

Wolfson Research Institute for Health and Wellbeing



Annual Report 2019

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Message from the Executive Director

Greetings and welcome to the 2019 Annual Report for the Wolfson Research Institute for Health and Wellbeing here at Durham University.

It has been another productive year for the fellows of the WRIHW. It has been our privilege to support their missions and tell their stories on the world stage. They have continued to change the world in which we live and outcomes from their research interact directly with human health and wellbeing. Highlights include our Physical Activity Special Interest Group who were involved in the development of the CMO's new physical activity guidance. They also contributed to the Scottish Parliament Inquiry Concerning Social Prescribing (August, 2019) and the NICE Quality Standard Consultation for Physical Activity: Encouraging Activity in the General Population (January, 2019). The results of the clinical trial evaluating the new Durham Reading and Exploratory (DREX) app from our Stroke special interest group show that it has demonstrable value in improving the visual behaviour of patients with visual loss after brain injury. There are many knock on quality of life effects too. From where we were even 5 years ago, with no treatment for visual impairment due to brain injury available, there is now a free downloadable app that patients can use in their own home to guide their own recovery. It's a cost effective and efficient solution to a chronic problem in our society.

As Basis (BABy Sleep Information Source), Durham Infancy and Sleep Centre launched new national guidance on infant sleep safety co-branded by Public Health England, UNICEF UK and Lullaby Trust. This new guidance recognises for the first time that parents and babies benefit from accurate information about bed-sharing safety, and uses our research to depict what safer bed-sharing guidance entails.

Our fellows continued to be acknowledged for their value to their research fields. For example, Stephen Burrell from CRIVA (Centre for Research Into Violence and Abuse) was awarded a prestigious ESRC fellowship to examine the role of businesses in violence prevention. Stephen is carrying out research and engagement activities to explore in more depth opportunities within the business sector to engage men and boys in building gender equality, shifting masculine norms, and preventing violence against women. Also, CRIVA Director Nicole Westmarland was awarded the COMPASS award in the USA for her work on Project Mirabal which has 'significantly guided and expanded efforts to protect survivors through advancing and evaluating accountable perpetrator intervention research and programming'.

Our Pain special interest group continues to bridge the gap between bench science, the humanities and social science. Notable activities include the development of the

GOTT (Gabapentin and Opioid Tapering Tool) developed in collaboration with local primary and secondary care professionals. This is in response to the knee-jerk reaction to address the apparent over-prescription of pain medication in our region despite our findings that this is linked to pain need. Patients and clinicians need alternatives and our Pain group is looking to use their evidence base to help in their development. Great strides have also been made in the En'light'en project to use light and art to reduce delirium in intensive care units.

We continue to work with our stakeholders and also our partners across the regions' ASHNs and HEIs and are proud to have a substantial role in the North-East and North Cumbria's NIHR Applied Collaboration Research (ARC) programme. Our ECRs continue to thrive via the leadership opportunities our Committee affords them as evidenced by a very successful fourth annual conference in June 2019. The fifth is currently being planned for June 2020.

I hope you find something of interest to you in the coming pages, and I believe you will stand in awe at the work you will read about that has been expertly put together by our Senior Officer Suzanne Boyd. I am sure you will agree, our health and wellbeing is in good hands.



Amanda Ellison

Professor Amanda Ellison

Meet the Wolfson Team

Professor Amanda Ellison

Executive Director



Amanda is a neuroscientist and Professor in the Psychology Department. Interested in the neural basis of behaviour, her research projects cover a broad spectrum of disciplines from medicine through psychology to physics. She has been active in the Wolfson community since 2002 and has been Executive Director since 2015.

In addition to being involved in the strategic development of the Institute, Amanda also sits on the Science Faculty Research Committee, is the Director of Impact for Psychology and is the director of the Cognitive Neuroscience Research Unit that seeks to bridge the gap between basic research related to how the brain works with effective rehabilitation paradigms when behaviour is affected by brain damage.

Amanda is passionate about academic communication and to this end, she writes popular science books and is frequently asked for comments by the media and to give after-dinner speeches.

Mrs Suzanne Boyd

Senior Officer and PA



Suzanne is the Senior Officer of the Wolfson Research Institute for Health and Wellbeing as well as PA to the Executive Director. Suzanne is responsible for the day-to-day running of the Institute, dealing with matters pertaining to HR, budget, event planning and organisation and supporting the SIGS and Centres. She is responsible for the Institute website and twitter feed, as well as supporting key Wolfson-related projects and grants. Suzanne supports the Fellowship of the Institute in a number of ways including creating websites and organising meetings and events.

Special Interest Groups

The Wolfson Research Institute for Health and Wellbeing supports a number of Special Interest Groups (SIGs). These are interdisciplinary groups of research active staff who share a common interest in a specific theme (e.g. climate change), methodology (e.g. randomised controlled trials) or specific disease (e.g. diabetes), but where there is no formal arrangement (e.g. research centre) to which their theme, methodology or disease already belongs. The aim of this scheme is to seed new enterprises with the potential to develop and become self-sustaining. We aim to support 6-8 groups each year with administrative support and funding where appropriate.

Reports from each Special Interest Group are available below.

Teesside Aneurysm Group

The Teesside Aneurysm Group was established in June 2016.

Under current best practice, patients with newly diagnosed unruptured aneurysms are either left untreated only to suffer from debilitating or fatal brain injury due to sub-arachnoid haemorrhage caused by aneurysmal rupture or are overtreated – based on whether their aneurysm is >7mm in size. Both come at great cost to the NHS (and wider economy) and has a significant impact on the patient and their family. We contend that such a narrow predictor of rupture is conservative at best or erroneous at worst.

Clinical decisions should be more holistic and patient centred. Not only aneurysm size, but its morphology, flow-dynamics, patient age, sex, co-morbidities and also psychosocial factors such as familial background, social status, education etc need to be considered. Only then will we have the ability to predict with greater certainty – the lifetime risk of rupture of a newly diagnosed unruptured aneurysm.

This project will create and validate a personalised holistic predictive model for the likelihood of rupture of a brain aneurysm. Our team of academics and neurosurgeons can each address aspects of these issues. Within a five-year timeframe we aim to have quantified the risk factors; built & validated the model and arrived at a means of providing clinicians with a tool that provides a lifetime risk of rupture for brain aneurysms.

In 2019, the Teesside Aneurysm Group continued its multidisciplinary approach towards an understanding of why some aneurysms rupture and some do not and presented its findings at two respected international conferences in Amsterdam and Dublin.

Our understanding of how the inflow and outflow vasulature affects risk of rupture is now statistically determined and we know which of these factors has the most predictive power over the subsequent rupture of the aneurysm.

The group is also actively collecting PPI data to establish the need for this research not least by quantifying the effect that aneurysms have on surviving individuals and their families. Colleagues in Engineering are looking at flow dynamics which may have an important role and those in computer science are developing a way to segment images to spot aneurysms in a more objective, efficient and inexpensive way. There may be commercialisation potential in this latter endeavours. Further socioeconomic analyses are also planned.

Two applications have been made to the NIHR Programme Grant for Applied Research however the programme leaders have struggled to cope with the scope of the project due to its novelty. In the coming year we will therefore apply for scientific aspects through BBSRC/MRC and social aspects through ESRC.

Smoking Special Interest Group

Purpose

The Smoking Special Interest Group (SSIG) was established in October 2010. It aims to use insights from the humanities and social sciences to develop a more nuanced understanding of the factors at play in tobacco production and use, and the many ways in which dependency on tobacco is manifest, with a view to supporting more effective tobacco control work locally, regionally, nationally and internationally.

Activities

Conference panels/papers

- **Jane Macnaughton, Andrew Russell, Tom Widger and Jed Stevenson** convened a panel titled 'Adding to the Air' for the Association of Social Anthropologists' annual conference 'Anthropological Perspectives on Global Challenges', Norwich September 4th 2019.
- **Andrew Russell** presented a tobacco-focussed paper in this panel, based on his WRIHWB small grant funded project 'Giving up tobacco – heritage and alternative livelihoods in former tobacco growing communities in Australasia' Paper title: Toxic legacies? Memories of chemical spraying among former tobacco growers in Australia and Aotearoa/New Zealand.

Funding Bids and Awards

Prof Janet Hoek (University of Otago and co-director, ASPIRE 2025) was successful in her application to the Institute for Advanced Studies (IAS) for a Fellowship and was an IAS Fellow in Michaelmas term 2019. She gave one seminar for the Anthropology of Health Research Group, one seminar at the IAS, and one public lecture titled 'Transitions to vaping in the land of the long white cloud' (Stephenson College, November 27th 2019) during her stay.

Outreach and Engagement

- **Andrew Russell** gave a public lecture 'Adding Smoke to Breath: Historical and Cross-Cultural Perspectives on Tobacco' as part of the 'Catch Your Breath' Durham exhibition activities, Palace Green Library, February 28th 2019.
- **Andrew Russell** visited Australia and Aotearoa/New Zealand in March/April 2019 for three weeks to undertake research for his WRIHWB small grant funded project 'Giving up tobacco – heritage and alternative livelihoods in former tobacco growing communities in Australasia'. During this time he visited around 30 former tobacco growers in three areas – in and around Myrtleford (Victoria, Australia); in and around Motueka (north of South Island, Aotearoa/New Zealand); and in and around Inglewood and other important former centres in southern Queensland and northern New South Wales, Australia. In each place he explored people's perceptions and actions with regard to their tobacco heritage. He also investigated the alternative livelihoods people had developed for themselves, and how successful these had been in the wake of the disappearance of tobacco.
- The SSIG has led to a successful Academy of Medical Sciences Global Challenges Research Fund networking grant, 'Network for the development of participatory methods to investigate current and alternative livelihoods with bidi workers in South India'. **Prof Sushil John** (Christian Medical College, Vellore, South India) was PI, and **Andrew Russell** (Durham University) was Col. The first meeting of core partners took place in Vellore in April 29-30 2019, and culminated in a major workshop held in Vellore in December 18-20 2019. Further information is in the CSJCA section of this report.
- **Andrew Russell** gave lecture 'Rethinking bidi production and use for sustainable lives and livelihoods', for a Symposium 'Good Health and Well-Being-SDG 3-Complementing Green Campus and Green Energy Initiative @PU', Pondicherry University, South India, April 30th 2019.
- **Andrew Russell** has continued to be an external sponsor to **Dr Upendra Bhojani**, who has been appointed Director of the Institute of Public Health in Bengaluru, South India. Upendra's five year Wellcome Trust India Alliance Fellowship is titled 'Deciphering an epidemic of epic proportion: the role of state and tobacco industry in tobacco control in post-liberalized India (1990-2017)'.
Upendra's five year Wellcome Trust India Alliance Fellowship is titled 'Deciphering an epidemic of epic proportion: the role of state and tobacco industry in tobacco control in post-liberalized India (1990-2017)'.
- **Prishanti Pathak** was appointed student intern to support the GCRF networking grant pilot research activities under the auspices of the Collingwood College, Durham 'Changemakers' scheme. As well as participating in the pilot research in July 2019, interviewing bidi workers in their homes and tobacco control activists working in the field, she has also developed the network website <https://sites.durham.ac.uk/rethinkingbidis/>.
- **Andrew Russell** gave a public lecture 'Tobacco: Shape Shifting Substance from

South America' as part of the 'Catch Your Breath' London exhibition activities, Royal College of Physicians, August 1st 2019.

- **SSIG members** participated in Celebrate Science festival as part of the Life of Breath (<https://lifeofbreath.org/>) exhibit, Palace Green, October 2019.
- **Andrew Russell** has been reappointed to the International Expert Review Group (IERG) of the UK Prevention Research Partnership (UKPRP), an alliance of UK charities, research councils and health departments pooling their resources to focus on the prevention of non-communicable diseases.

Publications

- Russell, A. (2019) *Anthropology of Tobacco: Ethnographic Adventures in Non-Human Worlds*, London: Routledge (ISBN: 9781138485143 (HB); eISBN 9781351050197). Due to Wellcome funding, this is an Open Access book, downloadable from <http://oopen.org/search?identifier=1004131>.

Pain SIG Report – Chronic pain: now and the future

GABAptenoid & Opioid Tapering Toolbox (GOTT): Dr Paul Chazot & Dr Frances Cole, Prof Kate Hampshire & Lucy Johnson ESRC NINE PhD student (Durham University Departments of Biosciences & Anthropology).



Persistent pain is a huge challenge, for the person with pain, their family or carers, their friends, their employer and certainly their GP and other health care practitioners. The medical model of care is limited or even redundant as pain scientists have shown a biopsychosocial approach is more effective to manage persistent pain. Persistent pain cannot be 'fixed or cured' at the moment. It needs a person-centred management to help people live better lives with it ("skills not pills"). Clinicians, especially GPs and pharmacists, realise the need to change how they work with people with persistent pain. To help, the *Live Well with Pain* GOTT team offers to improve CONFIDENCE of primary care clinicians to manage chronic pain with SAFER prescribing (www.livewellwithpain.co.uk; <https://my.livewellwithpain.co.uk/>). The project aims to design, develop and validate this practical toolbox of resources and differentiated training packages in real-life primary care settings. To achieve this, we have established a strong collaboration with Clifton Court GP practice, Darlington, to use as test case for this pilot study; we have follow up surgeries in CCGs locally and in Northern Ireland, plus other parts of the UK lined up. We plan to then expand this nationwide to a larger study, for future adoption by the NHS. Notably, we have an MOU with Gothenburg University, Sweden, with a view to facilitate adoption of this toolbox in Europe and beyond. Collaborators: Emma Davies Advanced Pharmacist

Practitioner in Pain Management, Swansea Bay University Health Board PhD Research Fellow, College of Human and Health Sciences, Swansea University; Eve Jenner (Specialist Physiotherapist in management of chronic musculoskeletal pain, West Midlands), co-authors of www.livewellwith pain website, and Jo Quinlan (Counsellor and Trainee CBT Therapist, NE), previously member of Durham & Darlington NHS Foundation Trust Pain Management Team), Dr Camilla Caiado (Department of Mathematics) and Professor Amanda Ellison (Director, Wolfson Research Institute of Health & Wellbeing). This will go live in March 2020. *Currently funded by the UKRI Strategic Priorities Fund (SPF) and ESRC IAAA fund.*

Novel Synthetic and natural product CNS-sparing drugs to combat chronic pain and pruritis: Drs Paul Chazot and Ilona Obara (now Newcastle University)

The global opioids market size was valued at US\$25.4 billion in 2018 and is projected to expand at a CAGR of 1.8% during the forecast period. Increasing prevalence of diseases that cause chronic pain, such as cancer, postsurgical pain, lower back pain, fibromyalgia, and arthritis, is driving the market. The USA leads the opioid market having some 65% market share in 2014; Europe has about 20% share. 8% UK population suffer from chronic neuropathic pain and 67% do not receive relief from their symptoms with current treatments. In the US, potentially 100 million people are currently experiencing some form of chronic pain. Demand for alternative pain relief is also expected to increase after the opioid use scandals that are becoming known in the USA, for example with Purdue Pharma, drive demand for safer and less addictive treatments.

