct. 30, Nov. 7)

Field Workshops

- 2017-2023 **Bioarchaeology Workshop**
Annual series of brief, 50-minute sessions where students engage with osteological methods using archaeological faunal and human bone. Includes primers on age and sex estimation, osteometrics, taphonomy and pathology. This workshop is held as part of the Tel Shimron seminar day series.

CONFERENCE PARTICIPATION

Papers Presented

- Accepted* **Kalisher, R.**, Eisenmann, S., Waldman, S., Mitnik, A., Martin, M.A.S., Agranat-Tamir, L., Carmel, L., Cradic, M.S., Adams, M.J., Stockhammer, P.W., Reich, D., Finkelstein, I. "Kinship at Bronze Age Megiddo: The bioarchaeological and genetic perspectives." Annual meeting of the American Schools of Overseas Research (ASOR), Boston, MA. 2024.
- 2023 Eisenmann, S., **Kalisher, R.**, Waldman, S., Mitnik, A., Martin, M.A.S., Cradic, M.S., Adams, M.J., Agranat-Tamir, L., Reich, D., Stockhammer, P., Finkelstein, I. "Kinning in Death at Middle to Late Bronze Age Megiddo." Annual meeting of the European Association of Archaeologists (EAA), Belfast, Ireland (Aug. 29).
- 2022 Cerrito, P., Hu, B., **Kalisher, R.**, Bailey, S.E., Bromage, T.G. "Histological and elemental markers in teeth help reconstruct decedent-specific lived experiences," Annual meeting of the American Academy of Forensic Science (AAFS), Seattle, WA (Feb. 21-25).
- 2019 **Kalisher, R.** "Power and Pathology: Osteological Results from an Elite MB III Chamber Tomb at Tel Megiddo." ASOR, San Diego, CA (Nov. 20-23)
- 2019 **Kalisher, R.** "Building a Better Bioarchaeology: Using a Case Study from Tel Shimron, Israel, to Challenge the Production and Value of Bioarchaeological Field Knowledge." Theoretical Archaeology Group (TAG), Syracuse, NY (May 2-4)
- 2018 **Kalisher, R.** "Perspectives on Ancient Disability and Healthcare: Examination of a Trephination from Late Bronze Age I (c. 1550-1400 BCE) Megiddo, Israel." ASOR, Denver, CO (Nov. 14-17)
- 2017 Fu, J., Fox, S., **Kalisher, R.**, Marklein, K., and Aja, A. "The Philistine Cemetery at Ashkelon: Funerary Remains and Mortuary Practice." Society for American Archaeology (SAA), Vancouver, BC, Canada (March 29-April 2)
- 2016 Fox, S., Marklein, K., and **Kalisher, R.** "The Contextual Study of the Human Skeletal Remains from the Philistine Cemetery at Ashkelon." ASOR, San Antonio, TX (Nov. 16-19)
- 2016 **Kalisher, R.**, and Dudas, M. "The reliability of sexing the pelvis by factoring in age: A pilot study." Bioarchaeologists' Northeast Regional Dialogue (BNRD), Oneonta, NY (Oct. 29)

Posters Presented

- Submitted* Goldstein, J.Z., **Kalisher, R.**, Hu, B., Bromage, T., Juwayeyi, Y.M., Cerrito, P. "Histological and elemental correlates of life history events in human and macaque femoral bone." American Association of Biological Anthropologists (AABA) Annual Meeting, Baltimore, MD.
- 2022 **Kalisher, R.**, Goldstein, J.Z., Cerrito, P., Swartz, S., Bromage, T.G. "Life Histories in Histology: Exploratory Research in Three Bone Tissues." *Frontiers in Archaeological Sciences* 3: Rethinking the Paradigm, Cornell University, NY (Oct. 7-9).
- 2017 Fox, S., Marklein, K., **Kalisher, R.**, Faerman, M., and Smith, P. "Symphalangism Among the Philistines at Ashkelon, Israel," Paleopathology Association (PPA), New Orleans, LA (April 18-19).
- 2017 Fox, S.C., Marklein, K., **Kalisher, R.**, Faerman, M., Smith, P., Master, D., Aja, A. "As Tall as Goliath? Stature Among the Philistines at Ashkelon," American Association of Biological Anthropologists (AABA) Annual Meeting, New Orleans, LA (April 19-22).
- 2017 Marklein, K., Fox, S., and **Kalisher, R.** "Down in the mouth: Distributions of dental and oral conditions in human skeletal remains from Philistine period Ashkelon, Israel," PPA, New Orleans, LA (April 18-19).
- 2017 **Kalisher, R.** "Differentiating dental wear patterns: A dental microwear study on the Philistine population from Ashkelon," American Association of Biological Anthropologists (AABA) Annual Meeting, New Orleans, LA (April 19-22).

