

Dr Jennifer Bates

Department of Anthropology, University of Pennsylvania

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Born: 27 March 1989; Nationality: British

EMPLOYMENT

2019-present **Postdoctoral Fellow**, Department of Anthropology, University of Pennsylvania
2015-present **Editor**, International Journal for Student Research in Archaeology

EMPLOYMENT HISTORY

2018-2019 **Postdoctoral Researcher**, Joukowsky Institute for Archaeology and the Ancient World, Brown University
2018-2019 **Postdoctoral Research Associate**, Institute at Brown for Environment and Society, Brown University
2018 **Director of Studies**, Girton College, University of Cambridge
2016-2018 **Research Fellow**, McDonald Institute for Archaeological Research
2016-2018 **Teaching Assistant**, Division of Archaeology, University of Cambridge
2015-2018 **Trevelyan Research Fellow**, Selwyn College, University of Cambridge
2016-2017 **Environmental Consultant**, phytolith analysis for Must Farm project, Historic England
2015-2016 **Editor**, Aşvan Project, Archaeobotany
2015-2016 **Environmental Consultant**, phytolith analysis for Cyrenaica Prehistory Project (Haua Fteah)
2014 **Research Assistant** (part-time), Seshat Project
2014 **Environmental Consultant** (part time), macrobotanical analysis for FRAGSUS Project

UNIVERSITY EDUCATION

2011-2016 **PhD**, University of Cambridge, Division of Archaeology
Title: Social Organisation and Change in Bronze Age South Asia: a multi-proxy approach to urbanisation, deurbanisation and village life through phytolith and macrobotanical analysis.
2010-2011 **MA Research Methods for Archaeology (Distinction)**, University College London, Institute of Archaeology
2007-2010 **MA (Hons) Archaeology and Anthropology (First Class with Distinction [1*st])** University of Cambridge

FUNDING, ACADEMIC FELLOWSHIPS, HONORS AND AWARDS

I have received c.\$423,272 funding from a wide variety of sources and continue to apply for funding in support of my research.

Pending	New Phytologist Conference Support	\$10,000
2019	Dept. of Anthropology , University of Pennsylvania	\$50,004
2019	Program in Early Cultures , (on behalf of TrowelBlazers), Brown University	\$53
2019	Program in Early Cultures , Brown University	\$220
2018	Joukowsky Post-Doctoral Fellowship , Brown University	\$95,000
2018	NERC "Taxonomic Principles and Tools in Botanical Research"	Fully funded
2017	Council for British Archaeology East	\$183
2017	Cambridge Humanities Research Grant	\$2048

2015-2018	Trevelyan Research Fellowship , Selwyn College, University of Cambridge	\$154,285
2015	NERC/ORADS grant NF/2015/1/18 grade 7	\$2826
2015	NERC/ORADS grant NF/2015/1/17 grade 8	\$4240
2014-2015	British Academy/Leverhume Small Grant	\$8534
2014	Rouse-Ball Research Fund , University of Cambridge	\$415
2013	NERC/ORADS grant NF/2013/1/6 grade 7	\$9422
2013	Rouse-Ball Research Fund , University of Cambridge	\$443
2012	Rouse-Ball Research Fund , University of Cambridge	\$528
2012	Cambridge-India Partnership Fund	\$956
2012	Rouse-Ball Research Fund , University of Cambridge	\$956
2012	Rouse-Ball Research Fund , University of Cambridge	\$328
2012	AHRC Conference Support Fund	\$274
2012	Department of Archaeology Conference Fund , University of Cambridge	\$409
2011-2015	AHRC PhD studentship , University of Cambridge	\$67,898
2011-2014	Trinity College Research Scholar , University of Cambridge	\$1843
2010-2011	AHRC MA Studentship , UCL	\$19,591
2010	Anglia Prize , Dept. of Archaeology, University of Cambridge	
2009-2010	Trinity College Senior Scholar , University of Cambridge	\$341
2009	Trinity College Projects Fund , University of Cambridge	\$273
2009	Department of Archaeology Fieldwork Fund , University of Cambridge	\$383
2008-2009	Trinity College Junior Scholar , University of Cambridge	\$239
2008	Trinity College Projects Fund , University of Cambridge	\$546
2007	Kitchener Scholar	\$1024

ACADEMIC PUBLICATIONS

I aim for high impact journals that allow for open access or self-archiving with my university, but also regularly publish in South Asian specific journals to ensure accessibility to data and interpretations.