1. ZPL-8680871 was originally developed by Pfizer (UK) for respiratory disease, and currently is owned by Novartis, who is our long-term industrial partner of the Pain SIG. ZPL-8680871 is selective for the H₃ histamine receptor (H₃R), and behaves as a reversible antagonist/inverse agonist. The uniqueness of this drug lies in its chemical and morphological structure that **provides restricted penetration to the central nervous system to minimise CNS-related adverse effects, the major reason for the serious issues with current chronic pain medications (opioids, GABA_A agonists)**. Thus, ZPL-8680871 was an ideal candidate to test our hypothesis that peripheral H₃R represent a novel and tractable target for the treatment of chronic neuropathic pain, originating within the somatosensory system. Importantly, our recent work (supported by an MRC Confidence in Concept award) showed for the first time that ZPL-868087 had a significant and selective long-lasting effect on attenuating mechanical hypersensitivity in a mouse model of neuropathic pain. This analgesic effect was blocked by a peripherally administered selective H₃R agonist, thus indicating the involvement of peripheral H₃R in the mediation of this antinociceptive effect.

2. Ticks have evolved over the last 70 million years to become masters at taking blood without their host noticing. One of the ways they achieve this is by secreting proteins which stop the host raising an immune response. Histacalin is one such protein which naturally occurs in the saliva of the *Rhipicephalus appendiculatus* tick. It works by binding to histamine with very high affinity and is therefore able to block the host's immunological response at the tick's feeding site. Nature is the best chemist and this protein has two amazing properties - it cannot pass the blood brain barrier and it has little effect on the immune system. We want to harness these properties to develop a treatment for chronic pain, acute & chronic itch (pruritis) and itchy skin. Therapeutically targeting the histamine system to treat pain and itch has been considered for some time, but has been unsuccessful because most compounds tested also enter the brain. Histacalin offers a second opportunity to target the histamine system without the problems caused by the drug entering the brain and without having to worry about a problematic immune response. In collaboration with Akari Therapeutics Plc (UK), we identified for the first time that Histacalin selectively blocked mechano-neuropathic pain following peripheral administration, and have also validated Histacalin for use in acute itch (pruritis). This suggested Histacalin may be suitable for a new daily therapeutic strategy with reduced side effects, at a dose range significantly lower than the systemic route of delivery. We are now looking for funding to complete pre-clinical studies to prepare Histacalin for clinical development across multiple indications.. Patent: WO2019110825A1) filed in 2018/2019, now at PCT stage. Drs Chazot and Obara Inventors. Ongoing work is in progress to take these two drug candidates to the clinic. Histamine, histamine receptors, and neuropathic pain relief. Obara I, Telezhkin V, Alrashdi I, Chazot PL. Br J Pharmacol. 2019 May 2. doi: 10.1111/bph.14696. Currently funded by an MRC Confidence in Concept award

Physical Activity Special Interest Group

Our interdisciplinary Physical Activity SIG comprises core members, both academic staff and postgraduate students, from the Departments of Sport and Exercise Sciences, Anthropology, Business, and Psychology. We welcome membership from other areas of the University where there is an interest in physical activity. We are aligned to the Fuse (<http://www.fuse.ac.uk/>) physical activity special interest group which comprises members from all five north east Universities.

The remit of the SIG is broad, but ultimately focused on physical activity as a lifestyle behaviour, generating and evaluating evidence for policy and practice concerning community-based lifestyle interventions. The SIG has multi- and inter-disciplinary expertise to address a range of complex questions from a variety of paradigm

perspectives. By working together with our public health, public sector and community partners (present and future) we strive to advance knowledge and understanding of physical activity in terms of what works, for whom and in what circumstances, and ultimately to create impact through policy change.

2019 has been a busy year for our SIG members and key activities are documented [here](#).

Exercise Referral – a new era (Emily Oliver and Caroline Dodd-Reynolds)

2019 saw a series of exercise referral-related publications for the SIG (see below), demonstrating our continuing work around how we can better design, prescribe and deliver more accessible and inclusive activity programmes. Work has been ongoing with sector-representative body UKActive, exploring their national dataset to ascertain whether local provision reflects of the communities that it serves, sociodemographically. An intern was funded by the new Durham Research Methods Centre to work on the project, led by Emily Oliver.

In addition, we have continued to strive to change the understanding of exercise referral and have covered some solid ground this year. A collaboration with partners in Scotland has led to the development of a first phase ‘taxonomy’ for re-classifying how we think about exercise referral. Our blog about this can be found [here](#). Of specific mention is our proposal to rename it, with a more encompassing ‘Physical Activity Referral’, which we hope will allow novel new schemes, self-referrals and social prescribing to be considered alongside more ‘traditional’ referral pathways. We hope that this will lead to changes in commissioning, delivery and evidence-generation. Notably, evidence has relied on systematic reviews and naturally policy is developed alongside. We aim to change this approach to encourage capture of localised services and to capture some of their successes within the evidence-base.

Physical Activity Lab, Anthropology

Research in the Physical Activity Lab in the Department of Anthropology continues to focus on everyday movement, especially walking, exploring in particular how interventions to promote everyday physical activity can be improved. The first paper from our work on walking groups in the north east was published, and we have submitted a further review paper on experiences of walking groups. The protocol paper for our National Institute of Health Research funded project on social prescribing was published and ethnographic research on social prescribing into walking and gardening groups led by Pollard is ongoing. As social prescribing is rolled out nationally within the NHS from 2019 onwards it is vital that we understand how it can operate effectively to increase everyday physical activity. Pollard, with Summerbell, and in collaboration with colleagues at the University of Cambridge, also received funding from the School for Public Health Research to use ethnographic

methods to explore children's experiences of travelling to school in areas undergoing regeneration and in a Healthy New Town. This work will inform policy on increasing active travel to school. We are delighted that Steph Morris is returning to the Physical Activity Lab to conduct this research. Finally, the first paper from Wagnild's PhD on sedentary time and risk of gestational diabetes was published.

Policy and guidelines

In 2019, we saw the publication of the [CMO's new physical activity guidance](#) which involved SIG members during both consultation stages. We also made written contributions to the Scottish Parliament Inquiry Concerning Social Prescribing (August, 2019) and the NICE Quality Standard Consultation for Physical Activity: Encouraging Activity in the General Population (January, 2019). Links to the SIG's contributions to PA policy guidance can be found on our webpage [here](#).

More related to critical examination of policy, Lindsey, Oliver and Dodd-Reynolds have a paper under review and a bid due to be submitted to ESRC end of February this year. Both consider weight-related policy implementation in schools (the funding bid also focuses on enactment) and are linked to previous WRI funding. We hope to provide final outcomes in due course.

Relevant Publications

- Hanson, C.L., **Oliver, E.J., Dodd-Reynolds, C.** & Allin, L. (2019). [How do participant experiences and characteristics influence engagement in exercise referral? A qualitative longitudinal study of a scheme in Northumberland, United Kingdom.](#) *BMJ Open* 9(2): e024370.
- **Dodd-Reynolds, CJ,** Nevens, L, **Oliver, EJ,** Finch, T, Lake, AA & Hanson, CL (2019). [Prototyping for public health in a local context: a streamlined evaluation of a community-based weight management programme \(Momenta\), Northumberland, UK.](#) *BMJ Open* 9(10): e029718.
- Hanson, CL, **Oliver, EJ, Dodd-Reynolds, CJ** & Kelly, P (2019). [We are failing to improve the evidence base for "Exercise Referral" How a Physical Activity Referral Scheme Taxonomy can help.](#) *British Journal of Sports Medicine*
- Morris SL, Guell C, Pollard TM (2019) Group walking as a "lifeline": understanding the place of outdoor walking groups in women's lives. *Social Science and Medicine* 238: 112489.
- Moffatt S, Wildman J, Pollard TM et al (2019) Evaluating the impact of a community-based social prescribing intervention on people with type 2 diabetes in North East England: mixed-methods study protocol. *BMJ Open* 9: e026826.
- Wagnild JM, Hinshaw K, Pollard TM (2019) Associations of sedentary time and self-reported television time during pregnancy with incident gestational diabetes and

plasma glucose levels in women at risk of gestational diabetes in the UK. *BMC Public Health* 19: 575.

Stroke Special Interest Group

Lead: Dr Alison Lane, Psychology Department

There are two main themes of ongoing research as part of the stroke special interest group; telerehabilitation of post-stroke visual impairments, and loneliness in stroke survivors.

Post-stroke visual rehabilitation:

Simple computer tasks have been demonstrated to be effective for the rehabilitation of visual impairments such as hemianopia (visual loss in one half of the visual field), which are a relatively common consequence of stroke. However, there are issues with this type of intervention such as the level of engagement and thus motivation required, the nature of the searching, and evidence of the transferability to wide-ranging everyday tasks. With help from the Wolfson Research Institute, researchers have conducted a proof of principle study investigating the potential application of virtual reality to the rehabilitation of post-stroke visual impairments. The study concluded that virtual reality can provide a means of assessing and training visual search which may be comparable to standard computer tasks, but provides a more engaging experience, and the opportunity to incorporate more naturalistic searching tasks and behaviours. For instance, when looking for shoes in the virtual scene participants could use contextual and experiential information to guide them as they would do in everyday life (e.g., looked towards the floor). This may assist with rehabilitation motivation and provide training that can easily be tailored to specific individual goals and activities. Importantly no adverse effects or problems associated with using virtual reality were observed. The next stages of this work are to try and develop a virtual reality training prototype.

Post-stroke loneliness:

The stroke SIG are continuing with research exploring emotional responses in stroke survivors. The work to date has involved a qualitative study exploring loneliness in stroke survivors and identifying themes that may unite people in their experiences. The framework developed has been used to generate a new measure of loneliness after stroke, and the next phase of research involves trying to establish the validity and reliability of such a tool, as well as trying to understand post-stroke loneliness on a larger scale.

Reports from Centres and Units

The Wolfson Research Institute for Health and Wellbeing contains a number of affiliated Research Units and Centres. Their activities over the past 12 months are highlighted in this section.

Centre for the History of Medicine and Disease (CHMD)

Director: Professor Holger Maehle

The CHMD's main event in 2019, supported by Arts & Humanities Faculty Centre Funding, was the workshop 'New Research in the History of Medicine and Science', held on 28 June 2019 in Grey College, Durham, bringing together researchers from the departments/schools of Modern Languages and Cultures, English, and Philosophy, and from Newcastle University. Presentations were given by Andy Byford (on juvenile delinquency in Imperial Russia), Siobhan Hearne (on venereal disease control in early 20th-century Russia), Roisin Laing (on child development theory in George Eliot's 'Mill on the Floss'), Lutz Sauerteig (on adolescence and sexuality in early 20th-century Germany), Nicol Ferrier (on Victorian mental asylums in Scotland); Yari Perez Martin (on 16th-century Spanish colonial surgery), Ivana Bicak (on early modern anatomy and poetry), Holger Maehle (on 19th-century Caesarean section and foetal craniotomy in Britain), Cheryl Lancaster (on mid-20th-century genetic research in Scotland), and Julia Tinland (on patient involvement in French medical research since 2002). A joint research seminar with the Archaeology department was held on 12 March 2019, with guest speaker Tomas Alusik, Charles University, Prague, presenting on medicine and health in Greek pre-history. Two fortnightly Reading Groups, bringing together postgraduates and staff from the departments of English and Philosophy, focused in 2018/19 on the history of psychoanalysis, discussing Jonathan Lear's book 'Freud' in Michaelmas and Epiphany Term, and Anthony Stevens' book 'Jung' in Easter Term. As part of a newly established research network partnership with the Cultural History Group of the KU Leuven, CHMD members Lancaster and Maehle participated in September 2019 in an international workshop on 'Medicine and Catholicism' in Leuven, Belgium.

Selected Publications:

- Andy Byford, *Science of the Child in Late Imperial and Early Soviet Russia* (Oxford University Press, forthcoming 2020)
- Matthew D. Eddy, "Family Notebooks, Mnemotechnics and the Rational Education of Margaret Monro", in: *Working with Paper: Gendered Practices in the History of Knowledge*, ed. by C. van Oertzen, C. Bittel and E. Leong (University of Pittsburgh Press, 2019), pp. 160-176, 269-272.

- Andreas-Holger Maehle, “Beyond Professional Self-interest: Medical Ethics and the Disciplinary Function of the General Medical Council of the United Kingdom, 1858-1914”, *Social History of Medicine* 33/1 (2020), pp. 41-56.
- Yari Perez Marin, “Empathy, Patients’ Needs, and Therapeutic Innovation in the Medical Literature of Early Viceregal Mexico”, in: *Geopolitics, Culture, and the Scientific Imaginary in Latin America*, ed. by M. del Pilar Blanco and J. Page (University of Florida Press, forthcoming 2020).
- Charlotte A. Roberts (with R. H. Steckel, C. S. Larsen, J. Baten) eds, *The Backbone of Europe. Health, Diet, Work and Violence over Two Millennia* (Cambridge University Press, 2019).

