

<p>Institution: University of Bristol</p>
<p>Unit of Assessment: 17 – Geography, Environment Studies and Archaeology</p>
<p>a. Overview</p>
<p>The Department has consolidated its move towards rounded, ‘four-field’ approach to its disciplines, by combining archaeology with evolutionary, social and linguistic anthropology. This strategy has facilitated considerable change and renewal since 2008, with substantial turnover of staff, increased research income per FTE, and a growing output of research papers reaching top discovery journals of <i>Science</i>, <i>Nature</i> and <i>PNAS</i>. Informed by scientific analysis, much research concerns the effects of colonisation and ‘globalisation’. This has been a substantial reform following RAE2008, and extends to research-led teaching, as the Department launches a new BA degree in Anthropology in 2014. Now thriving on interdisciplinary study of human behavioural diversity, the department’s research integrates the four fields in particular instances of globalization and processes of evolution, past and present. This has been achieved through four new full-time staff appointments and since RAE2008, the University of Bristol has revitalized the Department of Archaeology and Anthropology, which now has ten full-time research-active staff. Under this new research direction, grant submission per FTE is more active and successful than in 2008: in 2012-13 the annual research income per FTE was roughly double what it had been in 2008. Recent grant successes include a 5-year ESRC grant to study Infectious Diseases in the Developing World, an EU-funded Network to research the transatlantic slave trade, multiple Marie Curie Fellowships, a Royal Society Newton Fellowship, and numerous smaller grants from English Heritage and foreign governments. This has added four postdoctoral researchers to the Department, and attracted visiting Professors from Mongolia (2011), Ethiopia (2013), and the USA (2014).</p>
<p>b. Research strategy</p>
<p>Since RAE 2008, the strategic aims for research have decisively turned toward a rounded ‘four-field’ approach, which combines archaeology with evolutionary, social and linguistic anthropology. The change is comprehensive, facilitated by highly strategic hiring of staff, beginning with Alex Bentley in 2011, an explicitly interdisciplinary researcher between anthropology and archaeology, who then led the search committees in 2012 for a new Lecturer in Anthropology (Fiona Jordan) and Lecturer in Scientific Archaeology (Lucy Cramp), and in 2013 for a Reader in Archaeology (Joanna Brück). As a result, the research of the Department is more scientifically focused than it was for the 2008 RAE, on themes that span these four fields of archaeology-anthropology. The research now comprises a long view, from Neolithic dispersal [e.g., 3,7,8,11,15,23 references page 7] to more recent state-level colonial transgression [4,9,10,12--14], transatlantic slave trade [14,17] and global conflict [20] through to modern globalized development [9,10] and public engagement [1,2].</p>
<p>Underlying our priority developmental areas for research is a shared interest in globalization [2, 9–14] and processes of cultural change [1,2,7–10,15,16,24,26]. In our long view, we consider how the behavioural foundations of state-level subjugations might be elucidated by our research on prehistoric kinship and early resource inequality [3,5,7,8,15]. The research programme has achieved international standing and clear improvement since the 2008 RAE. The push for high-profile papers began after 2008 RAE [e.g. 24, 25], but since 2011, Department staff published two papers in <i>Science</i> [16,18], one paper in <i>Nature</i> [7] and four papers in <i>PNAS</i> [3,10,24,25]. Other papers have recently appeared in Royal Society journals and in <i>Antiquity</i> [6,20,21,26]. A cultural environment of aiming high now presides, along with an aim of open-access publishing [1,2,9].</p>
<p>A Department strength is an interdisciplinary approach that combines traditional field archaeology and anthropology [5,9-14,18,20,21] with cutting-edge analysis of anthropological data by evolutionary methods [1,2,6,7,8,13,14] or archaeological materials by isotopic methods [3,16,24,26] and micro-imaging [14,17]. Large-scale, interdisciplinary project proposals are common, including an integral role [e.g., 6,7] in Evershed’s 5-year, £2.2M ERC grant to study the origins of Neolithic dairying (starting 2013). Field research in archaeology and anthropology takes</p>