Peer-Reviewed Monographs

Nesbitt, M., **Bates, J.**, Hillman, G., Mitchell, S.

2017. *The Archaeobotany of Aşvan, environment and cultivation in Eastern Anatolia from the Chalcolithic to the Medieval period*. British Institute at Ankara Monograph, London.

Peer-Reviewed Journal/Proceedings Publications:

Bates, J.

2019. Oilseeds, Spices and Flavours in the Indus Civilization. *Journal of Archaeological Science Reports* 24: 879–887. <https://doi.org/10.1016/j.jasrep.2019.02.033>

Singh, R.N., Petrie, C.A., Alam, A., **Bates, J.**, Ceccarelli, A., Chakraborty, S., Chakradhari, S., Chowdhary, A., Dixit, Y., French, C.A.I., Gieshe, A., Green, A.S., Green, L.M., Jones, P.J., Lightfoot, E., Pandey, A.K., Pawar, V., Ranjan, A., Redhouse, D.L., Singh, D.P., Suryanarayan, A., Ustunkaya, M.C., Walker, J.R.

2018. Living in the hinterland: survey and excavations at Lohari Ragho 2015-2017. *Purattatva* 48:130-141

Lui, X., Lister, D., Zhao, Z., Petrie, C.A., Zeng, X., Jones, P.J., Staff, R.A., Pokharia A.K., **Bates, J.**, Singh, R.N., Weber, S.A., Motuzaitė Matuzėvičiūtė, G., Dong, G., Li, H., Lü, H., Jiang, H., Wang, J., Ma, J., Tian, D., Jin, G., Zhou, L., Wu, X., Jones, M.K.,

2017. Journey to the East: diverse routes and variable flowering times for wheat and barley *en route* to prehistoric China. *PLoS ONE* 12(11):e0187405. (doi:10.1371/journal.pone.0187405)