The Durham Infancy and Sleep Centre

Professor Helen L Ball

We began 2019 in our new home at Hilton Cottage, having rebranded the Parent-Infant Sleep Lab as the Durham Infancy & Sleep Centre (DISC) and also rebranded our outreach and impact work as Basis (Baby Sleep Info Source) with a [new website](#) launched November 2018. We were delighted to welcome Centre Manager Dr Charlotte Russell back to work in April following long-term sick leave, and to welcome two new postgraduate research students (Sophie Lovell-Kennedy & Fran Tugwell) who commenced in October 2019.

Research-wise 2019 saw the publication of a retrospective and prospective review of the Anthropology of Infant Sleep by two DISC members (Prof Helen Ball & Dr Cecilia Tomori) together with US colleague. In total we produced 5 new journal articles and 2 new book chapters listed below, field-tested and evaluated the intervention materials for our new project [Sleep, Baby & You](#), and embarked on a new research study in our Parent-Infant sleep lab [New-Mum-Sleep](#).



One of our biggest success stories in 2019 was the launch of new national guidance on infant sleep safety co-branded by Public Health England, UNICEF UK, Lullaby Trust, and ourselves as Basis. This new guidance recognises for the first time that parents and babies benefit from accurate information about bed-sharing safety, and uses our

research to depict what safer bed-sharing guidance entails. Materials to support the

new campaign, launched in March 2019, can be found here: [Professionals' Guide](#) and [Parents' Guide](#)



2019 saw us travelling the length and breadth of Britain delivering training workshops on infant sleep for Health Professionals in Perth, Derbyshire, Hartlepool, Leicester, Wigan, and Plymouth, and speaking at conferences and study days for health professionals in Blackburn, Durham, Glasgow, Grange-over-Sands, Newcastle, St Albans, and

York. Our speaking invitations also took us to deliver lectures to PhD students in Child Health in Copenhagen, to lactation consultants and breastfeeding specialists in Berlin and Budapest, and to biological anthropologists in Aguascalientes, Mexico, and Santa Fe, USA. We also launched a series of Basis Study Days at Hilton Cottage in Durham running 2 half-day workshops on Infant Sleep safety in the summer, and two more on Normal Infant Sleep in the autumn. After a very busy year we were delighted to be awarded ESRC IAA 'Flagship Funding' to fund our 2020 biennial infant sleep conference and celebrate 20 years of the Parent-Infant Sleep Lab.



Journal articles 2019

1. Ball HL, Tomori C, McKenna JJ. (2019) Towards and integrated anthropology of infant sleep. *American Anthropologist* 121:595-612 <https://doi.org/10.1111/aman.13284>
2. Marinelli, K. A., Ball, H. L., McKenna, J. J., & Blair, P. S. (2019). An Integrated Analysis of Maternal-Infant Sleep, Breastfeeding, and Sudden Infant Death Syndrome Research Supporting a Balanced Discourse. *Journal of Human Lactation*, 35(3), 510–520. <https://doi.org/10.1177/0890334419851797>
3. Ball, H. L. (2019). Conducting Online Surveys. *Journal of Human Lactation*, 35(3), 413–417. <https://doi.org/10.1177/0890334419848734>

4. Tomori, Cecilia & Boyer, Kate (2019). Domestic Geographies of Parental and Infant (Co-) becomings: home-space, night-time breastfeeding, and parent-infant sleep. *Annals of the American Association of Geographers* 109(4): 1172-1187.
5. Bartick, Melissa & Tomori, Cecília (2019). Sudden infant death and social justice: A syndemics approach. *Maternal & Child Nutrition* 15(1): e12652.

Book chapters 2019

1. Ball, Helen L. (2019) The Mother-Infant Sleep Nexus: night-time experiences in early infancy and later outcomes In *The Mother-Infant Nexus in Anthropology: Small beginnings, significant outcomes*. Edited by Rebecca Gowland. Sian Halcrow. Springer: London.
2. Ball, Helen L. (2019). Breastfeeding and infant sleep--what medical practitioners need to know. In *A Guide to Supporting Breastfeeding for the Medical Profession*. Brown, Amy & Jones, Wendy Routledge.

Centre for Death and Life Studies

Director Prof. Douglas J. Davies

This period went well, notably in terms of Archive acquisition and some funding for Durham University, as well as in wider participation of Centre members as this brief Report will describe.

Archive Resources and Grants

Perhaps the most significant development for 2019 concerns Archival resources. After a period of discussion and negotiation, and an approach from the UK Federation of Burial and Cremation Authorities (FBCA) involving Prof Davies visiting their headquarters in Wales, it was agreed that their archives would be transferred to Durham University Library. This took place in 2019 and involved a memorandum of agreement of acceptance. This material complements our already extensive Archive of the Cremation Society. The Federation has also made an accompanying gift of £5,000 to the University, through the Centre. It may be that an essay scholarship may also be provided by the FBCA for this or next year for an undergraduate essay related to the Archives. It is worth noting that one 2019 finalist's dissertation focused on the Cremation Society Archive and was awarded a very high First Class mark.

Following the application made to The Wellcome Trust on the topic of Pet-Death Owner-Wellbeing Project that was successful at the first level of application, the second-level application was submitted but, unfortunately was not successful. This had, of course involved a vast amount of work as Durham led a consortium of

colleagues from the Universities of Edinburgh (vet School), Manchester Metropolitan, Chester, and Bristol Universities. Durham seed-corn funding had been gained for this process of application. Prof. Sarah Atkinson had been especially committed to this project and thanks go to her for that. Once valuable outcome of that liaison has been that, at the request of Edinburgh University's Royal Dick Veterinary College, Prof Davies was invited, and agreed to allow his 45 minute, voice-over Power-point on Human Grief, to be used again for use in training veterinary surgeon students on their 2018-2019 Anthrozoology Module.

Undergraduate Bursary

The Cremation Society of Great Britain hosted a Durham undergraduate at its 2019 summer conference. This was a different student from the one mentioned above, and it followed a similar bursary in 2018 to yet another student.

Events

Durham Book Festival

The Centre hosted an event at the 2019 Durham Book Festival when Prof. Hilary Grainger (London University of the Arts, and Centre Special Professor), James Wallman (author of Penguin published *Stuffed*) and Douglas Davies reviewed and held a public discussion on Margareta Magnusson's *The Gentle Art of Swedish Death Cleaning (2017)*. Some 90 members of the public attended and it was deemed a very successful event in the Festival.

Centre members and publication

This year a wider range of colleagues at Durham and beyond have become Associates of the Centre, making its networked resource even more valuable. One member, now Dr Giorgio Scalici, who has helped organise meetings, and a Northern Bridge Doctoral candidate, has left us for a post-doctoral research fellowship at Lisbon University to work on death and music, a delightfully appropriate follow-on from his work at Durham between the departments of Theology and Religion, and Music. He was invited and took part in a conference organised by The Department of Philosophy at the University of Padua in 2019.

Prof. Davies FBA,

Gave an invited plenary address at the Joint Conference of the Burial and Cremation Authorities and The Cremation Society of Great Britain in the summer 2019, with a major focus on ecology-environmentalism. He was invited to join the Expert Panel of The Federation of Burial and Cremation Authorities and has been closely involved in events concerning alkaline hydrolysis of corpses.

Prof. Charlotte Roberts FBA, held an Honorary Professorship at Jilin University, Changchun, China, and co-organised and taught a 2 week summer school on palaeopathology for 18 students, from 10 countries. She also spoke in Beijing, Changchun, and Bradford, as well as at some local public-facing events. She published, amongst many other things, 'Life-long learning using archaeology in care homes'. *British Archaeology* July/August, 2019. Crespo F, White J, Roberts CA Revisiting the tuberculosis and leprosy cross-immunity hypothesis: expanding the dialogue between immunology and paleopathology. *Int J Paleopathology* 26:37-47. Also, 2019, co-produced a Massive open online course (MOOC) based on the Scottish Soldiers project; and a Science Museum film on leprosy for the permanent Medical Galleries (medical isolation), and co-organiser of workshop on treponemal disease, Paleopathology Association Annual Meeting, Cleveland, Ohio, USA.

Some of Prof. Roberts' 2019 publications include, 'Life-long learning using archaeology in care homes'. *British Archaeology* July/August. Crespo F, White J, Roberts CA Revisiting the tuberculosis and leprosy cross-immunity hypothesis: expanding the dialogue between immunology and paleopathology. *Int J Paleopathology* 26:37-47. Davies-Barrett A, Antoine D, Roberts CA 2019 Inflammatory periosteal reaction on ribs associated with lower respiratory disease. A method for recording prevalence from sites with differing preservation. *Amer J Phys Anthropology* doi: 10.1002/ajpa.23769. Afshar Z, Roberts CA, Millard, A, Gröcke D 2019 The Evolution of Diet During the 5th to 2nd millennium BC for the population buried at Tepe Hissar, North-eastern Central Iranian Plateau: The Stable Isotope Evidence. *J Archaeological Science Reports* <https://doi.org/10.1016/j.jasrep.2019.101983>

Prof. Roberts attended conferences in London, Bradford, Ohio, and Beijing.

Prof Geoffrey Scarre: 'How memorials speak to us', in Jeanette Bicknell, Jennifer Judkins and Carolyn Korsmeyer (eds): *Philosophical Perspectives On Ruins, Monuments, and Memorials* (New York and London: Routledge, 2019), pp.21-33.

Prof. Mark Sandy, "Strength in What Remains Behind": Wordsworth and the Question of Ageing', *Romanticism* 25.3 (2019): 261-70. Special Issue on 'Romanticism and Ageing;' guest-edited by David Fallon and Jonathan Shears.

Centre for Ethics and Law in the Life Sciences

Durham CELLS is a University Research Centre with membership spanning Durham Law School and other Departments of Durham University (including, Theology, Philosophy, Biology, Politics, Anthropology, Medicine and Health) and external organizations.

It has a particularly close association with the Ethics Institute of Utrecht University due to formal co-operative arrangements between Durham and Utrecht Universities, and is also active in the Matariki partnership to which Durham University belongs.

From January 2019 until December 2019 Durham CELLS was directed by Prof. Deryck Beyleveld and Prof. Shaun D Pattinson with the assistance of a PGR, Catarina Milo (all Law).

Durham CELLS has 30 full members (based in and beyond the Law School) and 9 associate members (PGR students). Durham CELLS receives £1,200 annually from the Law School. Currently this is being used to finance CELLS' Research Seminars and the Annual PGR Conference. This year the Conference was held jointly with the Law School's Centre for Human Rights in May 2019.

Intellectual Property modules (3rd Year LLB and LLM) and a Law and Medical Ethics module (3rd year LLB) are offered to Law UGs, and over 40 Law UGs 2019-2020 have chosen to do their 3rd year dissertation paper in Durham CELLS areas.

Durham Law School has designated Durham CELLS activities as a Tier One priority area, to be supported by several new appointments over the next few years. Three new appointments were made during 2019 and at least one more is planned for 2020.

The following papers were delivered at Durham CELLS' formal seminars this year:

- Dr Isra Black: 'Adolescent Capacity to Refuse Life-Prolonging Treatment.' 2 May 2019.
- Prof. John Dawson. 'House Arrest under a Community Treatment order and the Interpretation of mental Health Legislation. 21 October 2019.
- Dr Aisling McMahon. 'Biotechnology and Patent Licensing for "Ethical" Use.' 30 October 2019.
- Prof. Mary Donnelly. 'What Daddy Would Have Wanted: Law's Fictions and End of Life Care.' 13 November 2019.

The following is a list of CELLS relevant publications during the last year by members based in Durham.

Books

Pickles, C. & Herring, J. eds (2019). *Childbirth, Vulnerability and Law*. Routledge.

Sariola, S & Simpson, B (2019). *Research as Development Biomedical Research, Ethics, and Collaboration in Sri Lanka*. Cornell University Press.

Chapters in Books

- **Halliday, Samantha** (2019). 'Court-authorized Obstetric Intervention: Insight and Capacity, a Tale of Loss. In Pickles, Camilla & Herring Jonathan (eds). *Childbirth, Vulnerability and Law: Exploring Issues of Violence and Control*. Routledge. 178 - 203.

- **Halliday, Samantha** & Jarvis, Christine (2019). 'Using Harry Potter to Enhance the Critical Appreciation of Law or Questioning Whether the Rule of Law is as much a Reality as the Crumpled Horned Snorkack'. In Jarvis, Christine & Gouthro, Patricia (eds). *Professional Education with Fiction Media: Imagination for Engagement and Empathy in Learning*. Springer. 93 - 106.
- **Nicholson, Matthew** (2019). 'New International Legal Positivism: Formalism by Another Name?' In Siliquini-Cinelli, Luca (ed.) *Legal Positivism in a Global and Transnational Age*. Cham: Springer. **131**: 93-119.
- **Pickles, Camilla** (2019). 'Leaving Women Behind: The Application of Evidence-based Guidelines, Law, and Obstetric Violence by Omission'. In **Pickles, Camilla** & Herring, Jonathan (eds). *Childbirth, Vulnerability and Law: Exploring issues of Violence and Control*. In Routledge. 140-160.
- **Simpson, Bob** (2019). 'Managing the Pious Cadaver: Whole Body Donation and Anatomy in Sri Lanka.' In Van Ryn, Luke, Nansen, Bjorn, Gibbs, Martin & Kohn, Tamara (eds). *Residues of Death: Disposal Refigured*. Abingdon, Oxon: Routledge.
- **Van Leeuwen, Barend** (2019). 'European Standards and the Unfair Contract Terms Directive.' In Van Schagen, Esther & Weatherill, Stephen (eds). *Better Regulation in EU Contract Law*. Hart Publishing. 163-185.
- **Van Leeuwen, Barend** (2019). 'The Psychology of Judicial Co-operation: The Preliminary Reference Procedure as a Therapeutic Relationship.' In De Almeida, Lucila, Cantero Gamito, Marta, Durovic, Mateja & Purnhagen, Kai (eds). *The Transformation of Economic Law*. Hart Publishing. 317-335.
- **Yong, Ben** & Thompson, Louise (2019). 'What Do We Mean by Parliamentary Scrutiny of Brexit? A View from the House of Commons.' In Christiansen, Thomas & Fromage, Diane (eds). *Brexit and Democracy: The Role of Parliaments and Citizens*. Palgrave Macmillan.