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place in the U.K. but also Ethiopia, Turkey, Jordan, Madagascar, Tanzania, Sri Lanka, France, Mongolia, Belgium, Slovenia, Hungary, Peru, and the U.S.

b.1 Sustainability and Future goals. In the next five years, the main objectives and activities in research will concern these themes:

b.1.1 Neolithic Europe is part of our flagship research. Two Department members (Bentley and Bickle) just finished up a 4-year AHRC project ("LBK Lifeways") using isotopic analyses on hundreds of archaeological skeletons exploring the diversity of lifeways in early Neolithic Europe [e.g., 3]. Evershed's 5-year, £2.2M ERC grant to study Neolithic dairying began in 2013, by funding Bickle's 5 year postdoctoral post and a new PhD student. Further, related isotopic and archaeological research will be led by Heyd, through two additional post-doctoral researchers funded by the Swiss National Science Foundation. The result is a deep international pool of collaborators for Neolithic research now and in the future.

b.1.2 The effects of colonization and globalization, from prehistory to present, is a key element our research. Modern effects of globalisation are addressed by Gibson, building on previous work [9,10] Professor Eshetu Gurmu of Addis Ababa University, on the effects of modern farming technology in two regions of Ethiopia. Study of pre- and proto-history of globalization begins with the ERC Sea-links project to explore exchanges across the Indian Ocean (Robson Brown and Horton) and a related AHRC/NSF collaboration (with National University of Mongolia, York and Rice Universities) investigates the northern 'Silk route'. In North America, evidence concerning European expansion is being excavated on the island of Hatteras (NC) by Horton, who plans to excavate early Virginian colonies established the town of Berkeley (Gloucestershire) in 1619. Bristol's role in the slave trade is the focus of Robson-Brown's team within EuroTAST, an EU-supported network to study the transatlantic slave trade, analysing the human remains of hundreds of African slaves buried on the island of St Helena. Attracted by this research activity, Professor Cameron Monroe (U.C. Santa Cruz) will visit in 2014 to continue his research on West Africa during slave trade, and also Bristol obtained a 3-year contract (2013-2015) with the Fulbright Commission to host a 4-week summer institute on "Slavery and the Atlantic Heritage."

b.1.4 Conflict archaeology during the centenary of the First World War is a major research opportunity to be led by Nick Saunders, who serves on the Council for British Archaeology's steering group for a national project. Saunders will lead an Arts Faculty effort for a major grant exploring the War's legacies from an archaeological [21], historical and artistic perspective, with collaborations with media and institutions such as Imperial War Museum.

b.1.5 Culture evolution, past and present. Department staff are leaders in the development of culture-evolutionary models and computer simulations that are tested on cross-cultural data, ranging from records of kinship and linguistic diversity of traditional societies worldwide [e.g., 14,15] to language use in 20th century books and texts mined from contemporary online media [e.g. 1,2]. Jordan is PI on a NSF-funded grant (2013-15) to synthesise linguistic and cultural data for over 1500 societies an open-access resource. She is also PI on the Max-Planck-funded Evolution of Semantic Systems project (2010-14), a field-experimental survey of how meanings vary over space and time in over 50 languages across Europe and Asia. Further funding is sought for computers and specialised software towards these activities.

b.1.6 Archaeological science. We were awarded £40K for an archaeological science laboratory for biomolecular analysis of archaeological materials. New equipment includes a gas chromatograph (GC) for quantifying preserved components in archaeological samples (one of our specialities), which enhances our collaboration with the School of Chemistry (where the spectrometry analysis is completed). A related ambition with several other Departments is to acquire an AMS radiocarbon (¹⁴C) analysis instrument.