Petrie, C.A. & **Bates, J.**,

2017. 'Multi-cropping', intercropping and adaptation to variable environments in Indus South Asia. *Journal of World Prehistory* 30(2): 81-130.
(doi:10.1007/s10963-017-9101-z)
- Bates, J.,** Petrie, C.A., & Singh, R.N.
2017. Cereals, Calories and Change: Exploring approaches to quantification in Indus archaeobotany. *Archaeological and Anthropological Sciences* 10(7): 1703–1716.
(doi:10.1007/s12520-017-0489-2)
- Petrie, C.A., Singh, R.N., French, C.A.I., Hodell, D., **Bates, J.,** Dixit, Y., Joglekar, P., Jones, P.J., Lancelotti, C., Neogi, S., Pandey, A.K., Parikh, D., Pathak, A., Pawar, V., Redhouse, D.I., Saraswat, K.S., Tewari, R.,
2017. Adaptation to variable environments, resilience to climate change: investigating *Land, Water and Settlement* in Indus northwest India. *Current Anthropology* 58(1): 1-30.
(doi: <http://www.journals.uchicago.edu/doi/full/10.1086/690112>).
- Bates, J.,** Petrie, C.A., Singh, R.N.
2017. Approaching Rice Domestication in South Asia: new evidence from Indus settlements in northern India. *Journal of Archaeological Science* 78: 193-201.
(doi: <http://dx.doi.org/10.1016/j.jas.2016.04.018>).
- Bates, J.,** Singh, R.N., Petrie, C.A.
2017. Exploring Indus Crop Processing: combining phytoliths and macrobotanical analysis to consider the organisation of agriculture in northwest India c.3200-1500BC. *Vegetation History and Archaeobotany* 26(1): 25-41.
(doi:10.1007/s00334-016-0576-9).
- Petrie, C.A., **Bates, J.,** Higham, T., Singh, R.N.
2016. Feeding Ancient Cities in South Asia: dating the adoption of rice, millet and tropical pulses in the Indus Civilisation. *Antiquity* 90 (354): 1489-1504.
(doi: <https://doi.org/10.15184/aqy.2016.210>).
- Bates, J.,** & Petrie, C.A.
2016. Phytolith Analysis and the Indus Civilisation: a review. *Man and Environment* XLI(2): 32-49.
- Liu, X., Lister, D.L., Zhao, Z., Staff, R.A., Jones, P.J., Zhou, L., Pokharia, A.K., Petrie, C., Pathak, A., Lu, H., Motuzaite Matuzeviciute, G., **Bates, J.,** Pilgram, T., Jones, M.K.,
2016. The Virtues of Small Grain Size: potential pathways to a distinguishing feature of Asian wheats. *Quaternary International* 426: 107-119.
(doi: <http://dx.doi.org/10.1016/j.quaint.2016.02.059>).
- Singh, R.N., Petrie, C.A., French, C.A.I., **Bates, J.,** Lancelotti, C., Pandey, A.K., Parikh, D., & Redhouse, D.I.,
2016. Survey and Excavations at Dabli vas Chugta, Hanumangarh District, Rajasthan, March 24-April 21,
2011. Preliminary Report for the Archaeological Survey of India, *Indian Archaeology, a Review 2010-2011* pp.75-81.
- Singh, R.N., Petrie, C.A., **Bates, J.,** Joglekar, P.P., Pandey, A.K., Parikh, D., Singh, V.K., Singh, D.P.
2013. Survey and Excavations at Bahola, Karnal District, Haryana: a preliminary report. *Bhārati* 37:27-37.
- Singh, R.N., Petrie, C.A., **Bates, J.,** Pandey, A.K., Parikh, D., Singh, D.P.
2012. Survey and Excavations at Bahola, Karnal District, Haryana: March 27 – April 17, 2012. *Manaviki* 3.2-4.1: 5-11.
- Singh, R.N., Petrie, C.A., French, C.A.I., **Bates, J.,** Lancelotti, C., Pandey, A.K., Parikh, D., Redhouse, D.I.
2012. Survey and Excavations at Dabli vas Chugta, Hanumangarh District, Rajasthan. *Puratattva* 42:133-147.
- Bates, J.**
2011. Social Organisation and Change in the Indus Civilisation, phytolith analysis of crop processing aims at Masudpur VII. *Bioscience Horizons* 4(1):1-12.
- Peer-Reviewed Proceedings Publications:**
- Petrie, C.A., Singh, R.N., Alam, A., **Bates, J.,** Ceccarelli, A., Chakraborty, S., Chakradhari, S., Chowdhary, A., Dixit, Y., French, C.A.I., Gieshe, A., Green, A.S., Green, L.M., Jones, P.J., Joglekar, P., Lightfoot, E. O'Connell, T.C., Pandey, A.K., Ranjan, A., Redhouse, D.I., Shinde, V., Singh, D.P., Singh, U., Suryanarayan, A., Ustunkaya, M.C., Walker, J.R.
In Press. Living in the hinterland: progress of the *TwoRains* project in 2017 and 2018. In Lefèvre, V., Didier, A., Mutin, B. (ed.) (In Press). *South Asian Archaeology 2018: man and environment in prehistoric and protohistoric South Asia, new perspectives*. Turnhout: Brepols Indicopeleustoi.
- Petrie, C.A., Parikh, D., Green, A.S., **Bates, J.**

2018. *Looking beneath the Veneer. Thoughts about Environmental and Cultural Diversity in the Indus Civilization*, in: Frenez, D., Jamison, G.M., Law, R., Vidale, M., Meadow, R. (Eds.), *Walking With the Unicorn, Social Organization and Material Culture in Ancient South Asia, Jonathan Mark Kenoyer Felicitation Volume*. Archaeopress, Oxford, pp. 453–474.
- Petrie, C.A., Singh, R.N., French, C.A.I., **Bates, J.**, Lancelotti, C., Neogi, S., Pandey, A.K., Parikh, D., Pawar, V., Redhouse, D.I.
2017. *Land, Water and Settlement in northwest India 2008-2012: a review of progress*. In Lefèvre, V., Didier, A., Mutin, B. (ed.) (2017). *South Asian Archaeology 2012: man and environment in prehistoric and protohistoric South Asia, new perspectives*. Turnhout: Brepols Indicoeleustoi. Pp.243-255.
- Malone, C., Stoddart, S., Ceccarelli, L., Cenciarioli, L., Duff, P., McCormick, F., Morales, J., Armstrong, S., **Bates, J.**, Bennett, J., Cameron, J., Cifani, G., Cohen, S., Foley, T., Fuliminante, F., Hill, H., Mattacchoni, L., Neil, S., Rosatelli, A., Redhouse, D., Volhard-Dearman, S.
2014. *Beyond Feasting: consumption and lifestyle amongst the invisible Etruscans*. IN Boyle, K., Rabbett, R., & Hunt, C.O. (eds.) (2014). *Living in the Landscape: essays in honour of Graeme Barker*. Cambridge: CUP. Pp.257-266.