Journal Articles

- **Begon, Jessica** (2019). 'Sexual Perversion: A Liberal Account.' *Journal of Social Philosophy* **50**(3): 341-362.
- **Beyleveld, Deyck** & Brownsword, Roger (2019). 'Punitive and Preventive Justice in an Era of Profiling, Smart Prediction and Practical Preclusion: Three Key Questions.' *International Journal of Law in Context* **15**(2): 198-218.
- **Brooks, Thom** (2019). 'Capabilities, Political Liberalism and Private Law.' *Archiv fuer Rechts- und Sozialphilosophie* **104**(4): 556-569.
- **Cave Emma** (2019). 'Selecting Treatment Options and Choosing Between Them: Delineating Patient and Professional Autonomy in Shared Decision-Making.' *Health Care Analysis*

- Devaney, S., Purshouse, C., **Cave, E.**, Heywood, R., Miola, J. & **Reinach, N.** (2019). 'The Far-Reaching Implications of Montgomery for Risk Disclosure in Practice.' *Journal of Patient Safety and Risk Management* **24**(1): 25-29.
- **Iliadou, Marianna** (2019). 'Surrogacy and the ECtHR: Reflections on Paradiso and Campanelli v Italy.' *Medical Law Review* **27**(1): 144–154.
- **James, Simon P.** (2019). 'Suffering and the Primacy of Virtue.' *Analysis* **79**(4): 605-613.
- **James, Simon P.** (2019). 'Madhyamaka, Metaphysical Realism and the Possibility of an Ancestral World.' *Philosophy East and West* **68**(4): 1116-1133.
- **Jamie, K., Oliver, E.J., Paterson, A. & Whittlesea, C.** (2019). 'Discussing Alcohol in Medicines Use Reviews: Experiences of Patients in a Community Pharmacy Context.' *International Journal of Pharmacy Practice* **27**(3): 318-321.
- **Lancaster, Cheryl** (2019). 'The History of Stem Cell Research: A Philosophical Review.' *Historical Studies in the Natural Sciences* **49**(4): 447.
- **Rees, S.W., Kind, V. & Newton, D.** (2019). 'Meeting the Challenge of Chemical Language Barriers in University Level Chemistry Education.' *Israel Journal of Chemistry* **58**(6-7): 470-477.
- **Saunders, Hannah** (2019). 'The Invisible Law of Visible Difference: Disfigurement in the Workplace.' *Industrial Law Journal* **48**(4): 487-514.
- **Song, Robert** (2019). 'Against Agonistic Liberalism: Milbank and Pabst's Relentless Pursuit of Radical Anglican Thomism.' *Studies in Christian Ethics* **32**(2): 271-277.

Research Projects

Durham CELLS members are involved in numerous research projects, including:

Law at the Frontiers of Biomedicine. **Professor Shaun Pattinson.** This project is funded by a **Leverhulme Trust Major Research Fellowship**, awarded to Professor Shaun Pattinson in 2019. It will run for 24 months from 1 October 2020. The funding covers a two-year lecturer appointment (to provide replacement teaching and administration cover) and the costs of attendance at conferences in connection with the project. The project examines the way that the current law is challenged by biomedical developments that will create, enhance or extend human life.

Obstetric Violence and the Law. **Dr Camilla Pickles.** This project started at the University of Oxford in 2017, under a **British Academy Postdoctoral Fellowship**. The project explores what 'obstetric violence' means, how it manifests in different contexts and it asks how the law should respond to this form of violence against women.

Making Decisions on Behalf of Young Children. In particular, **Prof Emma Cave** and **Dr Barend van Leeuwen**.

Durham Health and Social Theory Group

PUBLICATION HIGHLIGHTS

- Barbrook-Johnson, P., Schimpf, C., & Castellani, B. (2019) Reflections on the Use of Complexity-Appropriate Computational Modeling for Public Policy Evaluation in the UK. *Journal on Policy and Complex Systems*, 5(1), 55-70.
- Jamie K, Oliver E, Paterson A, Whittlesea C (2019) Discussing alcohol in medicines use reviews: Experiences of patients in a community pharmacy context, *International Journal of Pharmacy Practice*, 27 (3), 318-321.
- *McGowan, V., **Wistow, J.**, Lewis, S., Popay, J. & Bamba, C. (2019). Pathways to mental health improvement in a community-led area-based empowerment initiative: Evidence from the Big Local 'Communities in Control' study, England. *Journal of Public Health* <https://doi.org/10.1093/pubmed/fdy192>
- Yang, K. 2019. *Loneliness: A Social Problem*. Routledge.
- Moreira, T. (2019). Devising future populations: Problematizing the relationship between quantity and quality of life. *Social Studies of Science*, 49(1): 118-137. <https://doi.org/10.1177/0306312719829841>
- Rigby, B.P., Dodd-Reynolds, C.J., Oliver, E.J. (in press). Inequities and inequalities in outdoor walking groups: a scoping review. *Public Health Reviews*.
- Zhang X., **Clarke C.L.** & Rhynas S. (2019) Tensions in dementia care in China: an interpretative phenomenological study from Shandong province. *International Journal of Older People Nursing* 00:e12291. <https://doi.org/10.1111/opn.12291>

GRANTS

- Brian Castellani Co-I: [Component-Specific Air pollutant Drivers of Disease Risk in Early to Midlife: a pathway approach. \(DREaM\) PI: Ian Mudway \(King's College London\).](#) Project Start Date: 01/03/2019 Project End Date: 01/03/2021. £1.3 million
- Kimberly Jamie: Co-PI Antibacterial Clay: An interdisciplinary Institute for Advanced Studies grant bringing together researchers from across diverse disciplinary areas with a focus on the antimicrobial potential of clay in the context of the current antibiotic resistance crisis: <https://www.dur.ac.uk/ias/1920projects/sharples/>

- Laura Mazzoli Smith: Co-I, A Narrative Approach to Improve Citizens' Ageing and Well-being. PI: Prof Elena Lauroba Lacasa, University of Barcelona. Three years consecutive funding for this project from EIT Health. 01/01/2020-31/12/20: 227, 481 Euro; 01/01/19 - 31/12/19: 286,512 Euro; 01/01/18 - 31/12/18: 310, 500 Euro.
- Tiago Moreira: Co-I Material Imagination: Responsible Innovation in Living Materials Research, Royal Society APEX Awards, Dr. Margarita Staykova (Co-PI) 2019-20, £ 98,705.78
- Jonathan Wistow: Co-Lead on, Children Young People and Families, Work Programme 1: 'Examining the policy context for reducing health inequalities among children and young people', Grant totaling £348,120.33 (Durham £139,232, with Summerbell) from the NIHR SPHR 2, Jan 2019 to June 2020.
- *Beyond the Margins – Personal Development Programme for People Living with Dementia*. Charlotte **Clarke** (PI), Sarah **Keyes**, Julie Watson, Jane **Wilcockson**, Agnes Houston, Philly Hare. Awarded by Alzheimer's Society £340,000, 2019-21.
- *Staying Safe 'Going Out': Enacted Narrative Research* Charlotte **Clarke** (PI), Penny Woolnough, Heather Wilkinson. Awarded by Alzheimer's Society £73,000, 2017-20.

WEBSITE AND BLOG

We started a new blog and website, which can be found at: <https://www.durhamhealthresearch.co.uk/>

COMPUTATIONAL SOFTWARE

We have a new software available for free usage called COMPLEX-IT. COMPLEX-IT is a case-based, mixed-methods platform for social inquiry into complex data/systems, designed to increase non-expert access to the tools of computational social science (i.e., cluster analysis, artificial intelligence, data visualization, data forecasting, and scenario simulation). <https://www.art-sciencefactory.com/complexit.html>

WORKSHOPS AND EVENTS

As part of her IAS grant, Kim Jamie ran a day-long workshop focused on social theory and antimicrobial resistance. This workshop brought together researchers from across the UK and from diverse disciplinary backgrounds to discuss what contribution social theory can make to understanding addressing the current global antimicrobial resistance crisis: <https://www.durhamhealthresearch.co.uk/post/social-theory-and-antimicrobial-resistance-at-durham-institute-for-advanced-study>

MEDIA

During 2019, Kim Jamie's work on teenage mothers was featured across the BBC (Radio 4 Woman's Hour, Radio 5 Live, BBC Look North, BBC News website). In these interviews, Kim drew on findings from a Cancer Research UK project to deconstruct some of the stigma and myths around teenage pregnancy and motherhood. Kim is continue to work with the BBC on the Pregnant Teens podcast which followed three young women from Middlesbrough on their journey through teenage pregnancy, birth and into motherhood: <https://www.bbc.co.uk/programmes/p07r63bk/episodes/downloads>

Centre for Social Justice and Community Action

10th anniversary of CSJCA. “We have passed our 10th anniversary, and keep providing events, training and resources that have real purpose and value to practitioners and academics around the world, through maintaining a belief in the power of community action and social justice, however challenging the situations in which we find ourselves”, **Sue Shaw** (Chair, CSJCA)

Conferences & meetings: During 2019 we celebrated the 10th anniversary of CSJCA’s founding. The occasion was marked by a very successful international conference on 21 May 2019 on the theme of: ‘Top-down meets bottom up: negotiating the ethics in participatory action research’.

Centre directors and others attended many events where they presented and discussed the work of the centre. **Sarah Banks** facilitated a one-week module on ethics for the online ‘Knowledge for Change’ international training course for mentors in community-based participatory research in May and November 2019, and participated in a ‘masterclass’ on ethics at the European Association of Schools of Social Work Conference in Madrid, June 2019. **Gina Porter** gave a keynote on participatory methods for mobilities research with vulnerable groups at the Mobilities Congress, Berlin [sponsored by Friedrich Ebert Stiftung] in May 2019. Gina also organised a workshop in Malawi in August 2019 with head teachers, alongside associated discussions with the Ministry of Education about introducing guidelines for responsible phone use in schools, based on findings from previous ESRC-funded study into youth and mobile phones in Africa.

Participatory Action Research Postgraduate Forum: **Andrew Russell**, along with **Wang Yi** and **Wendy Gill** (Sociology postgraduate researchers attached to CSJCA), have reinvigorated the termly Postgraduate Forum, supported by the Centre for Academic and Researcher Development.

Visitors: International visitors to the Centre during 2019 included: **Pradeep Narayanan** and **Anusha Chandrasekharan** (Praxis, India), **Prof Charlotte Loppie** (University of Victoria, Canada) and **Sherri Pooyak** (Canadian Aboriginal AIDS Network), who attended for the CSJCA 10th anniversary conference and for a two-day workshop in May. **Prof María Jesús Úriz Peman** (Department of Social Work, Public University of Navarre, Spain), was a visiting research fellow during October-December 2019, researching ethics in social work and giving a seminar titled 'Ethical dilemmas in social work in Spain' for the Communities and Social Justice Research Group.

Training events, seminars and workshops in Durham

- 21st January, 2019, *'I'm just no good': the internalisation of degradation for women seeking asylum in Britain, Denmark and Sweden*. Public lecture, Victoria Canning, University of Bristol.
- 8th February, 2019, *Postgraduate Forum on Participatory Research Methods*, Durham University, facilitated by Andrew Russell, Wendy Gill and Wang Yi.
- 22nd March, 2019, *Developing Policy and Practice through Participatory Research*, facilitated by Andrew Orton.
- March, 2019, workshop with *Eurodiaconia*, a European network of Christian social welfare agencies, exploring dilemmas relating to researching their work, facilitated by Andrew Orton.
- 10th May, 2019, *Postgraduate Forum on Participatory Research Methods*, Durham University, facilitated by Andrew Russell, Wendy Gill and Wang Yi.



- 21st May, 2019, *Top-down meets bottom up: Negotiating ethics in participatory action research (PAR) for health and social well-being*, Centre for Social Justice and Community Action 10th Anniversary Conference, organised by Sarah Banks, Tian Cai, Wendy Gill, Helen Casey, Wang Yi.
- 11th -12th July, 2019, *Participatory action research: theories, methods and challenges*, Two-day course for doctoral students and members of community

organisations, organised through Northern Ireland and North East Doctoral Training Programme (NINEDTP) and facilitated by Sarah Banks (Durham University), Mary Brydon-Miller (University of Louisville, USA) and others.

- 18th November, 2019, *Fostering Solidarity in Challenging Times: Exploring Ethical and Political Issues for Participatory Action Research*. Annual conference of CSJCA, organised by Sui-Ting Kong, with keynote speaker Prof Paul Routledge, Leeds University.
- 11th December, 2019, *Postgraduate Forum on Participatory Research Methods*, Durham University, facilitated by Wendy Gill and Wang Yi.