c. People

c.1 Staffing strategy and staff development is the most obvious and comprehensive change since RAE 2008. During the REF period, the University of Bristol invested substantially in the strategically re-staffing of Department of Archaeology and Anthropology. As a result, the Department has changed almost entirely – by the end of the REF period, ten of the full time staff

who were listed in RAE 2008 were no longer at Bristol, and four new-time staff had joined by 2013, resulting in one of the few Departments with a female majority on its staff. The Department now comprises ten FT research-active staff (note only six Department staff from RAE 2008 are in REF 2014). This is enhanced further by five current grant-funded postdoctoral researchers (Drs. Kador, Acerbi, Bickle, Tee, Witkin), and two more in 2013-2014. Three visiting Professors (Dashtseveg, Gurmu and Monroe) visited in 2013-2014.

c.1.1 Equal opportunity: School-wide policies govern maternity leave, family-friendly working arrangements, and respect for ethnic and cultural diversity. We follow the key principles of Concordat to Support the Career Development of Researchers. Its positive influence is evidenced by recent hires, such that the majority of our FT staff (60%) now are women, who regularly hold senior Department positions, including current Deputy Head of Subject and past (and likely future) Head of Subject.

c.1.2 Staffing policy and infrastructure: The University's commitment to re-staffing the Department has allowed recent hiring – Bentley in 2011, Jordan in 2012, Cramp and Brück in 2013 – to be carried out in parallel with the scientific vision for the Department (Section 2). The hiring also fit a physical infrastructure of exceptional laboratories amid the University's shared facilities policy. By RAE 2008, isotopic analysis had already been established in collaboration with Earth Sciences [e.g., 18, 24], and with Chemistry's world-leading facilities for compound-specific isotope analysis [6,7]. Exploiting these laboratory links (see 4.3.1, below) was a focus of recent staffing, which spurred further developments. Cramp for example, received a University grant in her first year to build laboratories in the Department, procedurally articulated with laboratories in Chemistry (see 2.1.6 above). Also, within the REF period Robson-Brown established a clean laboratory in the Department for CT-scanning of archaeological materials, which then proved excellent space also for the preparation of skeletal material for strontium isotope analysis – a key factor in the hiring of Bentley, grant capture (e.g. see 5.1.5), attracting postdoctoral Fellows (e.g., Kador, Bickle) and PhD students. Current postdocs – Drs. Tee, Bickle, Acerbi, Kador – funded by the Templeton Foundation, the ERC, Royal Society and EU-FP7, are producing excellent outputs [e.g. 1,3,23] and new collaborations with organizations such as Discovery Programme in Ireland and the Universities of Stockholm and Cardiff.

c.1.3 Career progression: Career progression runs by University policy. All staff that joined the department prior to 2010 have been progressed or promoted, including two promotions to Professor (Horton and Robson-Brown). All new staff are assigned a mentor, and new staff are given lighter teaching loads during their first year. Cyclic research leave entitlement is available to all staff, based on the Faculty model of one year in five.

c.2 Research students: All staff have supervised doctoral students. General support for postgraduate study is supplied by the Graduate School of Arts and Humanities, which also coordinates the AHRC BGP and DTP schemes. In 2013, Department staff supervised PhDs funded by the AHRC (four), Bristol Centre for Complexity Sciences (one), University Doctoral Fellowship (one), Schools Competition Act Settlement Trust (one), the US-UK Fulbright Commission (one), the Luxembourg government (one) and the "EuroTAST" programme (two). These outstanding students thrive in our research environment, e.g. one was awarded £45K from NERC in 2013 towards her PhD research. The Bioarchaeology Research Theme, led by Robson-Brown, includes twenty research postgrads and postdocs.

c.2.1 Student support and supervision: The Supervisor capacity of the department is 8.7 FTE for PGR (Funded + Non-Funded). Subject-Specific Training Activity for postgraduate students is complemented by general training provided by Bristol University. Research student representatives sit on the postgraduate Staff-Student Liaison Committee. All research students are initially registered for MPhil. Upgrade from any of these to PhD is subject to a formal viva voce interview with two assessors. University guidelines and ethical reviews govern upgrades.

c.2.2 Student academic networking: A weekly Archaeology and Anthropology research seminar series runs throughout the academic year. The well-advertised seminars, organised by staff, in consultation with research students, are open to all, and consequently attract audiences of between 20 and 60. Content is well-balanced between archaeology, biological anthropology, archaeological science, and social anthropology. Additionally, the student-run Archaeology and