Peer-Reviewed Publications Under Review:

Bates, J.,

In Review. The Published Archaeobotanical Data from the Indus Civilisation, South Asia, c.3200-1500BC. *Journal of Open Archaeology Data*.

Bates, J.

In Review. The Published (to date October 2017) Archaeobotanical Data from the Indus Civilisation, South Asia, c.3200-1500BC. *Open Access Database stored in the JOAD dataverse, Harvard Dataverse*. <https://doi.org/10.7910/DVN/WSHMAD>

Green, A. & **Bates, J.** et al.

In Review. A Sustainable Future through Resilient Pasts: Anthropological Archaeology's Insights into Environmental Variability, Social Choice, and the Long-Term Dynamics of Social Resilience. *Nature Sustainability*.

Bates, J., Petrie, C.A., Singh, R.N.

In Review. Living in the Hinterland of Rakhigarhi: preliminary archaeobotanical results of Sampolia Khera (MSD I) and Bhimwada Jodha (MSD VII). *Proceedings of the International Conference on Early Agro-Pastoralists in South Asia 2012, Archaeological Survey of India*.

Singh, R.N., Petrie, C.A., **Bates, J.**, Pandey, A.K., Parikh, D.

In Review. Survey and Excavations at Bahola, Karnal District, Haryana, March 27-April 17, 2012. Preliminary Report for the Archaeological Survey of India, *Indian Archaeology, a Review 2011-2012*.

Peer-Reviewed Book Reviews:

Bates, J.

2016. A Review Palaeoethnobotanical Study of Ancient Food Crops and the Environmental Context in North-East Africa, 6000 BC – AD 200/300, by Alemseged Beldados. Oxford, BAR International Series 2706, Cambridge Monographs in African Archaeology 88, 2015. *Azania: Archaeological Research in Africa (online)*

Bates, J.

2013. A Review of Thompson, V.D. & Waggoner, J.C. (eds.) "The Archaeology and Historical Ecology of Small Scale Economies", University Press of Florida. *Archaeological Review From Cambridge* 28.2: 216-220

TEACHING

- 2019 ARCH0763 *The Secret History of Ancient Toilets*. Lead Instructor, Brown University.
- 2019 ARCH1670 *The Beginning in the End: Neolithic 'Revolutions'*. Guest Lecture, Brown University.
- 2019 ARCH0760 *Palaces: built to impress*. Guest Lecture, Brown University
- 2018 ARCH1492 *Introduction to the Indus Civilization*. Lead Instructor, Brown University.
- 2016-2018 ARC1/A1 *Introduction to Archaeology*. TA, University of Cambridge.
- 2016-2018 ARC7 *Archaeological Thought II*. Seminar leader, TA (Small Group Teaching), University of Cambridge.
- 2015-2018 G02 *Core Archaeology*. Seminar leader, University of Cambridge.
- 2015-2016 ARC02 *Archaeology in Practice*. Lecturer, University of Cambridge.

2015-2016	A1 <i>Introduction to Archaeology</i> . TA (Small Group Teaching), University of Cambridge.
2014-2015	A1 <i>Development of Human Society</i> . TA (Small Group Teaching), University of Cambridge.
2013-2018	ARC2 <i>Archaeology in Practice: Microscopy</i> . Practical leader, University of Cambridge.
2013-2018	ARC2 <i>Archaeology in Practice: Archaeobotany</i> . Practical leader, University of Cambridge.
2013-2014	A2 <i>Archaeology in Action: Archaeology in the lab</i> . TA (Small Group Teaching), University of Cambridge.
2013-2014	A2 <i>Archaeology in Action: Landscapes</i> . TA (Small Group Teaching), University of Cambridge.
2012-2018	A7/ARC08/G10 <i>Archaeological Science: Archaeobotany</i> . Lead Instructor, University of Cambridge.
2012-2018	Undergraduate, Masters, PhD <i>laboratory project supervision</i> . University of Cambridge.