Selection of current research projects

- ***Top-down meets bottom up: negotiating the ethics in participatory action research (PAR) for health and well-being:*** £ 10,251 grant from Wolfson Research Institute for Health and Wellbeing was awarded to Sarah Banks, Sui-Ting Kong, Andrew Orton and Andrew Russell for a pilot project, January to July 2019.
- ***Youth engagement and skills acquisition within Africa's transport sector - promoting a gender agenda towards transition into meaningful work:*** Gina Porter received funding for this ESRC Global Challenges Research Fund (GCRF) education and skills research project, Dec 2018 – Nov 2021. Dr Claire Dungey, researcher on the project, has been working on the training of, and ongoing support to, young unemployed women as community peer researchers in three study sites - Tunis, Abuja and Cape Town. In December 2019, Claire Dungey presented at Women and Transport Africa conference in Addis Ababa on 'Peer research as a method for mobilities research with women and other vulnerable groups'.
- ***'Protest from the Margin': Solidarity in Hong Kong's anti-extradition law protests,*** Sui-Ting Kong commenced a project in December 2019 to understand how protesters from different political factions develop a sense of solidarity to maintain the momentum of the democratic movement in Hong Kong. Co-Investigators are Sik-Ying Ho (The University of Hong Kong) and Stevi Jackson (University of York).
- ***Network for the development of participatory methods to investigate current and alternative livelihoods with bidi workers in South India,*** Andrew Russell, working in collaboration with Prof Sushil John of the Low Cost Effective Care Unit, Christian Medical College, Vellore in the southern Indian state of Tamil Nadu, started a project in April 2019 funded by an award from the Global Challenges Research Fund. A workshop in December, attended by 33 bidi workers and others,

was facilitated by CSJCA steering group member and creative facilitator, Mary Robson.

- **Limits of Solidarity? Ethics in Christian Social Welfare Practice**, Uppsala University/Durham University seedcorn grant, €15,000 awarded to Andrew Orton, with partners in Sweden, Czech Republic and Germany.
- **Do traditional youth work organisations hold the key to sustainability for 21st century youth provision? Lessons from The Guide Association**, Wendy Gill, Sociology PhD, is currently undertaking a participatory project with a group of young women involved in Girlguiding in NE England. Wendy facilitated a one-day workshop at Durham University Sociology Department in April, exploring and identifying their research project. In October, they conducted their research as part of a residential camp activity, interviewing and gathering data from 20 Guides.
- **Exploring the interplays of the foreign organization and the local agenda in community development: a case study of a Chinese organization's practice in Mathare, an informal settlement in Nairobi, Kenya**, Wang Yi, a Sociology PhD student, is undertaking her second fieldwork involving action research in Nairobi.

Selection of publications

- Abma, T., **Banks, S.**, Cook, T., Dias, S., Madsen, W., Springett, J., Wright, M. (2019) *Participatory Research for Health and Social Well-being*, Switzerland, Springer.
- **Banks, S.** & Westoby, P. (eds) (2019) [*Ethics, equity and community development*](#), Bristol, Policy Press.
- [Lenette, C.](#), [Stavropoulou, N.](#), [Nunn, C.](#), [Kong, S T](#); [Cook, T.](#), [Coddington, K.](#), [Banks, S.](#) (2019) Brushed under the carpet: Examining the complexities of participatory research, *Research for All*, 3 (2) pp. 161-179, open access, <https://doi.org/10.18546/RFA.03.2.04>
- **Orton, A.** & Barclay, D. (2019) 'Why networks matter in faith-related community development work: Learning from diverse Christian responses to debt in England', *Community Development Journal*, open access, <https://academic.oup.com/cdj/advance-article/doi/10.1093/cdj/bsz002/5307807>
- **Porter, G.**, Hampshire, K., Abane, A., Munthali, A., Robson, E., de Lannoy, A., Tanle, A., Owusu, S. (2020) Mobile phones, gender and female empowerment in sub-Saharan Africa: studies with African youth, *Journal of Information Technology for Development*, 26(1), pp. 180-193, open access, <https://www.tandfonline.com/doi/full/10.1080/02681102.2019.1622500>
- **Porter, G.**, Hampshire, K., De Lannoy, A., Bango, A., Munthali, A., Robson, E., Tanle, A., Abane, A., Owusu, S. (2018) Youth livelihoods in the cell phone era:

perspectives from urban Africa, *Journal of International Development*, 30 (4), pp. 539-558.

- **Russell, A.** (2019) *Anthropology of Tobacco: Ethnographic Adventures in Non-Human Worlds*, London: Routledge. Open Access, <http://open.org/search?identifier=1004131>

Anthropology of Health Research Group

Introduction

The Anthropology of Health Research Group (AHRG) aims to act as a bridge between aspects of biological and social anthropology pertaining to health and wellbeing, community medicine, evolutionary medicine, social epidemiology and public health. It works locally, regionally, nationally and internationally. It offers an interdisciplinary forum for the anthropological study of health and illness, where local and international health issues are discussed, and a range of impact and outreach activities delivered. The group fosters the development of research students, oversees the very successful MSc in Medical Anthropology, builds affiliations with health professionals, and promotes the translation of anthropological research into health policy. It hosts seminars and workshops, promotes research collaborations, and runs both laboratory and community-based research projects. Many staff and students (as Wolfson Fellows and Postgraduate Associates respectively) have benefitted from small grants offered as seed awards for larger research grants. You can read more about the work of the AHRG on its website - www.dur.ac.uk/anthropology/research/health/. Meanwhile, some of the many achievements of members of the AHRG in 2018-19 are highlighted below.

A selection of activities in 2019

Dr Nasima Akhter successfully completed an ESRC Impact Acceleration Account funded project 'Scoping exercise for building partnership and exploring NGO data availability and access in accelerating developmental impact in Bangladesh & Ethiopia' (February-March 2019). This reviewed potential datasets, and engaged UK academics and representatives from Bangladesh and Ethiopia in an interactive discussion to prioritise agendas related to health, nutrition and wellbeing to promote SDG goals 2,3,5,10. This helped securing a Durham Doctoral Studentship funded PhD studentship 'The Effects of Nutritional vs Social Inequalities on Prevalence of Stunting in Bangladesh' for the 2019-2021 session, jointly supervised by **Dr Akhter** and **Prof Gillian Bentley**.

Dr Hannah Brown has co-designed a resource for researchers and responders on Lassa Fever which highlights useful social science insights and research. It was launched earlier in 2019 with the Nigeria Centre for Disease Control – see <https://lassafever.info/>. She was also successful in securing a Wellcome Trust PhD Scholarship in Medical Humanities (as lead supervisor) ‘A comparative investigation of visual representations of tropical diseases in early twentieth century Malawi and Sudan’, worth £130,381, and was co-I on an ELHRA Research in Humanitarian Crisis grant ‘Humanizing the response to Ebola in DRC’ (£222,371 with £6881 to Durham).

Dr Adetayo Kasim and **Prof Kate Hampshire** got a grant of £95K from Save the Children to do some work on effectiveness of community health-worker programmes in LMICs. It will follow on from their current MRC-funded project on mobile phone use by community health workers.

Dr Tessa Pollard co-organised a very well-attended symposium at the International Society for Physical Activity and Health conference in London in October 2018 on ‘Physical Activity and Social Inequality: Using Ethnography to Make Disadvantaged Voices Heard and Inform Interventions’, at which she presented her Physical Activity laboratory’s research on walking groups that had been funded by a Wolfson Small Grant.

Prof Andrew Russell was co-I on a successful Academy of Medical Sciences GCRF Networking Grant proposal with P-I Prof Sushil John (Christian Medical College, Vellore) ‘Network for the development of participatory methods to investigate current and alternative livelihoods with bidi workers in South India’ (£24,945). He also used a Wolfson small grant of £2615 to undertake research with former tobacco growers in Australia and Aotearoa/New Zealand, findings from which were presented as a paper ‘Toxic legacies? Memories of chemical spraying among former tobacco growers in Australia and Aotearoa/New Zealand’ in a convened panel ‘Adding to the Air’ at the ASA Conference in Norwich on September 4th 2019.

Prof Bob Simpson and **Dr Mihirini Sirisena**, received seed corn funding [£3749] for pilot work in relation to a project entitled: Understanding Medical Migration: An anthropological case study of Sri Lankan doctors working in the UKNHS. The project was specifically aimed at developing a grant proposal for a project that would explore the integration of international medical graduates into the NHS UK and an exploration of the role of hidden cultural curricula in their integration and subsequent practice.

Dr Jed Stevenson organised workshops in Addis Ababa, Ethiopia, to engage with stakeholders of a large hydroelectric dam that threatens the livelihoods and food security of downstream communities. He is co-I on a £670K project beginning in 2020

getting our children out of this bidi rolling profession” exhorted one of the bidi rolling participants. Mr Paul Dass (ProVISION, Bengaluru) is a physiotherapist who has set up a papier maché training social enterprise. Following his presentation at the workshop he has been invited by Sushil John to run periodic alternative livelihoods training sessions for bidi and other disadvantaged workers at the Low Cost Effective Care Unit starting in February 2020.

A selection of our publications 2019

- **Brown, Hannah** (2019) Complexity, Anthropology, and Epidemics, in Keck, Kelly and Lynteris, eds. *The Anthropology of Epidemics*, Abingdon: Routledge.
- **Brown, Hannah** and Alex Nading, eds. (2019) Humans Animals and Health Special Issue, *Medical Anthropology Quarterly* 33(1).
- Hodbod, J., **Stevenson, E.G.J.**, Akall, G., Akuja, T., Angelei, I. ... + 12 other authors. (2019). Socio-ecological change in the Turkana Basin: A synthesis of current developments. *Ambio* 48(10): 1099-1115.
- Moffatt, Suzanne, Wildman, John, **Pollard, Tessa M**, Penn, Linda, O’Brien, Nicola, Pearce, Mark S & Wildman, Josephine M (2019). Evaluating the impact of a community-based social prescribing intervention on people with type 2 diabetes in North East England: mixed-methods study protocol. *BMJ Open* 9(1): bmjopen-2018-026826.
- **Morris, Stephanie**, Guell, Cornelia & **Pollard, Tessa M**. (2019). Group walking as a “lifeline” Understanding the place of outdoor walking groups in women's lives. *Social Science & Medicine* 238: 112489.
- **Russell, A.** (2019) *Anthropology of Tobacco: Ethnographic Adventures in Non-Human Worlds*. London: Routledge. Available as an open access publication - <http://oopen.org/search?identifier=1004131>.
- Sariola, S. and **Simpson B.** 2019 *Research as development: clinical trials, collaboration and bioethics in Sri Lanka*. Cornell: Cornell University Press.
- Weaver, L.J., Taddesse, Y., **Stevenson, E.G.J.**, and Hadley, C. (2019) “I want variety!”: Dietary variety as aesthetic pursuit, social signal, and nutritional vehicle in Brazil and Ethiopia. *Human Organization* 78(2): 122-132
- **Wagnild, Janelle M.**, Hinshaw, Kim & **Pollard, Tessa M**. (2019). Associations of sedentary time and self-reported television time during pregnancy with incident gestational diabetes and plasma glucose levels in women at risk of gestational diabetes in the UK. *BMC Public Health* 19(1): 575.

Cognitive Neuroscience Research Unit

The CNRU continues to be a node both within the Psychology department and across the University for the examination of the neuroscientific basis of behaviour. There are three clear routes by which CNRU contributes:

- 1) Understanding the neurological mechanisms of behaviour
- 2) Understanding how behaviour changes following neurological damage
- 3) Designing interventions that have an evidence base in 1) to mitigate the effects of 2).

Our technical expertise is such that we can apply a number of cutting edge methodologies to our enquiries including transcranial magnetic stimulation, transcranial electrical stimulation, functional magnetic resonance imaging, electroencephalography, eye tracking and physiological recording. In addition to attracting significant grant income, and continuing to publish in high impact journals, we have been focused this year on developing our industrial links and attracting commercial income.

CNRU now houses a diverse number of interests, ranging from trustworthiness judgements through brain body computer interfacing and clinical interventions following stroke and supranuclear palsy. Such investigations mean that CNRU has a value to current health challenges such as healthy ageing, multimorbidity and polypharmacy. This rich bed of investigations is both a reputational source via the many conference presentations we give and an exceptional resource for our undergraduates, PGTs, and PGRs. The CNRU currently supervises 8 PhD students and has four PDRAs.

- S Dunne, A Ellison, DT Smith (2019) The Limitations of Reward Effects on Saccade Latencies: An Exploration of Task-Specificity and Strength *Vision* 3 (2), 20
- C Bailey-Ross, AM Beresford, DT Smith, C Warwick (2019) Aesthetic appreciation and Spanish art: insights from eye-tracking *Digital Scholarship in the Humanities* 34 (Supplement_1), i17-i35
- DT Smith, N Archibald Visual search in progressive supranuclear palsy (2019) *Processes of Visuospatial Attention and Working Memory*, 305-324

Durham Centre for Imaging (DCI)

In 2017 – 2018, Durham Centre for Imaging has been working as a premier resource for the academy of Durham University.

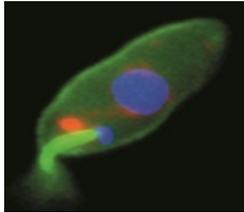
The Centre is equipped with a 3Tesla functional magnetic resonance scanner which is housed at James Cook University Hospital in Middlesbrough. Not only does this scanner provide high resolution images of the brain, it also has the potential to scan other parts of the human body as well as constructed phantoms and archaeological artefacts. In addition, the Centre has the capacity to provide high quality auditory input as well as collecting physiological data. Real time scanning analysis is also possible allowing for neurofeedback protocols.

As a result of this potential, the management committee has strengthened its links with the WRIHW and are developing collaborations across the University. We have welcomed a co-director from research in the form of Dr Karen Hind from the Department of Sport and Exercise Sciences and have added DXA scanning to our arsenal. In addition our investigations of human behaviour and their neural substrates, this year, we have welcomed collaboration from Sunderland University, media exposure in the form of filming for the BBC OUCH! Series, and have achieved an industry contract for research for Channel 4.

Our members continue to attract UKRI funding and publish and present their work widely.