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Anthropology Society is dedicated to active engagement in the fields of archaeology and anthropology. Bioarchaeology lab group meetings are held fortnightly. Other activities include a public lecture series with prestigious speakers, expert-led field trips, and social events. The society's Facebook page is lively.

c.2.3 Student Career development: The Graduate School provides career development for postgraduate students in research skills, language training and professional development. Research students are encouraged to present at department seminars, professional conferences, and the annual Research Students Conference. BIRTHA offers financial support. Successful PhD graduates from this REF period include Cassie Newland, now Research Associate Kings College London and presenter for a 2013 BBC2 TV series on invention, Heidi Dawson, now Lecturer in Forensic Anthropology at Kingston University, and Alice Roberts now Professor of Public Engagement in Science, University of Birmingham. Our PhD students began the annual Conference in Modern Conflict Archaeology, with edited book [22].

d. Income, infrastructure and facilities

d.1 Income (initials are for the PIs)

- **£480K (of €4.2M total) from EU FP7** for 'EUROTAST' Marie Curie network on History, Archaeology and Genetics of the Transatlantic Slave Trade, 2012-16 (Robson Brown).
- **£2.2M ERC** grant for "NEOMILK" project, which funds Penny Bickle's 5-year postdoc in Archaeology and Anthropology (Evershed, School of Chemistry, P.I., Heyd, Bentley).
- **£262K from the EU FP7** for Marie Curie Fellowship of Dr. Thomas Kador (Bentley).
- **£187,903 from Royal Society** for the Newton Fellowship of Alberto Acerbi (Bentley).
- **£167K from AHRC/NSF** "Songo Mnara Urban Landscape" (Robson-Brown, Horton).
- **£150K from Centro Cultural Peruano Britanico (Peru)** 2005-2010 (Saunders).
- **£130K (of £250K) from ESRC** on primate retroviral transmission, 2011-16 (Gibson).
- **£120K from Leverhulme Trust** on development in rural Ethiopia 2008-11 (Gibson).
- **£120K from the Templeton Foundation** on science and Islam, 2013-14 (Shankland).
- **€95K** from Berlin Freie University for a bioarchaeology project & PhD, 2006-11 (Heyd).
- **€75k (of €450k) Swiss National Science Foundation** for isotope analysis (Heyd).
- **£75K from the ESRC** supporting Dr. Isabel Scott to study mate preferences (Gibson).
- **£51K from Leverhulme Trust** on micro CT technology project (Robson Brown)
- **2 PhDs funded by Berlin Freie Univ.**, 2012-2017 (Heyd & Evershed).
- **£42K British Acad**, osteoarchaeology of African-British 1750-1850 (Robson Brown).
- **€42K** from Charity for Tincry fieldwork project, France, 2007-2010 (Heyd).
- **£39K from Leverhulme Trust** for St Helena slave excavations, 2010 (Robson-Brown)
- **€25K** from the Finnish Cultural Foundation (Heyd).
- **£67K from Institute for Aegean Prehistory, British Academy and British Institute at Ankara** for archaeological field work in Turkey, 2007-08,'12 (Momigliano & Hodos).
- **£45K from NERC LSMSF** for isotope analysis by PhD Cat Jarman (Bentley & Horton).
- **£45K from English Heritage** for 'Home Front (1914-39) Project', 2012 (Saunders).
- **£30K, Jordanian Research Fund** for 'Great Arab Revolt Project,' 2010 (Saunders).
- **£19K from British Academy** for a UK Africa Academic Partnership, 2006-10 (Gibson).
- **£17K AHRC** for PhD study, Arnos Vale Cemetery, 2010 (Horton, Mowl, Robson Brown)
- **\$15K from Wenner-Gren** two for anthropology conferences, 2008 & 2011 (Shankland).
- **£18K** for Open Society Foundation for research collaborations in Mongolia (Horton)
- **£11K** from AHRC 2012 "Demography and health in 18th-19thC Bristol (Robson-Brown)

d.2 Infrastructure: The Archaeology and Anthropology Department is housed in a listed Arts and Crafts building, equipped with its own lecture theatres, seminar rooms, laboratories, computer rooms, stores and offices. The Department owns 3 Land Rovers. Other facilities outside the building include a materials store and an osteoarchaeology laboratory.