FIELDWORK AND ANALYSIS

Projects (Excavation and Analysis)

2017-present	Montelabate (Italy) Scientific sampling advisor
2016-present	TwoRains (India) Archaeobotanist
2015-present	Haua Fteah (Libya) (Cyrenaica Prehistory Project) Environmental consultant
2014-2015	FRAGSUS (various sites in Malta) Environmental consultant
2010-2015	Land, Water, Settlement Project (India) Archaeobotanist

Excavations

2018	Masudpur I (India) Excavation, flotation, sampling strategy
2017	Lohari Ragho I (India) Excavation, flotation, sampling strategy
2014, 2015	FRAGSUS (Malta) Excavation, flotation, sampling strategy
2012, 2013	Montelabate (Italy) Excavation, flotation, sampling strategy
2012	Bahola (India) Excavation, flotation, sampling strategy
2012	ACE Summer School (UK) Supervising outreach excavations
2011	Dabli vas Chugta (India) Excavation, flotation, sampling strategy
2009-2010	Under the Ground Project Yaverland (Isle of Wight, UK) Resistivity and magnetometry survey
2009	Over (UK) Excavation and resistivity and magnetometry survey
2008-2009	Kilese Tepe (Turkey) Excavation and flotation
2005	Alfoldean (UK) Excavator with Time Team™
2002-2003	Yaverland (Isle of Wight, UK) Field walking survey and test pit excavation

Analysis

2016-2017	Must Farm (UK) Environmental consultant
2015-present	Bannu Basin Project (Pakistan) Archaeobotanist
2015-present	Ganeshwar (India) Archaeobotanist
2015-present	Alamgirpur (India) Archaeobotanist
2015-present	Sarai Khola (Pakistan) Archaeobotanist
2015-present	Haua Fteah (Libya) (Cyrenaica Prehistory Project) Environmental consultant
2013	Wandlebury (UK) Archaeobotanist (for future isotopic analysis)
2013	Isle of Rhum Deer Project (UK) Botanist (for future isotopic analysis)
2013	Avaldsnes (Norway) Archaeobotanist
2012	Origins of Weaving Project (Europe) Archaeobotanist
2011	Avaldsnes (Norway) Archaeobotanist

- 2004-2011 **Isle of Wight County Archaeology Unit (UK)** Assistant to County Archaeologist and HER Officer
 2004 **Isle of Wight County Archaeology Unit (UK)** Finds accessioning
 2003 **Yaverland (Isle of Wight, UK)** Finds accessioning

ACADEMIC PRESENTATIONS AND MEETINGS

Steering Committee

- 2019 State of the Field, the Ancient DNA Revolution in Archaeology, JIAAW

Session Organisation

- 2017 American Anthropological Association 16th Meeting
 2016 World Archaeology Congress 08 Kyoto

Paper Presentation

- 2019 International Working Group for Paleoethnobotany, Lecce
 2019 Hacking Heritage Unconference
 2018 47th Annual Conference on South Asia
 2018 24th Conference of the European Association of South Asian Archaeology and Art
 2017 Invited lecture to staff and students at Lucknow University
 2017 Joint Annual Conference of the IAS, ISPQS & IHCS, Banaras Hindu University
 2016 World Archaeology Congress 08 Kyoto
 2016 23rd Conference of the European Association of South Asian Archaeology and Art
 2016 Friends of the Brading Roman Villa (invited speaker)
 2015 Early Rice Symposium, UCL
 2015 University of Cambridge Archaeological Field Club (invited speaker)
 2015 Allchin Symposium on South Asian Archaeology, Durham
 2015 XIX International Quaternary Association Congress
 2014 Allchin Symposium on South Asian Archaeology, Cambridge
 2014 UK Archaeological Sciences, Durham
 2014 9th International Meeting for Phytolith Research
 2014 22nd Conference of the European Association of South Asian Archaeology and Art
 2014 ADG Lecture Series, University of Oxford (invited speaker)
 2014 Asian Archaeology Group, University of Cambridge (invited speaker)
 2014 Material Culture Lab/African Archaeology Group, University of Cambridge (invited speaker)
 2014 S3ET ICREA Conference, Barcelona
 2013 Allchin Symposium on South Asian Archaeology, Cambridge
 2013 Current Research in Phytolith Analysis Workshop, CSIC-IMF, Barcelona
 2013 UK Archaeological Sciences, Cardiff
 2013 ADG Lecture Series, University of Oxford (invited speaker)
 2013 Millets: a past, present and future solution to food security challenges Workshop (invited delegate)
 2013 16th Conference of the International Workgroup for Palaeoethnobotany
 2013 Frontiers of European Iron Age Conference
 2012 International Conference on Early Agro-Pastoral Cultures of South Asia (invited speaker)
 2012 21st Conference of the European Association of South Asian Archaeology and Art
 2012 21st Conference of the European Association of South Asian Archaeology and Art