- Kedia G, Mussweiler T, Adam R, Ischebeck A, Ihssen N, Linden DEJ. (2019) [So pretty! The neural correlates of self-other vs familiar-other attractiveness comparisons.](#) Soc Neurosci. 2019 Feb;14(1):41-52. doi: 10.1080/17470919.2017.1397544. Epub 2017 Nov 10.
- Yu, X.L., Thaler, L., Baker, C.J., Smith, G.E. & Zhao, L.S. (2018). [Human echolocation: 2D shape discrimination using features extracted from acoustic echoes.](#) *Electronics Letters* 54(12): 785-787.
- Cavina-Pratesi, C., Connolly, J.D., Monaco, S., Figley, T.D., Milner, A.D., Schenk, T. & Culham, J.C. (2018). [Human neuroimaging reveals the subcomponents of grasping, reaching and pointing actions.](#) *Cortex* 98: 128-148.

Centre for Global Infectious Diseases



The Filling the Void Special Interest Group evolved into an established University research centre, The Centre for Global Infectious Disease (CGID), in 2018. With the continued support of the Wolfson Research Institute CGID has carried forward its mission to drive a research and training agenda aimed at providing solutions for pressing issues in global infectious diseases, including antimicrobial resistance. In this we reach outside the confines of Durham University and count the Newcastle Fungal and Evolutionary Parasitology Groups amongst our number. This adds depth and capacity, as well as providing us with a truly regional base.

Reflecting this the 2019 CGID annual meeting was held in Newcastle on July 12, 2019. This meeting, which brought together ~50 researchers, showcased the work of early career researchers (ECRs), as well as benefiting from external contribution from Helen Price (Keele) sharing her work on the sociology of global disease. Even at this early stage, this meeting has primed at least two research initiatives between Durham and Newcastle.

Importantly, CGID continues to support ERCs, primarily PhD students, to make research visits to partner laboratories and attend and present at research conferences, in 2019 the following PhD student activities were funded:

- 2 week secondment to the University of York to receive training in gene editing technology
- Attendance at the British Society for Parasitology Spring Meeting in Manchester

All our research and training activities are underwritten by a high-quality seminar programme involving external speakers involved in leading edge research, in 2019 the following academics were funded and hosted:

- Brian Suarez-Mantilla (University of Georgia), March 18: Novel insights on phosphate-regulated processes in the protozoan parasite *Trypanosoma cruzi*
- Helen Price (Keele), July 12: Tackling stigma and improving the patient journey for people with cutaneous leishmaniasis
- Alvaro Acosta-Serrano (Liverpool School of Tropical Medicine) October 17, 2019: Celebrating diversity and inclusion: human skin microbiome and treatment response in cutaneous leishmaniasis

Selected Publications 2019

Tusting LS, Bisanzio D, Alabaster G, Cameron E, Cibulskis R, Davies M, Flaxman S, Gibson HS, Knudsen J, Mbogo C, Okumu FO, von Seidlein L, Weiss DJ, **Lindsay SW**,

Gething PW, Bhatt S. (2019) Mapping changes in housing in sub-Saharan Africa from 2000 to 2015. *Nature* 568:391-394

Melatti C, Pieperhoff M, Lemgruber L, **Pohl E**, Sheiner L, Meissner M. (2019) A unique dynamin-related protein is essential for mitochondrial fission in *Toxoplasma gondii*. *PLoS Pathogens* 15:e1007512.

Blower TR, Bandak A, Lee ASY, Austin CA, Nitiss JL, Berger JM. (2019) A complex suite of loci and elements in eukaryotic type II topoisomerases determine selective sensitivity to distinct poisoning agents. *Nucleic Acids Research* 47:8163-8179.

Major P, Sendra KM, Dean P, Williams TA, Watson AK, Thwaites DT, Embley TM, **Hirt RP**. (2019) A new family of cell surface located purine transporters in Microsporidia and related fungal endoparasites. *Elife* 8:e47037

Day AM, McNiff MM, da Silva Dantas A, Gow NAR, **Quinn J**. Hog1 Regulates Stress Tolerance and Virulence in the Emerging Fungal Pathogen *Candida auris*. *mSphere* 2018, **3**(5), e00506-18.

Behavioural Endocrinology and Physiology Lab Wolfson Report

Professor Gillian Bentley and Professor Ann MacLarnon

Following the closure of the Durham Endocrinology and Ecology Lab at the Wolfson Research Institute on Queen's Campus in 2016, a new laboratory has been under construction in the Dawson Building in Durham that will be able to replicate and extend the services and research that we formerly undertook at Queen's Campus Stockton. The new lab is called the BEP lab (Behavioural Endocrinology and Physiology) and extends its remit to non-human primates. The new lab is directed by Professors Gillian Bentley and Ann MacLarnon and is managed by Val Affleck who was hired into her role in 2019. To date, the new lab has been built from scratch after renovating suitable rooms in the Dawson Building to permit wet lab space, and we are still testing, and purchasing equipment while establishing our new protocols. The Lab has the capability of assaying a range of steroid and other hormones, ranging from reproductive to stress, and can perform assays in many different mediums including blood, saliva, urine, faeces, and hair. We have storage capacity at both -80 degrees and -20 degrees in freezers that are fully alarmed in case of electrical emergencies with back-up systems at hand. We are happy to collaborate across campus with other researchers who may wish to examine hormone levels as part of their projects. Please do get in touch if you are interested.

Centre for Research into Violence and Abuse (CRiVA)

2019 was another successful year for the Centre for Research into Violence and Abuse (CRiVA)! We held the following well attended events:

- January - Harriet Wistrich (Centre for Women's Justice) - *How the criminal justice system fails victims and punishes survivors, and what feminist lawyers can do about it.*
- January - Dr Victoria Canning (University of Bristol) - *'I'm just no good': the internalisation of degradation for women seeking asylum in Britain, Denmark and Sweden.*
- June - Dr Jessica Eaton, VictimFocus Learning Academy Durham
- June - Professor Nicola Gavey (University of Auckland, NZ) - *Unpicking the 'Myth of Masculinity' – Next Steps for Sexual Violence Prevention?*
- June - Associate Professor Nicola Henry (RMIT, Australia) - *Visuality, Criminality and Image-Based Sexual Abuse Perpetration*
- July - Dr Bianca Fileborn - *#MeToo - Contesting the boundaries of sexual violence?*
- October - Advocacy After Fatal Domestic Abuse (AAFDA) *Information, Networking and Learning Event.*
- October - Dr Kate Farhall (RMIT, Australia) *Everyone knows your business! Understanding the workplace-domestic violence nexus outside of large cities.*
- October - Leandro Ayres Franca (Faculdade Estácio Rio Grande do Sul, Brazil) *The non-consensual sharing of intimate images in Brazil.*

Some of our notable publications were:

- Bows, H. (2018) 'Domestic Homicide of Older People (2010-2015): A comparative analysis of intimate-partner homicide and parricide cases in the UK'. *British Journal of Social Work*.
- Burrell, S.R. & Flood, M. (2019). Which feminism? Dilemmas in profeminist men's praxis to end violence against women. *Global Social Welfare* 6(4): 231-244.
- Downes, N. Kelly, L. & Westmarland, N. (2019). 'It's a work in progress' men's accounts of gender and change in their use of coercive control. *Journal of Gender-Based Violence* 3(3): 267-282.
- Roberts, N., Donovan, C. & Durey, M. (2019). Agency, Resistance and the Non-'Ideal' Victim: How women deal with sexual violence. *Journal of Gender Based Violence* 3(3): 323-338.

- McGlynn, Clare & Westmarland, Nicole (2019). Kaleidoscopic Justice: Sexual Violence and Victim-Survivors' Perceptions of Justice. *Social and Legal Studies* 28(2): 179-201.
- McGlynn, Clare & Bows, Hannah (2019). Possessing Extreme Pornography: policing, prosecutions and the need for reform. *Journal of Criminal Law* 83(6): 473-488.

Awards



In November, Professor Nicole Westmarland, CRiVA Director, was awarded the COMPASS award in the USA for her work on Project Mirabal which has 'significantly guided and expanded efforts to protect survivors through advancing and evaluating accountable perpetrator intervention research and programming'.

Featured research: Dr Stephen Burrell was awarded a prestigious fellowship to examine the role of businesses in violence prevention

Dr Stephen Burrell was recently awarded an ESRC Postdoctoral Fellowship to build on the impact of his PhD research, which investigated primary prevention work with men and boys to end violence against women and girls in England. With this one-year fellowship, Stephen is carrying out research and engagement activities to explore in more depth opportunities within the business sector to engage men and boys in building gender equality, shifting masculine norms, and preventing violence against women.

Celebrating our year!

We ended the year with an excellent Christmas meal and team-building activity - axe throwing!



Early Career Researchers

As the Wolfson Research Institute for Health and Wellbeing (WRIHW) moves into its 17th year of existence, it does so with a renewed focus on the importance of nurturing its early career research (ECR) community. Our ECR community mirrors the interdisciplinary commitment of the WRIHW, with PhD students in anthropology illuminating a brighter side to Ayahuasca tourism in South America, peers in bioscience ironing out some truths about dementia, and a wide variety in-between. Improving health and wellbeing is not restricted to a particular academic discipline, and neither are we.

The main goals of the ECR committee are as follows:

- To increase the sense of community between ECRs within the WRIHW
- To increase the visibility of ECRs within the WRIHW, and to wider audiences
- To offer ECRs within the WRIHW opportunities to develop their research, CV's, and understanding of what a career in research can look like.

In order to achieve these goals, we need to hear from you. Please contact a committee member via our dedicated website. You can also get more information, as well as links to our social media. <https://www.dur.ac.uk/wolfson.institute/esr/>

Postgraduate Associate Scheme

The Institute launched a Postgraduate Associate Scheme in 2012 with 50 Associates and more joining every week. The scheme is open to all Postgraduates, from any department within the University, who are a registered postgraduate taught or research student at the University. The taught course or research project undertaken must fall broadly within one of the Institute's three themes. Postgraduate Associates have access to all of the Institute's seminars, lectures and workshops. For more information, please visit <https://www.dur.ac.uk/wolfson.institute/fellowships/postgraduate/>

Fellows Publications 2019

Dr Nasima Akhter

Authored book

- Akhter, N. Mattheys, K. Warren, J. & Kasim, A. (2019). [Health in Hard Times. Chapter six: Minding the Gap](#). Policy Press.

Journal Article

- Todd, Adam, McNamara, Courtney L., Balaj, Mirza, Huijts, Tim, Akhter, Nasima, Thomson, Katie, Kasim, Adetayo, Eikemo, Terje A & Bamba, Clare (2019). [The European Epidemic: pain prevalence and socioeconomic inequalities in pain across 19 European countries](#). *European Journal of Pain* 23(8): 1425-1436.

Dr Ben Alderson-Day

Journal Article

- Fernyhough, C., Watson, A., Bernini, M., Moseley, P & Alderson-Day, B. (2019). [Imaginary companions, inner speech and auditory verbal hallucinations: What are the relations?](#). *Frontiers in Psychology: Cognitive Science* 10: 1665.

Dr Carrie A. Ambler

Journal Article

- Chisholm, David, Lamb, Rebecca, Pallett, Tommy, Affleck, Valerie, Holden, Claire, Marrison, Joanne, O'Toole, Peter, Ashton, Peter, Newling, Katherine, Steffen, Andreas, Nelson, Amanda, Mahler, Christoph, Valentine, Roy, Blacker, Thomas, Bain, Angus John, Girkin, John M, Marder, Todd B, Whiting, Andrew & Ambler, Carrie A (2019). [Photoactivated cell-killing involving a low molecular weight, donor-acceptor diphenylacetylene](#). *Chemical Science* 10(17): 4673-4683.

Professor Elizabeth Archibald

Journal Article

- Archibald, Elizabeth (2019). [Mordred's Lost Childhood](#). *Arthuriana* 29(1): 77-87.

Dr Andrea Armstrong

Journal Article

- Clarke, Rachel Elizabeth, Briggs, Jo, Armstrong, Andrea, MacDonald, Alistair, Vines, John, Flynn, Emma & Salt, Karen (2019). [Socio-materiality of trust: co-design with a resource limited community organisation](#). *CoDesign*

Professor Sarah Atkinson

Chapter in book

- Hunt, R. & Atkinson, S. (2019). [GeoHumanities and Health](#). In [GeoHumanities and Health](#). Atkinson, S. & Hunt, R. Springer. 1-28.

Journal Article

- Atkinson, S., Bagnall, A-M., Corcoran, R., South, J. & Curtis, S. (2019). [Being well together: individual subjective and community wellbeing](#). *Journal of Happiness Studies*

Report

- Curtis, Sarah, Congdon, Peter, Atkinson, Sarah, Corcoran, Rhiannon, McGuire, Rosie & Peasgood, Tessa (2019). [Individual and local area factors associated with self-reported wellbeing, perceived social cohesion and sense of attachment to one's community: analysis of the Understanding Society Survey](#). What Works Centre for Wellbeing.

Dr Anthony Atkinson

Journal Article

- Mowbray, R., Gottwald, J.M, Zhao, M., Atkinson, A.P. & Cowie, D. (2019). [The development of visually guided stepping](#). *Experimental Brain Research* 237(11): 2875-2883.

Professor Sarah Banks

Chapter in book

- Banks, Sarah (2019). [Ethics, equity and community development: Mapping the terrain](#). In [Ethics, equity and community development](#). Banks, Sarah & Westoby, Peter Policy Press. 3-35.

Edited book

- Banks, Sarah & Westoby, Peter (2019). [Ethics, equity and community development](#). Rethinking Community Development. Policy Press.
- Banks, S., Hart, A., Pahl, K. & Ward, P. (2019). [Co-producing research: a community development approach](#). Connected Communities. Policy Press.