d.2.1 University support of the research environment: The University's Research and Enterprise Development office has over 80 staff working with academics and researchers to sustain and grow research activities. University Research Institutes (Cabot and Elizabeth

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Blackwell) funds new research initiatives, particularly interdisciplinary proposals. The Institute of Advanced Studies funds meetings and research fellowships. The University provides support and training for grant writing, management, leadership, and dissemination of research. The Faculty funds research and conferences, and holds a general policy of research leave.

d.2.2 Technical support staff: The Department appoints a full-time technician, Philip Rowe, M.A., to manage the use, training and maintenance of the field equipment, which includes geophysical prospecting equipment, survey tools, Land Rovers. The Department also employs Technical illustrators (Sue Grice and Anne Leaver) who share a 0.8 FTE post.

d.2.3 Administrative support staff: After a re-structuring of the administrative team in 2011, the Student Administration Team now consists of 3 full-time and 5 part-time administrators (total FTE: 7), managed by two Student Administration Managers (job share). The executive team consists of the School Manager, an executive assistant and an admin assistant.

d.3 Facilities

d.3.1 Laboratory facilities: In pursuing its scientific research, the Archaeology and Anthropology Department makes considerable use of shared laboratory facilities at Bristol University for research and teaching:

- The Organic Geochemistry Unit (OGU) and NERC Life Sciences Mass Spectrometry Facility facilitate high-end analytical techniques such as gas chromatography mass spectrometry and compound specific light stable isotope mass spectrometry. These facilities, among the best in the world, are vital to research in our department [e.g., 6,7].
- Our own archaeological science laboratory (see 2.1.6 above) will add to existing micro-CT scanning facility, microscopes, GIS and state-of-the-art survey equipment.
- The Bristol Isotope Group (BIG) in Earth Sciences facilitates isotope measurements, e.g., to trace the origin of materials and skeletons [e.g., 3] or date cave art [e.g., 18].
- The Department of Archaeology and Anthropology is part of an initiative with Chemistry, Earth Sciences and Geographical Sciences, to acquire an AMS radiocarbon (¹⁴C) analysis instrument for chronological dating of material up to 40,000 years.

d.3.2 Space/facilities available for PGR students and research groups: The Graduate School provides every postgraduate student with desk space, computers, printing, library and e-resources facilities, as well as the high-performance computing cluster facilities. The University IT department also provides dedicated seminar and teaching spaces.

e. Collaboration and contribution to the discipline or research base**e.1 Involvement in major (inter)national research projects**

e.1.1 The AHRC "LBK lifeways" project (AH/F018126/1), which concluded in 2012, was an investigation of diversity in the lifeways of the early European Neolithic LBK culture (c. 5500-4900 cal BC). The project (lead P.I. Alasdair Whittle) started as a collaboration between Cardiff, Oxford and Durham universities, and then Bristol University after co-P.I. Bentley joined the Department in 2011. The project, which yielded numerous peer-reviewed (e.g. 3) papers and a 528p monograph (23), facilitated further collaboration between Bristol, Oxford, Durham and Cardiff, and with partners across Europe, which Bickle is now using as postdoctoral researcher for Evershed's 5-year ERC "NeoMilk" project.

e.1.2 The £2M, 5-year ERC-funded "NeoMilk" grant was awarded to Evershed in Chemistry, but the Department is integrally involved, including Heyd and the main postdoctoral researcher on the project, Penny Bickle, being based in Archaeology and Anthropology, and a project PhD student supervised by Bentley & Evershed. The project puts the Department in collaboration with UCL, Exeter, Cardiff and multiple European institutions providing archaeological material.