2011 Asian Archaeology Group, University of Cambridge (invited speaker)

MUSEUM/ART EXHIBITIONS

- 2019 “Hidden Voices” An installation and outreach project exploring the archaeological contributions of women, people of colour and minority groups. Displayed throughout the Joukowsky Institute as part of the ongoing Trowel Blazers initiative.
- 2019 “Secret History of Ancient Toilets” An installation of posters at the Joukowsky Institute, funded by Program in Early Cultures.
- 2019 “Ancient Rice in South Asia” An art installation at the annual MIT Water Night event
- 2018-2019 “Seals and Figurines – exploring the production of identity in the Indus Civilization” An exhibition of objects made during class (ARCH1492, Introduction to the Indus Civilization) at the Joukowsky Institute for Archaeology and the Ancient World, Brown University. Co-curated with students from ARCH1492.

SERVICE AND PROFESSIONAL DEVELOPMENT

- 2019 Presentations and support at the Graduate Prospective event, JIAAW, Brown University
- 2019 Running a field project professionalisation event, JIAAW, Brown University
- 2019 Conference preparation professionalisation event, JIAAW, Brown University
- 2018 Title IX training, Brown University
- 2018-present Mentor for PhD students at the Joukowsky Institute, Brown University
- 2018 Director of Studies in Archaeology and Human, Social and Political Science, University of Cambridge
- 2017 Prevent training, University of Cambridge
- 2015-present Editor for *International Journal of Student Research in Archaeology*
- 2015-2018 Admissions interviewer for Undergraduate degrees in Archaeology and Anthropology, and Human, Social and Political Sciences (HSPS) at Selwyn College, University of Cambridge
- 2016-2018 Post-Doctoral Committee Secretary, Division of Archaeology, University of Cambridge
- 2016-2018 Selwyn College Buildings and Maintenance Committee, University of Cambridge
- 2015-2018 Selwyn College Gardens Committee, University of Cambridge
- 2015-2018 Selwyn College Governing Body, University of Cambridge
- 2015-2018 Archaeobotanical Lab Group organiser, Division of Archaeology, University of Cambridge
- 2015-2016 Post-Doctoral Divisional Representative, Division of Archaeology, University of Cambridge
- 2016-2016 McDonald Seminar Series organiser, University of Cambridge
- 2012-2018 Departmental and Divisional TA and Supervisor (small group teaching)
- 2012-2014 Asian Archaeology Group Seminar Series organiser, University of Cambridge
- 2012-2013 George Pitt Rivers Laboratory Seminar Series organiser, University of Cambridge
- 2012-2013 University of Cambridge Archaeological Field Club Graduate Liaison and Events Officer
- 2009-2010 University of Cambridge Archaeological Field Club Practicals Officer
- 2008-2013 Personal Histories Project volunteer/organisation team
- 2008-2009 Part I Representative, Department of Archaeology, University of Cambridge
- 2006-2011 Assistant to Isle of Wight County Archaeologist and Historic Environment Records Officer
- 2005-2007 Assistant for Isle of Wight Young Archaeologists Club

Journal Reviewer

Anatolian Studies

Archaeological and Anthropological Sciences

Frontiers in Plant Science

Geoarchaeology

The Holocene

International Journal of Student Research in Archaeology

Iran

Journal of Archaeological Science

Routledge

Scientific Reports (Nature)