Journal Article

- Weinberg, Merlinda & Banks, Sarah (2019). [Practising Ethically in Unethical Times: Everyday Resistance in Social Work](#). *Ethics and Social Welfare* 13(4).
- Lucas, G., Zasada, M., Gallagher, A., Jago, R., Banks, S., Zubin, A. & van der Gaag, A. (2019). [Understanding complaints about paramedics: a qualitative exploration in a UK context](#). *Australasian Journal of Paramedicine* 16: 1-7.

Professor Jens Beckmann

Chapter in book

- Birney, P.B., Beckmann, J.F. & Beckmann, N. (2019). [Within-individual variability of ability and learning trajectories in complex problems](#). In [General and Specific Mental Abilities](#). McFarland, D.J. Newcastle upon Tyne: Cambridge Scholars. 253-283.

Journal Article

- Yu, Calvin, Beckmann, Jens F. & Birney, Damian P. (2019). [Cognitive flexibility as a meta-competency / Flexibilidad cognitiva como meta-competencia](#). *Estudios de Psicología* 40(3): 563-584.
- Zhang, J., Beckmann, N. & Beckmann, J.F. (2019). [One situation doesn't fit all: Variability and stability of state willingness to communicate in a Chinese College English classroom](#). *Language Teaching Research*

Dr Nadin Beckmann

Chapter in book

- Birney, P.B., Beckmann, J.F. & Beckmann, N. (2019). [Within-individual variability of ability and learning trajectories in complex problems](#). In [General and Specific Mental Abilities](#). McFarland, D.J. Newcastle upon Tyne: Cambridge Scholars. 253-283.

Conference Paper

- Beckmann, N., Birney, D.P., Beckmann, J.F., Wood, R.E., Sojo, V. & Bowman, D. (2019), Inter-individual differences in intra-individual variability in personality within and across contexts, [Biennial Meeting of the International Society for the Study of Individual Differences \(ISSID\)](#). Florence, Italy.

Journal Article

- Zhang, J., Beckmann, N. & Beckmann, J.F. (2019). [One situation doesn't fit all: Variability and stability of state willingness to communicate in a Chinese College English classroom](#). *Language Teaching Research*

Report

- Robinson-Smith, Lyn, Menzies, Victoria, Cramman, Helen, Wang, Yuqian (Linda), Fairhurst, Caroline, Hallett, Sarah, Beckmann, Nadin, Merrell, Christine, Torgerson, Carole, Stothard, Sue & Siddiqui, Nadia (2019). [EasyPeasy: Learning through play. Evaluation Report](#). Education Endowment Foundation.

Professor Vikki Boliver

Journal Article

- Siddiqui, N. , Gorard, S. & See, B.H. (2019). [Can learning beyond the classroom impact on social responsibility and academic attainment? An evaluation of the Children's University youth social action programme](#). *Studies in Educational Evaluation* 61: 74-82.
- Boliver, V., Gorard, S. & Siddiqui, N. (2019). [Using contextualised admissions to widen access to higher education: a guide to the evidence base](#). *DECE Research Briefing* (1).
- Gorard, S., Siddiqui, N., See, B.H., Boliver, V. & Wardle, L. (2019). [Let's make education fairer](#). *Research Intelligence* Autumn 2019(140): 12-13.
- Boliver, V., Gorard, S. & Siddiqui, N. (Accepted). [Using contextual data to widen access to higher education](#). *Perspectives: Policy and Practice in Higher Education*

Other (Digital/Visual Media)

- Gorard, S., Boliver, V. & Siddiqui, N. (2019). [Fair access means admitting more applicants with lower grades](#). Blog.

Working Paper

- Hunt, S. & Boliver, V. (2019). [Private providers of higher education in the UK: mapping the terrain](#). 47.

Professor Lynda Boothroyd

Chapter in book

- Boothroyd, L.G. & Vukovic, J. (2019). [Mate Preferences Across the Lifespan](#). In The Oxford Handbook of Evolutionary Psychology and Behavioral Endocrinology. Welling, L.M. & Shackelford, T.K. Oxford University Press. 143-159.

Journal Article

- Kant, R. M. Naina, Wong-Chung, Agnes, Evans, Elizabeth H., Stanton, Elaine C. & Boothroyd, Lynda G. (2019). [The Impact of a Dissonance-Based Eating Disorders Intervention on Implicit Attitudes to Thinness in Women of Diverse Sexual Orientations](#). *Frontiers in Psychology* 10: 2611.

Professor Toby Breckon

Chapter in book

- Atapour-Abarghouei, A. & Breckon, T.P. (2019). [Dealing with Missing Depth: Recent Advances in Depth Image Completion and Estimation](#). In RGB-D Image Analysis and Processing. Rosin, Paul L. Lai, Yu-Kun Shao, Ling & Liu, Yonghuai Cham: Springer. 15-50.

Conference Paper

- Aznan, N.K.N., Connolly, J.D., Al Moubayed, N. & Breckon, T.P. (2019), [Using Variable Natural Environment Brain-Computer Interface Stimuli for Real-time Humanoid Robot Navigation](#), 2019 IEEE International Conference on Robotics and Automation (ICRA). Montreal, Canada, IEEE, 4889-4895.
- Aznan, N.K.N., Atapour-Abarghouei, A., Bonner, S., Connolly, J.D., Al Moubayed, N. & Breckon, T.P. (2019), [Simulating Brain Signals: Creating Synthetic EEG Data via Neural-Based Generative Models for Improved SSVEP Classification](#), International Joint Conference on Neural Networks (IJCNN). Budapest, Hungary, IEEE, 1-8.
- Atapour-Abarghouei, A. & Breckon, T.P. (2019), [Veritatem Dies Aperit - Temporally Consistent Depth Prediction Enabled by a Multi-Task Geometric and Semantic Scene Understanding Approach](#), IEEE/CVF Conference on Computer Vision and Pattern Recognition, Deep Vision. Long Beach, California, USA, IEEE.
- Adey, P., Bordewich, M., Breckon, T.P. & O.K. Hamilton (2019), [Region Based Anomaly Detection With Real-Time Training and Evaluation](#), 18th IEEE International Conference on Machine Learning and Applications (ICMLA 2019). Boca Raton, Florida, USA, IEEE.
- Wang, Q., Bu, P. & Breckon, T.P. (2019), [Unifying Unsupervised Domain Adaptation and Zero-Shot Visual Recognition](#), International Joint Conference on Neural Networks. Budapest, IEEE.
- Akcay, A., Atapour-Abarghouei, A. & Breckon, T.P. (2019), [Skip-GANomaly: Skip Connected and Adversarially Trained Encoder-Decoder Anomaly Detection](#), Proc. Int. Joint Conference on Neural Networks. Budapest, Hungary, IEEE.
- Gaus, Y.F.A., Bhowmik, N., Akcay, A., Guillen-Garcia, P.M., Barker, J.W & Breckon, T.P. (2019), [Evaluating a Dual Convolutional Neural Network](#)

- [Architecture for Object-wise Anomaly Detection in Cluttered X-ray Security Imagery](#), Joint Conference on Neural Networks. Budapest, Hungary, IEEE.
- Ismail, K.N. & Breckon, T.P. (2019), [On the Performance of Extended Real-Time Object Detection and Attribute Estimation within Urban Scene Understanding](#), 18th IEEE International Conference on Machine Learning and Applications (ICMLA 2019). Boca Raton, Florida, USA, IEEE.
 - Gaus, Y.F.A., Bhowmik, N., Akcay, S. & Breckon, T.P. (2019), [Evaluating the Transferability and Adversarial Discrimination of Convolutional Neural Networks for Threat Object Detection and Classification within X-Ray Security Imagery](#), 18th IEEE International Conference on Machine Learning and Applications (ICMLA 2019). Boca Raton, Florida, USA, IEEE.
 - Philip Jackson, Amir Atapour-Abarghouei, Stephen Bonner, Toby Breckon & Boguslaw Obara (2019), [Style augmentation: data augmentation via style randomization](#), IEEE/CVF Conference on Computer Vision and Pattern Recognition, Deep Vision. Long Beach, CA, USA, IEEE.
 - Atapour-Abarghouei, A. & Breckon, T.P. (2019), [Monocular Segment-Wise Depth: Monocular Depth Estimation Based on a Semantic Segmentation Prior](#), IEEE International Conference on Image Processing. Taipei, Taiwan, IEEE, Piscataway, NJ, 4295-4299.
 - Bhowmik, N., Gaus, Y.F.A., Akcay, S., Barker, J.W. & Breckon, T.P. (2019), [On the Impact of Object and Sub-Component Level Segmentation Strategies for Supervised Anomaly Detection within X-Ray Security Imagery](#), 18th IEEE International Conference on Machine Learning and Applications (ICMLA 2019). Boca Raton, Florida, USA, IEEE.
 - Samarth, G., Bhowmik, N. & Breckon, T.P. (2019), [Experimental Exploration of Compact Convolutional Neural Network Architectures for Non-temporal Real-time Fire Detection](#), 18th IEEE International Conference on Machine Learning and Applications (ICMLA 2019). Boca Raton, Florida, USA, IEEE.
 - Stephenson, F., Breckon, T.P. & Katramados, I. (2019), [DeGraF-Flow: Extending DeGraF Features for Accurate and Efficient Sparse-to-Dense Optical Flow Estimation](#), 26th IEEE International Conference on Image Processing (ICIP). Taipei, Taiwan, IEEE, Piscataway, NJ, 1277-1281.
 - Peng, S., Kamata, S. & Breckon, T.P. (2019), [A Ranking based Attention Approach for Visual Tracking](#), 26th IEEE International Conference on Image Processing (ICIP). Taipei, Taiwan, IEEE, Piscataway, NJ, 3073-3077.
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Dr Hannah Brown

Edited Journal

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Professor David Budgen

Conference Paper

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Dr Stephen Burrell

Doctoral Thesis

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Newspaper/Magazine Article

- Burrell, S.R. (2019). [It's time men take on the responsibility for ending male violence](#). *White Ribbon UK*

Report

- Westmarland, N. & Burrell, S.R. (2019). [Perpetrators in the early stages of help-seeking: Views of service users](#). Respect.
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Dr Camila Caiado

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Dr Soazig Casteau

Journal Article

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Professor Brian Castellani

Conference Paper

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Professor Emma Cave

Journal Article

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Dr P Chazot

Journal Article

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Dr Steven Cobb

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Dr Jason Connolly

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Professor Christopher C. H. Cook

Chapter in book

- Grimwade, Lucy & Cook, Christopher C.H. (Published). [The Clinician's View of Spirituality](#). In Chaplaincy and Spiritual Care in Mental Health Settings. Fletcher, Jean Jessica Kingsley. 31-43.

Journal Article

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Professor Frank Coolen

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Dr Tahani Coolen-Maturi

Journal Article

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Dr Judith Covey

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Mr Robert Cramb

Conference Paper

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Dr Helen Cramman

Report

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Professor Richard Crisp

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Professor Sarah Elizabeth Curtis

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Dr Michelle W. de Gruchy

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Dr Paul Denny

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Newspaper/Magazine Article

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Dr Caroline Dodd-Reynolds

Journal Article

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Dr Alexander Easton

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Professor Matthew Daniel Eddy

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Professor Amanda Ellison

Journal Article

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Professor Olga Epitropaki

Journal Article

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Professor Charles Fernyhough

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Dr Andrew Gallant

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Dr Lian Gan

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Professor John Girkin

Journal Article

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Professor Stephen Gorard

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Other (Print)

- Gorard, S. (Accepted). The difficulties of judging what difference the Pupil Premium has made to school intakes and outcomes in England.

Professor Rebecca Gowland

Chapter in book

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Dr Les Graham

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Dr Patrick Gray

Book review

- Gray, Patrick (Forthcoming). *Russ Leo, Tragedy as Philosophy in the Reformation World*. Oxford: Oxford University Press, 2019. *The Seventeenth Century*

Chapter in book

- Gray, Patrick (Forthcoming). [Augustinianism](#). In *Shakespeare and Virtue: A Handbook*. Lupton, Julia Reinhard & Sherman, Donovan Cambridge University Press.

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- Gray, Patrick (2019), [Shakespeare and Morality](#), *Shakespeare and Morality*. University of Surrey and the Guildford School of Acting.
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Professor Kate Hampshire

Journal Article

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Professor Markus Hausmann

Journal Article

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Dr Frances Hillier-Brown

Journal Article

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Dr Karen Hind

Journal Article

- Keay, Nicola, Francis, Gavin Entwistle, Ian & Hind, Karen (2019). [Clinical evaluation of education relating to nutrition and skeletal loading in competitive male road cyclists at risk of relative energy deficiency in sports \(RED-S\): 6-month randomized controlled trial](#). *BMJ Open Sport and Exercise Medicine* 5(1): e000523.

- Hind, Karen & Oldroyd, Brian (2019). [Bone mineral density precision for individual and combined vertebrae configurations from lumbar spine dual energy X-ray absorptiometry scans](#). *Journal of Clinical Densitometry*
- Hind, K, Hayes, L, Basterfield, L, Pearce, M S & Birrell, F (2019). [Objectively-measured sedentary time, habitual physical activity and bone strength in adults aged 62 years: the Newcastle Thousand Families Study](#). *Journal of Public Health*
- Zemski, A.J., Keating, S.E., Broad, E.M., Marsh, D.J., Hind, K. & Slater, G.J. (2019). [Preseason Body Composition Adaptations in Elite White and Polynesian Rugby Union Athletes](#). *International journal of sport nutrition and exercise metabolism* 29(1): 9-17.
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- Thornley, Isobel, Hynd, Jason, Stein, Stella, Butterworth, Mathew, Hind, Karen & Francis, Peter (2019). [A new approach to the classification of muscle health: preliminary investigations](#). *Physiological Measurement* 40(8): 085001.