ORGANIZED CONFERENCES and GROUPS

2023-24	From the Cradle to the Grave: The Life Course Approach in Archaeology. Co-organizer. Brown University (April 5-6, 2024). Conference website.
2023-24	Bioarchaeology Reading Group. Founder. Funded through Brown's Program in Early Cultures.
2019-20	State of the Field 2020: Archaeology in the Levant. Organizing committee member. Brown University (March 13-14, 2020) (Cancelled due to COVID-19). Conference website.
2019-19	State of the Field 2019: The Ancient DNA Revolution in Archaeology. Organizing committee member. Brown University (February 22-23, 2019). Conference website.

FELLOWSHIPS and GRANTS

Total:

\$29,814

2024	Provost's Student Activities Grant, New York University	\$500
2023	Bioarchaeology Reading Group & Speaker Series, Program in Early Cultures at Brown University	\$2,000
2020	Society for Classical Studies (SCS)/Women's Classical Caucus Award	\$500
2019	Brown University Graduate School Conference Travel Award	\$650
2019, 22	Graduate Student Council (GSC) Conference Travel Award (\$200 x2)	\$400
2019	Joukowsky Summer Research Travel Award	\$850
2018	Brown University Graduate Student Conference Travel Grant	\$650
2018	Program in Early Cultures Research Grant, Brown University	\$400
2018	Brown University Judaic Studies Summer Travel Grant	\$1,500
2018, 19, 22	Brown University Graduate International Travel Grant (\$1600 x3)	\$4,800
2016	NYU GSAS Dean's Student Travel Grant Program	\$500
2016	P.E. MacAllister Excavation Fellowship (ASOR)	\$2,000
2015	Eight-Point Tuition Scholarship, New York University	\$12,864
2014	University Scholarship, University of Florida	\$1,200
2014	Biblical Archaeology Scholarship, Biblical Archaeology Society	\$1,000

HONORS and AWARDS

2023	Selected finalist for " Research Matters ", Brown University
2022	Nominee for "Research Matters", Brown University
2021-22	Professor R. Bruce Lindsay Endowed Graduate Fellowship, Brown University
2017-18	Mary L.S. Downes Endowed Graduate Fellowship, Brown University
2015	Phi Beta Kappa

REVIEWER

2022	Excavation Fellowship Reviewer , Biblical Archaeology Society
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Academic Peer Reviewer

2024-	<i>Bioarchaeology of the Near East</i>
2024-	<i>Antiquity</i>
2023-	<i>International Journal of Osteoarchaeology</i> (x2)
2020-	<i>Bodies and Lives</i> (Manuscript series, Routledge)

EDITING EXPERIENCE

2020-24 **Research Assistant and Manuscript Editor**, for *In the Beginning was the State: Divine Violence in the Hebrew Bible* (2022), by Adi M. Ophir (Professor Emeritus, Tel-Aviv University). Published by Fordham Press.

MENTORSHIP

2024- **Academic Advisor**, New York University
Current undergraduate advisee(s): Cass Jones
Current graduate advisee(s): Maya Ervin

2017-24 **Graduate Student Mentor**, Brown University
Mentored and oversaw the research trajectories of Brown undergraduates, including serving as a reader on a thesis on skeletal remains from Megiddo (Olivia Golubowski) and overseeing a senior capstone paper on burial contexts from Islamic period Shimron (Eden Sherrod). In summer 2023, I recruited three of my students to Shimron, where they built skillsets in excavating, processing, and identifying fragmented ancient human remains. That summer I also trained a recent NYU human Skeletal Biology MS graduate in field bioarchaeology.

2016 **“Women in Science” Student Mentor**, New York University

OUTREACH and ACADEMIC CITIZENSHIP

2024 **College Day at Brown**, Brown University
Program where local Providence high-school students visit Brown and learn about possible career paths in a series of presentations. Gave lecture and workshop on archaeology to 24 students. (April 24)

2023 **Invited Classroom Talk**, Rye County Day School (Rye, NY),
Invitation (with honorarium) to speak to 5th grade history classes about bioarchaeology.

2023 **Research Matters Symposium**, Brown University, finalist
Nominated and competitive, short, five-minute flash talks about graduate research and why it has relevance to the broader community.

2022 [Applying to Graduate School Webinar](#), Invited moderator
Hosted by the Joukowsky Institute for Archaeology and the Ancient World

2022 [RadioCIAMS Podcast](#), Invited panelist
Hosted by Cornell Institute of Archaeology & Material Studies

2021-22 **Task Force on Doctoral Education**, Brown University
Task force composed of 16 faculty and 3 graduate students. Led by co-deputy dean of the Graduate School. Charged with developing recommendations for promoting outstanding, innovative graduate education that supports the University’s excellence in research and teaching while also preparing graduates for desired career outcomes.