Advisory Editorial Board

International Journal of Student Research in Archaeology

PROFESSIONAL AFFILIATIONS

American Anthropological Association

World Archaeology Congress

Quaternary Research Association

European Association for South Asian Archaeology and Art

Indian Society for Prehistoric and Quaternary Studies

International Phytolith Society

PUBLIC OUTREACH AND ENGAGEMENT

2019	TrowelBlazers@Brown organizer and representative
2019	Brown Alumni magazine interview on ARCH0763 course
2019	“Brains On!” Podcast for America Public Media on Indus toilets and sanitation
2019	“Ancient Rice in South Asia” An art installation at the annual MIT Water Night event
2018	AIA International Archaeology Day, Brown University
2016	Newspaper articles (Daily Mail, Evening Standard, Metro, Times of India, Telegraph India)
2016	“I’m a Scientist, get me out of here!”
2016	Interview on Cambridge TV about role in “I’m a Scientist, get me out of here!”
2016	Interview practice for Selwyn Schools Liaison
2016	Pre-university residential talk on archaeology as a university option, Selwyn College, University of Cambridge
2016	Talk for Friends of Brading Roman Villa
2016	School talk (ages 10-18 years) and artefact handling day, Priory School, Isle of Wight
2016	University application advice session for pre-university students, Priory School, Isle of Wight
2013	Participated in Slate.com article “The Mystery of Curry” by A. Lawler
2012	Participated in Science article “The Ingredients for a 4000-year-old Proto-Curry” by A. Lawler
2012	Supervisor for Association for Cultural Exchange excavations
2012-2018	University of Cambridge Science Days
2011-2018	University of Cambridge Festival of Ideas
2011-2018	Laboratory tours for new students, summer school students, visiting scholars and other visitors
2011-2018	Prehistory Day assistant
2011	UCL Archaeology Open Day Volunteer
2008-2018	University of Cambridge Archaeology Open Days

- 2008-2013 Personal Histories Project volunteer/organising committee
 2005-2006 National Archaeology Open Day volunteer, Fort Cumberland

TECHNICAL EXPERIENCE AND SKILLS

Field and Laboratory:

- Environmental sampling
- Archaeobotanical sampling, lab preparation and analysis (macro- and microbotanical)
- Increasing familiarity with diatom, starch and pollen analysis
- SEM, transmitted and reflected light microscopy
- Modern and archaeological botanical reference collection development and curation
- Botanical morphometrics
- Geochemical analysis (ICP-AES)
- Microcharcoal and faecal spherulite analysis
- Geostatistics

Excavation

- Excavation experience on a range of sites with a diversity of excavation techniques
- Co-ordination of sampling strategies across range of site types and environments
- Survey (landscape and site scale) using a range of techniques
- Student supervision of excavation and specialist jobs
- Artefact sorting and accessioning post-excavation/survey
- Post-excavation analysis of remains
- Report writing

Computing:

- Office software (including database building in Access)
- SPSS, developing familiarity with R
- Web design and management
- CorelDRAW and PhotoShop
- Google Earth interactive map building and QGIS/ArcGIS map building

RESEARCH PROJECTS

Current

SPACE – exploring the spatial activity areas of Indus houses (data processing stage)

Indus Borders Project – exploring the impact of social interaction on the edges of the Indus Civilization (publication stage)

TwoRains – project archaeobotanist (microbotanical)

Current – student

Morphometrics of wheat and barley – supervision of student project (publication stage)

Phytoliths and geoarchaeology of Early Historic Burj – supervision of student project (publication stage)

Future – student

Mud Brick Recipes – the impact of environment and social choices on building materials

Future – five year plans (with two-year pilot study)*Origins of Rice in South Asia**Ash Mound – the seasonality and functionality of Southern Indian dung tells.***REFEREES****Dr Cameron A. Petrie**

Reader in South Asian & Iranian
Archaeology
Current PI (TwoRains)

Department of Archaeology
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Current PI (CaSEs)

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Prof. Martin Jones

Professor of Archaeological
Science

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Prof. Peter van Dommelen

Director, Joukowsky Institute for
Archaeology and the Ancient World
Current PI (The S'Urachi Project)

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Prof. Kathleen Morrison

Department Chair, Sally and Alvin
V. Shoemaker Professor of
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