

# Curriculum Vitae

## Daniel Fuks

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Homepage: <https://www.arch.cam.ac.uk/staff/dr-daniel-fuks>

Project page: <https://www.arch.cam.ac.uk/research/projects/current-projects/flowering-desert-first-millennium-ce-agricultural-developments>

## Education/Institutional Affiliation

2021–present: **Newton International Fellow**, McDonald Inst. Archaeol. Research, U. Cambridge  
2020–2021: **Visiting Scholar**, McDonald Institute for Archaeological Research, U. Cambridge  
2015–2020: **PhD**, Land of Israel Studies & Archaeology, Bar-Ilan University  
2010–2014: **MA**, Land of Israel Studies & Archaeology, *Summa cum Laude*, Bar-Ilan University  
2002–2006: **BSc**, Economics & **BA**, Music, *Summa cum Laude*, University of Pittsburgh

## University teaching, supervising, and mentoring

2021–2022: **External lecturer**, *Introduction to Archaeobotany*, Ben-Gurion University of the Negev  
2020: **External lecturer**, *Introduction to Archaeobotany*, University of Haifa  
2018: **Mentor**, Advanced Laboratory internship in archaeobotany, Bar-Ilan University  
2016: **Teaching Assistant**, *Introduction to Archaeobotany*, Bar-Ilan University

## Academic Prizes and Awards

### *Fellowships and scholarships*

2021(awarded): Marie S. Curie International Fellowship  
2020–2022: British Academy Newton International Fellowship  
2020–2021: Rothschild Fellowship for Postdoctoral Research  
2017–2020: Israel Council for Higher Education Rottenstreich Fellowship  
2015–2019: Bar-Ilan University Doctoral Fellowships of Excellence  
2011–2014: Volcani Institute for Agricultural Research stipend  
2011–2013: Heseg Fund scholarship  
2002–2006: University of Pittsburgh Chancellor's Scholarship

### *Grants and honours*

2021: St John's College Research Associate (University of Cambridge)  
2021: McDonald Institute Workshops Grant  
2020: Mediterranean Seminar Article of the Month award  
2016–2017: Molcho Fund award for agricultural research in the Negev  
2013: Bar-Ilan University Rector's Award for academic excellence  
2005: Phi Beta Kappa Award for excellence in a variety of academic subjects

## Publications

### *In press*

Fuks, D., Avni, G. and Bar-Oz, G. In press. The debate on Negev viticulture and Gaza wine in Late Antiquity. *Tel-Aviv*, 48(2). <https://doi.org/10.1080/03344355.2021.1968626>

Fuks, D., Bar-Oz, G., Tepper, Y., and Weiss, E. In press. Flowers and faeces: Seasonal signals from Shivta's Early Islamic rubbish middens. In A. Lichtenberger and R. Raja (eds), *Seasonality in archaeology*. Brepols Studies in Classical Archaeology series.

Bar-Oz, G., Galili, R., Fuks, D., Erickson-Gini, T., Tepper, Y., Shamir, N. and Avni, G. In press. Caravan trash mounds in the desert: A novel approach to exploring the Nabatean Negev trade network. *Antiquity*.

Spengler, R.N., III, Zhou, X., Stark, S., Fuks, D., Tang, Li, Mir-Makhamad, B., Bjørn, R., Jiang, H., Olivieri, L.M., Begmatov, A., and Boivin, N. In press. Rice: A journey to the West. *Rice*.

#### Published

Fuks, D. and Marom, N. 2021. Sheep and wheat domestication in southwest Asia: a metatrajectory of intensification and loss. *Animal Frontiers*, 11(3): 20–29. <https://doi.org/10.1093/af/vfab010>

Fuks, D. 2021. Review of *The Quality of the Archaeological Record* by Charles Perreault, 2019, University of Chicago Press. *Archaeological Review from Cambridge*, 36(1).

Fuks, D. and Dunseth, Z. 2021. Dung in the dumps: what we can learn from multi-proxy archaeobotanical study of herbivore dung pellets. *Vegetation History and Archaeobotany*, 30, 137–153. <https://doi.org/10.1007/s00334-020-00806-x>

Fuks, D., Bar-Oz, G., Tepper, Y., Erickson-Gini, T., Langgut, D., Weissbrod, L. and Weiss, E. 2020. The rise and fall of viticulture in the Late Antique Negev Highlands reconstructed from archaeobotanical and ceramic data. *Proceedings of the National Academy of Sciences, USA*, 117 (33): 19780–19791. <https://doi.org/10.1073/pnas.1922200117>.

Fuks, D., Amichay, O. and Weiss, E. 2020. Innovation or preservation? Abbasid aubergines, archaeobotany and the Islamic Green Revolution. *Archaeological and Anthropological Sciences*, 12(50). <https://doi.org/10.1007/s12520-019-00959-5>.