2021 **Brown University Title IX Coordinator Search**, Invited committee member
On a committee of six, including interim Title IX Coordinator, reviewing and interviewing candidates for position of Title IX Coordinator. Search led by the Office of Institutional Equity and Diversity.

2019-22 **Brown University Title IX Council**, Graduate Student Council (GSC) Representative

- Received yearly trainings to participate in hearings. The hearing committee is responsible for reviewing all confidential case materials, including investigatory findings, determining responsibility of the Respondent, and determining sanctions.
- 2019 **“Think Like an Archaeologist”**
Program coordinated by Brown University, the Rhode Island School of Design (RISD) Museum and the Providence Public School system. Programming includes archaeologists entering 6th grade classrooms at two local Title I schools. There we teach five sessions introducing archaeology- from practice to interpretation.
- 2018- **TrowelBlazers@Brown**, Organizing member
Group composed of women and queer-identifying archaeologists to come together and discuss personal and professional components of our work.
- 2016 **AAPA Annual Meeting**, Student volunteer

MEDIA and PRESS

- 2024 Interviewed for [Thrillist article](#) “What to catacombs really smell like?” (Serena Tara, Oct. 28)
- 2024 Interviewed in documentary feature film, “The Invention of Surgery” produced by Autentic. Shot on location at Tel Aviv University. Currently streaming on [Amazon Prime Video](#).
- 2023 News coverage of Kalisher et al. 2023 was published in [497 news stories from 435 news outlets](#), and comments were given for:
- 1) [NPR All Things Considered](#) “Clues to Bronze Age cranial surgery revealed in ancient bones” (Ari Daniel, Feb 22.)
 - 2) [CNN](#) “An elite Bronze Age man had brain surgery more than 3,000 years ago” (Ashley Strickland, Feb. 22.)
 - 3) [Smithsonian](#) “This Man Underwent Brain Surgery 3,500 Years Ago” (Brian Handwerk)
 - 4) [Live Science](#) “3,400 years ago, ‘brain surgery’ left man with square hole in his skull, ancient bones suggest” (Tom Metcalfe, Feb. 22)
 - 5) [Newsweek](#) “Grave of Elite Bronze Age Brothers With Mystery Disease Discovered” (Pandora Dewan, Feb. 22)
 - 6) [Gizmodo](#) “Bronze Age Brain Surgery: 3,500-Year-Old Skull Found With Square-Inch Hole” (Isaac Schultz, Feb 22.)
 - 7) [The Times of Israel](#), “Square hole in an ancient skull: Middle East’s earliest brain surgery found in Israel.” (Melanie Lidman, Feb. 24).
 - 8) [Les Années Lumière, Radio-Canada episode](#) (French). (Alexandre Touchette, Aired Feb. 26.)
- 2020 Sauter, M. “Illuminating the Philistines’ Origins.” *Biblical Archaeology Society* (August 11). <https://www.biblicalarchaeology.org/daily/people-cultures-in-the-bible/illuminating-the-philistines-origins/>
- 2018 David, A. “Canaanites performed primitive brain surgery 3,500 years ago in Northern Israel.” *Haaretz* (November 29). <https://www.haaretz.com/archaeology/.premium.MAGAZINE-primitive-brain-surgery-3-500-years-ago-discovered-in-northern-israel-1.6699993>
- 2018 Lawler, A. “In biblical city of Armageddon, signs of early vanilla and elaborate medical care.” *Science Magazine* 362 (6418): 980-981
https://www.sciencemag.org/news/2018/11/biblical-city-armageddon-signs-early-vanilla-and-elaborate-medical-care?fbclid=IwAR2ZbEEXwUJ2ZLZLeLQ1H_WYTlpaaTKK09Ki79MZQEOWfoekRnIblyPnh0

- 2018 Bohström, P. “Exclusive: Royal Burial in Ancient Canaan May Shed New Light on Biblical City.” *National Geographic* (March 13).
<https://news.nationalgeographic.com/2018/03/megiddo-armageddon-dna-royal-burial-canaan-archaeology/>
- 2016 “New Dig Shows the Philistines Weren’t Such Philistines.” *Smithsonian Magazine* (July 12).
<https://www.smithsonianmag.com/smart-news/philistines-werent-such-philistines-new-dig-shows-180959757/>

RELEVANT SKILLS

Bone fragment identification | Gross anatomy dissection | Soft tissue maceration | ImageJ Analysis | Impressions and casting | Thin-section preparation | Microscopy (Optical and SEM) | Sputter Coating | Reflectance Transformation Imaging (RTI) | English writing editing

LANGUAGE TRAINING

English (native) | Spanish (reading proficiency, elementary speaking) | Modern Hebrew (reading proficiency, elementary speaking) | Biblical Hebrew (reading proficiency)

GROUP AFFILIATIONS

American Association of Biological Anthropologists (AABA) | American Schools for Overseas Research (ASOR) | Phi Beta Kappa