e.1.3 The ESRC Human Dimensions to infectious Disease (2011-16) project involves Universities at Wisconsin and Stanford for animal science, and our Department (with funded PhD student) researching human-primate interaction behaviour in a Ugandan national park.

e.1.4 The ERC Sealinks Project (www.sealinksproject.com) is a international collaboration 20 scientific experts on transoceanic connections and proto-globalisation 3000 BCE to 1000 CE

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through archaeobotany, genetics, ¹⁴C chronologies, artefacts and fauna. Horton is P.I. on the excavations on Zanzibar, Pemba, Mafia, Madagascar, Comoro Islands and Sri Lanka.

e.1.5 The AHRC–NSF funded project on Songo Mnara (www.songomnara.rice.edu) is a collaboration between U.S. (Rice, Northwestern) and UK (York, Bristol) universities, to explore the role of this UNESCO World Heritage site in Indian Ocean commerce during the 15th and 16th centuries AD. Horton is P.I. for the “Mosques and Architecture” component, delivering an understanding of the role of mosques and Islam within this Swahili town.

e.1.6 EuroTAST is an EU-supported network to study the history and legacies of the transatlantic slave trade. With Robson-Brown leading the Bristol component, EuroTAST links the department closely with the Universities of Copenhagen, York, Hull, Porto, Santiago de Compostela, Paul Sabatier Toulouse, Leiden, the CNRS Paris, DeCode Genetics Reykjavik, and SIMARC St Maarten Dutch Antilles. It also involves partnerships with the U. of Ghana, Universite Cheick Anta Diop in Senegal, U. North Carolina, International Slavery Museum Liverpool, Museum of London Docklands, and National Institute for the Study of Dutch Slavery, Amsterdam. EuroTAST attracted the Fulbright Commission to support a 3-year contract with Bristol University to host a summer institute on "Slavery and the Atlantic Heritage. EuroTAST is a reason Professor Cameron Monroe (U.C. Santa Cruz) will spend a 2014 sabbatical in Bristol.

e.2 NGOs include English Heritage, Gates Foundation, Saxony-Anhalt, Winchester Cathedral, Brunel Institute, Berkeley Castle, SS Great Britain Trust, and Council for British Archaeology.

e.3 Museums collaborating are in the USA, New Zealand, Belgium, Slovenia, Jordan, Finland, Germany, France, Ethiopia, Sri Lanka and Mongolia. UK collaborators include the Imperial War Museum and British Museum, and in Bristol are the SS Great Britain Trust, Arnos Vale, Bristol City Council and Edward Jenner Museum. Robson Brown helped design the permanent Wellcome Trust Human Origins exhibit for @Bristol museum.

e.4 Editorial board positions (current) include *Frontiers in Cognitive Science* (Jordan), Anthropological Index Online (Shankland), *American Journal of Archaeology* (Hodos), *Anatolian Studies* and British Institute Ankara Monographs (Hodos), Ashgate's *Material Culture and Conflict* (Saunders) the *Pen and Sword* series on Modern Conflict Archaeology (Saunders) *PLoS ONE* (Jordan and Bentley), *Frontiers in Evolutionary Psychology* (Bentley).

e.5 Steering groups and management committees include Robson-Brown's ministerial appointments as founder of the Human Tissue Authority and as Ambassador for Gender and Equality in Public Service. Shankland is Director of the Royal Anthropological Institute. Hodos was Honorary Secretary of British Institute at Ankara (2005-2009) and on the Council of the International African Institute. Gibson is Affiliatory Research Fellow in the Institute of Development Research, Addis Ababa University and Secretary of the Biosocial Society. Saunders is Executive Committee for 'In Flanders Fields Museum' and served on AHRC International Focus Group for the MoD in 2012. Bentley is a steering member of "The Connected Past" research group. Robson Brown is lay chair for the Severn Deanery (NHS). Stuart Prior, as a member of the Health & Safety in Archaeology working group of the Health and Safety Executive and Institute for Archaeologists, has a grant from the Higher Education Academy to run a H&S seminar in 2014 for 50 delegates from these professional groups.