Dunseth, Z.<sup>†</sup>, Fuks, D.<sup>†</sup>, Langgut, D., Weiss, E., Butler, D., Yan, X., Boaretto, E., Tepper, Y., Bar-Oz, G., and Shahack-Gross, R. 2019. Archaeobotanical proxies and archaeological interpretation: a comparative study of phytoliths, seeds and pollen in dung pellets and refuse deposits at Early Islamic Shivta, Negev, Israel. *Quaternary Science Reviews*, 211: 166–185. <http://doi.org/10.1016/j.quascirev.2019.03.010>.

<sup>†</sup>Equal contribution

Bar-Oz, G., Weissbrod, L., Erickson-Gini, T., Tepper, Y., Malkinson, D., Benzaquen, M., Langgut, D., Dunseth, Z., Butler, D., Shahack-Gross, R., Roskin, Y., Fuks, D., Weiss, E., Marom, N., Ktalav, I., Blevis, R., Zohar, I., Farhi, Y., Filatova, A., Gorin-Rosen, Y., Yan, X. and Boaretto, E. 2019. Ancient trash mounds unravel urban collapse a century before the end of Byzantine hegemony in the southern Levant. *Proceedings of the National Academy of Sciences, USA*, 116(17): 8239–8248. <http://doi.org/10.1073/pnas.1900233116>.

Amichay, O., Ben-Ami, D., Tchekhanovets, Y., Shahack-Gross, R., Fuks, D. and Weiss, E. 2019. A bazaar assemblage: reconstructing consumption, production and trade from mineralised seeds in Abbasid Jerusalem. *Antiquity* 93 (367): 199–217. <http://doi.org/10.15184/aqy.2018.180>.

Fuks, D. and Marom, N. 2018. The plants and animals of the Land of Israel. In Greer, J., Hilber, J. and Walton, J. (eds.), *Behind the scenes of the Old Testament: Historical, cultural, and social contexts of Ancient Israel*, pp. 28–36. Grand Rapids, MI: Baker Academic.

Fuks, D., Ackermann, O., Ayalon, A., Bar-Matthews, M., Bar-Oz, G., Levi, Y., Maeir, A.M., Weiss, E., Zilberman, T. and Safrai, Z. 2017. Dust clouds, climate change and coins: consilience of palaeoclimate and economy in the Late Antique southern Levant. *Levant* 49 (2): 205–223. <https://doi.org/10.1080/00758914.2017.1379181>.

Fuks, D., Weiss, E., Tepper, Y. and Bar-Oz, G. 2016. Seeds of collapse? Reconstructing the ancient agricultural economy at Shivta in the Negev, *Antiquity* 90(353). <https://doi.org/10.15184/aqy.2016.167>.

#### Peer-review activity

I have reviewed for the journals *Vegetation History and Archaeobotany*, *Holocene*, *Archaeological and Anthropological Sciences*, and *Michmanim*. I am currently reviewing a monograph manuscript for University of California Press.

## **Presentations**

### Conference organisation

- Ongoing: *First millennium CE crop diffusion in the Middle East and Mediterranean*. Workshop to be held at the University of Cambridge, McDonald Institute for Archaeological Research, May 23–27, 2022.
- 2018: *Jerusalem: Holiness, History and Current Affairs*. Conference organiser and session leader. Conference of the Land of Israel Studies and Archaeology department with the Institute for Advanced Torah Studies, Bar-Ilan University, Ramat-Gan, Israel, Nov. 8, 2018.

### Academic conference presentations

- 2021: “First-millennium CE plant and animal exchange via archaeobotany in collaboration with other disciplines: A multi-scalar view from the Negev Highlands”. Lecture to be delivered at the European Archaeology Association (EAA) annual meeting held in Kiel, Germany, Sept. 6–11, 2021. (Accepted, session #511, ‘A Crossroads between the Continents’).
- 2021: “Tracking microregional economic trends through archaeobotany: Lessons from the Late Antique Negev Highlands”. Lecture to be delivered at the European Archaeology Association (EAA) annual meeting held in Kiel, Germany, Sept. 6–11, 2021. (Accepted, session #16, ‘Economic Archaeology and Quantitative Approaches’).
- 2021: (With Nimrod Marom) “A time to sow, a time to reap: Changing biological and economic rhythms in southwest Asian plant and animal domestication”. Session #21, ‘Domesticating Time: Temporal Changes in Animals and Plants during the Holocene’.
- 2021: “Plant domestication as globalization: A call for agricultural deep history”. Lecture delivered at the Agricultural History Society (AHS) annual meeting held online, June 1–5.
- 2019: “The rise and fall of Negev viticulture in the Negev Highlands during Late Antiquity: an economic reconstruction from archaeobotanical and ceramic data.” Lecture delivered at the Israel Economic History Association Congress, held at Bar-Ilan University, Israel, Dec. 15, 2019. <https://www.youtube.com/watch?v=Kq7IOYza0rM>
- 2019: “The rise and fall of Negev viticulture.” Lecture delivered at the Israel Archaeology Congress, held at the University of Haifa, Israel, April 11, 2019.
- 2019: “Dung in the dumps: a comparative study of seeds, phytoliths and pollen in dung pellets and refuse deposits at Early Islamic Shivta, Negev, Israel.” Lecture delivered at the 18th Conference of the International Workgroup for Palaeoethnobotany (IWGP) held in Lecce, Italy, June 3–8, 2019.
- 2018: “Seeds of collapse: Archaeobotanical investigations of Byzantine and Islamic contexts”. Lecture delivered at the 19<sup>th</sup> International Congress of Classical Archaeology (AIAC) held in Bonn, Germany, May 22–27, 2018.
- 2018: “Innovation or Preservation? Abbasid Aubergines, Archaeobotany and the Islamic Green Revolution.” Lecture delivered at the European Archaeology Association (EAA) Annual Meeting held in Barcelona, Spain, Sept. 5–8, 2018.
- 2018: “The Missing Century returns.” Lecture delivered at the Martin (Szusz) Land of Israel Studies and Archaeology Dept. Young Researchers’ Conference, held at Bar-Ilan University, Ramat-Gan, Israel, Mar. 15, 2018.
- 2017: “Archaeobotanical Indicators for Regime Change and Climate Change in Shivta.” Lecture delivered at the 13<sup>th</sup> Southern Region Conference of the Israel Antiquities Authority and Ben-Gurion University Archaeology Department, Beer-Sheva, Israel, Jan. 12, 2017.
- 2016: “Reconstructing the Agricultural System of the Byzantine Negev.” Poster presented at the Seventeenth International Work Group for Paleoehtnobotany held in Paris, France, July 4–9, 2016.

### Non-specialist presentations

- 2021: “Archaeobotany and first millennium CE crop diffusion across Eurasia: a view from the southern Levant”. Presentation delivered at the inaugural Welcome to King’s Silk Road Programme, King’s College, Cambridge, UK (online event).

- 2021: “The rise and fall of viticulture in the Late Antique Negev Highlands”. Levantini podcast, Episode 44. <https://levantinipod.com/episodes/episode-44-Rise-and-Fall-Viticulture-Negev-Highlands>
- 2019: “Rummaging through the ancient garbage of Byzantine Negev residents”, TED-style talk, Beit Avichai. Available online: [https://www.youtube.com/watch?v=qbc0iwrIn\\_4](https://www.youtube.com/watch?v=qbc0iwrIn_4) (Hebrew with English subtitles).
- 2019: “Archaeobotany, archaeological theory and 20<sup>th</sup> century thought”, Bar-Ilan University Faculty of Jewish Studies forum for Presidential Scholars.

### **Key Collaborations**

- 2020–present: Core team member, *Negev Camel Caravan Project*, with PI Prof Guy Bar-Oz (U. Haifa), and co-PI Prof Gideon Avni (Israel Antiquities Authority Chief Scientist).
- 2016–present: Core team member, *Avdat in Late Antiquity Project* with PI Scott Bucking (DePaul U.) and Tali Erickson-Gini (Israel Antiquities Authority).
- 2015–2020: Team member, *NEGEVBYZ, Crisis on the margins of the Byzantine Empire: A bio-archaeological project on resilience and collapse in early Christian development of the Negev Desert*. H2020-EU.1.1. Grant 648427.

### **Field Experience in Archaeology**

- 2020: Aravah middens, on-site archaeobotanist
- 2018, 2016: Avdat dipinti cave external building, on-site archaeobotanist
- 2017: Nessana midden excavation, on-site archaeobotanist
- 2017: Elusa midden survey, participant
- 2016: Shivta southern area and middens, on-site archaeobotanist
- 2015: Elusa midden excavation, participant
- 2015: Tell es-Safi excavation, participant

### **Membership in professional societies and academic workgroups**

- King’s College Silk Road Programme – affiliate (since 2020)
- University of Cambridge Archaeobotany and Archaeological Science groups (since 2020)
- University of Cambridge Postdocs Academy – McDonald Institute representative (since 2020)
- Mediterranean Seminar (since 2020)
- Council for British Research in the Levant (CBRL) (since 2020)
- Society for Archaeological Sciences (SAS) (since 2020)
- Coalition for Archaeological Synthesis (CfAS) – affiliate (since 2021)
- Israel Economic History Association (IEHA) (since 2019)
- European Archaeology Association (EAA) (2018–2019; 2021–present)
- International Work Group for Paleoethnobotany (IWGP) (since 2016)

### **Languages**

English: Fluent (mother tongue)                      Portuguese: Fair  
 Hebrew: Fluent    Arabic: Fair

### **Professional Development Workshops**

- 2021: RStudio [Short course: code\[heritage+culture\]](#), UCL
- 2021: Engaged Researcher Online – ‘Communicating and Collaborating Using Improv.’
- 2021: University of Cambridge Researcher Development Programme (RDP).
- 2019: Science and Technology in Archaeology Cyprus (STARC) summer school
- 2019: Israel Young Academy workshop in science communication
- 2019: Beit Avichai public speaking workshop
- 2018–2019: Bar-Ilan Presidential Scholars colloquium
- 2013: Youth counselling workshop, Project Hizim