e.6 Conference organisation: The Department hosted the Theoretical Archaeology Group (TAG) conference in December 2010. Department PhD students organise an annual Conference in Modern Conflict Archaeology [22]. Bentley co-organized the International Network Science conference "NetSci" (2012, Chicago), as well as multiple conferences at Durham University (Bentley 2009, 2010 & 2011), funded by Leverhulme and the ESF. Heyd co-organized sessions at the EAA meetings in The Hague (2010) and Helsinki (2012). Hodos co-organised a conference at Bristol Institute of Advanced Studies, January 2009).

e.7 Residencies and visiting posts: Hodos was Visiting Fellow in the Archaeology at Stanford (2011-2012). In 2011, Bentley was Visiting Scholar at Northwestern University (Anthropology Department & Institute on Complex Systems). Heyd was a caretaker Professor at Martin-Luther-University (2008-2009) and visiting scholar at Helsinki University (since 2010).

e.8 Representative invited lectures: Saunders has given keynotes at University of Lille (2012), In

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Flanders Fields Museum, Ypres (2010), Université de Paris (2009), and Memorial de Caen (2008). Bentley has given for the European Society for the Prevention of Infectious Diseases (May 2012) Google Social Media Week (London), the Santa Fe Institute, the Royal Society of Arts, NESTA, the QualityCommons (Paris), and Wharton Business School. Gibson or Bentley have presented at London Anthropology Day since 2008. Heyd has given keynotes at Würzburg (Germany, 2009), Belfast (2010), Helsinki (Finland, 2010, 2011), Kiel (Germany, 2011), Durham (2011) and Halle (Germany, 2012). Hodos has addressed the British Institute at Ankara, the Anglo-Turkish Society (London). These are just examples.

e.9 Research refereeing: The majority of our staff have reviewed for AHRC. Robson Brown was on the NERC peer review college (2004-2007) and is an AHRC reviewer (2009-2013). Heyd has reviewed grants for national research councils in Switzerland, Austria, the Netherlands, Czechoslovakia, Hungary, Poland, Estonia and Luxembourg. Saunders has reviewed grants for the ESRC, National Geographic Society, the Heritage Lottery Fund and funders in Qatar and Belgium. Gibson Horton, Hodos and Bentley have reviewed for NSF in the USA and Social Sciences Research Council of Canada. Hodos has reviewed for British Academy and Israel Science Foundation. Bentley has refereed for the Leverhulme Trust. Most staff have refereed for prestigious journals, including *PNAS*, *Proceedings of the Royal Society B*, *Antiquity*, *American Antiquity*, *World Archaeology* and many other specialist journals.

e.10 Research recognition and awards: Hodos and Saunders were each awarded a Bristol University Research Fellowship for 2011-2012. Bentley was awarded Emerald Management Reviews Citation of Excellence in 2009 (for one of top 50 management articles of the year). Robson Brown and Ruth Wilcox of Leeds U. made EPSRC 'Project of the month' in Feb. 2011.

e.11 Media contributions: The Department has a long history of cast and presenters for TV programmes such as *Time Team*, *Coast*, and BBC programmes. Mark Horton, a *Time Team* veteran since the 1990s, has been a Presenter on BBC *Coast* since 2005 (including 2014 season). Alice Roberts, as honorary staff member in the Department (2009-2011), became a Professor of Public Engagement at Birmingham University following her work as a Presenter on *Time Team*, *Coast* and *The Incredible Human Journey* while at Bristol. Saunders media work includes BBC1's *The First World War from Above* (2010), History Channel's *Ancient Alexandria* (2010), National Geographic's *T.E. Lawrence and the Great Arab Revolt* (2011), Channel Five's *Alexander the Great's Lost Tomb* (2008). Department research has been covered by BBC, the *Times*, *Guardian*, *New York Times*, *Wired* magazine and world media such as *National Geographic Türkiye*. Bentley wrote a column for *New York Times* (2012).

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