Professor Claire Horwell

Journal Article

- Pavan, C., Delle Piane, M., Gullo, M., Filippi, F., Fubini, B., Hoet, P., Horwell, C.J., Huaux, F., Lison, D., Lo Giudice, C., Martra, G., Montfort, E., Schins, R., Sulpizi, M., Wegner, K., Wyart-Remy, M., Ziemann, C. & Turci, F. (2019). [The puzzling issue of silica toxicity: are silanols bridging the gaps between surface states and pathogenicity?](#). *Particle and Fibre Toxicology* 16(1): 32.
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Dr Fusako Innami

Journal Article

- Innami, Fusako (Accepted). "Falling Dance: Grafting the Composite of the Senses through Hijikata and Bacon". *The Senses and Society*

Dr Kimberly Jamie

Journal Article

- Musilek, K., Jamie, K. & McKie, L. (2019). [Cold winds and warm attachments: Interrogating the personal attachment to neoliberal work and economy](#). *Work, Employment & Society*

Professor Karen Johnson

Journal Article

- Clarke, Catherine E., Stone, Wendy, Hardie, Ailsa G., Quinton, John N., Blake, Lynsay I. & Johnson, Karen L. (2019). [Better Together: Water Treatment Residual and Poor-Quality Compost Improves Sandy Soil Fertility](#). *Journal of Environment Quality* 48(6): 1781.

Karen Jones

Report

- Jones, K. (2019). Using binary logistic regression to investigate the impact of the Durham Grant Scheme. Internal report for Durham University.

Dr Adetayo Kasim

Journal Article

- Todd, Adam, McNamara, Courtney L., Balaj, Mirza, Huijts, Tim, Akhter, Nasima, Thomson, Katie, Kasim, Adetayo, Eikemo, Terje A & Bambra, Clare (2019). [The European Epidemic: pain prevalence and socioeconomic inequalities in pain across 19 European countries](#). *European Journal of Pain* 23(8): 1425-1436.
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Dr Matthew O. Kitching

Journal Article

- Snieckus, Victor, Patel, Jignesh, Kitching, Matthew, Dalziel, Michael, Cosman, Jennifer & Kaye, Meagan (2019). [Regioselective Functionalization of 7-Azaindole by Controlled Annular Isomerism: The Directed Metalation-Group Dance](#). *Angewandte Chemie* 131(22): 7391-7395.

Ms Andrea Lambell

Journal Article

- Lambell, Andrea (2019). [‘Other-unproven’ US research and its implications for complementary therapies in the UK](#). *Cancer Nursing Practice* 18(5): e1586.

Dr Cheryl Lancaster

Journal Article

- Lancaster, Cheryl (2019). [The History of Stem Cell Research: A Philosophical Review](#). *Historical Studies in the Natural Sciences* 49(4): 447.

Dr Colin Lever

Journal Article

- Poulter, Steven, Austen, Joseph M., Kosaki, Yutaka, Dachtler, James, Lever, Colin & McGregor, Anthony (2019). [En route to delineating hippocampal roles in spatial learning](#). *Behavioural Brain Research* 369: 111936.

Dr Susan Lewis

Journal Article

- Reynolds, Joanna & Lewis, Sue (2019). [Ethnography and evaluation: temporalities of complex systems and methodological complexity](#). *Anthropology & Medicine* 26(1): 1-17.
- Burges Watson, D.L., Lewis, S., Campbell, M., Bryant, V., Storey, S.T. & Deary, V. (2019). [Food play: A novel research methodology for visceral geographers and health researchers](#). *Health & Place* 57: 139-146.

Professor Steve Lindsay

Journal Article

- Tusting, Lucy S., Bisanzio, Donal, Alabaster, Graham, Cameron, Ewan, Cibulskis, Richard, Davies, Michael, Flaxman, Seth, Gibson, Harry S., Knudsen, Jakob, Mbogo, Charles, Okumu, Fredros O., von Seidlein, Lorenz, Weiss, Daniel J., Lindsay, Steve W., Gething, Peter W. & Bhatt, Samir (2019). [Mapping changes in housing in sub-Saharan Africa from 2000 to 2015](#). *Nature* 568: 391-394
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Claudia, Nix, Emily, Okumu, Fredros, Ruel-Bergeron, Sarah, Spitzen, Jeroen, Tusting, Lucy S., Wilson, Anne L., Wood, Hannah, Zahouli Bi Zahouli, Julien, Davies, Michael & Lindsay, Steve W. (2019). [Research agenda for preventing mosquito-transmitted diseases through improving the built environment in sub-Saharan Africa](#). *Cities & Health*

- Mbare, Oscar, Lindsay, Steven W. & Fillinger, Ulrike (2019). [Testing a pyriproxyfen auto-dissemination station attractive to gravid Anopheles gambiae sensu stricto for the development of a novel attract-release -and-kill strategy for malaria vector control](#). *BMC Infectious Diseases* 19(1): 800.

Dr Iain Lindsey

Chapter in book

- Lindsey, I. (2019). Ownership of Sport for Development and Peace. In [Who Owns Sport?](#) Adams, A. & Robinson, L. Routledge.

Journal Article

- Metcalfe, Sarah Nicola & Lindsey, Iain (2019). [Gendered trends in young people's participation in active lifestyles: The need for a gender-neutral narrative](#). *European Physical Education Review* 1356336X1987409.

Professor Jane Macnaughton

Journal Article

- Oxley, Rebecca, Harrison, Samantha L., Rose, Arthur & Macnaughton, Jane (2019). [The meaning of the name of 'pulmonary rehabilitation' and its influence on engagement with individuals with chronic lung disease](#). *Chronic Respiratory Disease* 16: 1-9.
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Dr Laura Mazzoli Smith

Journal Article

- Laing, K, Mazzoli Smith, L & Todd, L (2019). [Using the concept of relational justice to apply fairness in schools](#). *International Education Journal: Comparative Perspectives* 18(1): 128-142.

Dr Anthony McGregor

Journal Article

- Poulter, Steven, Austen, Joseph M., Kosaki, Yutaka, Dachtler, James, Lever, Colin & McGregor, Anthony (2019). [En route to delineating hippocampal roles in spatial learning](#). *Behavioural Brain Research* 369: 111936.

Victoria Menzies

Report

- Robinson-Smith, Lyn, Menzies, Victoria, Cramman, Helen, Wang, Yuqian (Linda), Fairhurst, Caroline, Hallett, Sarah, Beckmann, Nadin, Merrell, Christine, Torgerson, Carole, Stothard, Sue & Siddiqui,

Nadia (2019). [EasyPeasy: Learning through play. Evaluation Report](#). Education Endowment Foundation.

Professor Christine Merrell

Report

- Robinson-Smith, Lyn, Menzies, Victoria, Cramman, Helen, Wang, Yuqian (Linda), Fairhurst, Caroline, Hallett, Sarah, Beckmann, Nadin, Merrell, Christine, Torgerson, Carole, Stothard, Sue & Siddiqui, Nadia (2019). [EasyPeasy: Learning through play. Evaluation Report](#). Education Endowment Foundation.
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Dr Sarah Metcalfe

Journal Article

- Metcalfe, Sarah Nicola & Lindsey, Iain (2019). [Gendered trends in young people's participation in active lifestyles: The need for a gender-neutral narrative](#). *European Physical Education Review* 1356336X1987409.
- Metcalfe, Sarah N (2019). [The development of an adolescent sporting gendered habitus: Young people's interpretation of UK sports-media coverage of Rio 2016 Olympic Games](#). *European Journal for Sport and Society* 16(4).

Dr Helen Moore

Journal Article

- Azevedo, Liane B., van Sluijs, Esther M.F., Moore, Helen J. & Hesketh, Kathryn (2019). [Determinants of change in accelerometer-assessed sedentary behaviour in children 0 to 6 years of age: A systematic review](#). *Obesity Reviews* 20(10): 1467-7881.

Professor Tiago Moreira

Journal Article

- Moreira, Tiago (2019). [Anticipatory measure: Alex Comfort, experimental gerontology and the measurement of senescence](#). *Studies in History and Philosophy of Science Part C: Studies in History and Philosophy of Biological and Biomedical Sciences* 77: 101179.

Dr Boguslaw Obara

Conference Paper

- Carl J. Nelson, Philip T.G. Jackson & Boguslaw Obara (2019), [Combining mathematical morphology and the Hilbert transform for fully automatic nuclei detection in fluorescence microscopy](#), Lecture Notes in Computer Science [The International Symposium on Mathematical Morphology](#). Saarbrücken, Germany, Springer.

- Philip Jackson, Amir Atapour-Abarghouei, Stephen Bonner, Toby Breckon & Boguslaw Obara (2019), [Style augmentation: data augmentation via style randomization](#), IEEE/CVF Conference on Computer Vision and Pattern Recognition, Deep Vision. Long Beach, CA, USA, IEEE.
- Pedro Cardenas-Canto, Georgios Theodoropoulos & Boguslaw Obara (2019), Web insights for national security: analysing participative online activity to interpret crises, IEEE International Conference on Cognitive Informatics and Cognitive Computing. Milano, Italy.
- Mahnaz Mohammadi, Sardar Jaf, Toby Breckon, Peter Matthews, Andrew Stephen McGough, Georgios Theodoropoulos & Boguslaw Obara (2019), [On the use of neural text generation for the task of optical character recognition](#), 16th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2019. Abu Dhabi, UAE.
- Ning Jia, Chris Holder, Stephen Bonner & Boguslaw Obara (2019), [Coarse annotation refinement for segmentation of dot-matrix batchcodes](#), IEEE International Conference on Machine Learning and Applications. Boca Raton, FL, USA.
- Pedro Cardenas-Canto, Georgios Theodoropoulos, Boguslaw Obara & Ibad Kureshi (2019), [Analysing social media as a hybrid tool to detect and interpret likely radical behavioural traits for national security](#), IEEE International Conference on Big Data (Human-in-the-loop Methods and Human Machine Collaboration in BigData). Los Angeles, CA, USA, IEEE.
- Stephen Bonner, Amir Atapour-Abarghouei, Phillip Jackson, Brennan, John, Kureshi, Ibad, Theodoropoulos, Georgios, McGough, Stephen & Obara, Boguslaw (2019), [Temporal neighbourhood aggregation: predicting future links in temporal graphs via recurrent variational graph convolutions](#), IEEE International Conference on Big Data (Deep Graph Learning: Methodologies and Applications). Los Angeles, CA, USA, IEEE.

Journal Article

- Shuaa S. Alharbi, Cigdem Sazak, Haifa Alhasson, Carl J Nelson & Obara, Boguslaw (2019). [The multiscale top-hat tensor enables specific enhancement of curvilinear structures in 2D and 3D images](#). *Methods*
- Stephen Bonner, Ibad Kureshi, John Brennan, Georgios Theodoropoulos, Stephen McGough & Boguslaw Obara (2019). [Exploring the semantic content of unsupervised graph embeddings: an empirical study](#). *Data Science and Engineering* 4(3): 269-289.

Dr Emily J. Oliver

Journal Article

- Hanson, CL, Oliver, EJ, Dodd-Reynolds, CJ & Kelly, P (2019). [We are failing to improve the evidence base for "Exercise Referral" How a Physical Activity Referral Scheme Taxonomy can help](#). *British Journal of Sports Medicine*

Dr Rebecca Oxley

Journal Article

- Oxley, Rebecca, Harrison, Samantha L., Rose, Arthur & Macnaughton, Jane (2019). [The meaning of the name of 'pulmonary rehabilitation' and its](#)

[influence on engagement with individuals with chronic lung disease](#). *Chronic Respiratory Disease* 16: 1-9.

Professor Joe Painter

Journal Article

- Papada, E, Papoutsis, A, Painter, J & Vradis, A (2019). [Pop-up governance: transforming the management of migrant populations through humanitarian and security practices in Lesbos, Greece, 2015-2017](#). *Environment and Planning D: Society and Space*

Professor Shaun Pattinson

Presentation

- Pattinson, Shaun D (2019), Bioethics by Committee, [SLS Annual Conference 2019](#). Preston.
- Pattinson, Shaun D (2019), Tony Bland as a 'Novel Being', [Novel Beings in the Humanities](#). Newcastle University.

Dr Cassandra Phoenix

Chapter in book

- Smith, B & Phoenix, C (2019). Qualitative research in physical activity and health. In [Research Methods in Physical Activity and Health](#). S. R. Bird & J. A. Hawley Routledge.

Journal Article

- Bell, S.L., Leyshon, C. & Phoenix, C. (2019). [Negotiating nature's weather worlds in the context of life with sight impairment](#). *Transactions of the Institute of British Geographers* 44(2): 270-283.
- Phoenix, C. & Bell, Sarah L. (2019). [Beyond "Move More" Feeling the Rhythms of physical activity in mid and later-life](#). *Social Science & Medicine* 231: 47-54.

Dr Ehmke Pohl

Journal Article

- Melatti, Carmen, Pieperhoff, Manuela, Lemgruber, Leandro, Pohl, Ehmke, Sheiner, Lilach & Meissner, Markus (2019). [A unique dynamin-related protein is essential for mitochondrial fission in Toxoplasma gondii](#). *PLoS Pathogens* 15(4): e1007512.
- Tatum, NJ, Duarte, F, Kamerlin, SLC & Pohl, E (2019). [Relative Binding Energies Predict Crystallographic Binding Modes of Ethionamide Booster Lead Compounds](#). *The Journal of Physical Chemistry Letters* 10(9): 2244–2249.
- Freitag-Pohl, Stefanie, Jasilionis, Andrius, Håkansson, Maria, Svensson, L, Anders, Kovačič, Rebeka, Welin, Martin, Watzlawick, Hildegard, Wang, Lei, Altenbuchner, Josef, Płotka, Magdalena, Kaczorowska, Anna Karina, Kaczorowski, Tadeusz, Nordberg Karlsson, Eva, Al-Karadaghi, Salam, Walse, Björn, Aevansson, Arnthór & Pohl, Ehmke (2019). [Crystal structures of the Bacillus subtilis prophage lytic cassette proteins XepA and YomS](#). *Acta Crystallographica Section D Structural Biology* 75(11): 1028-1039.

Dr Tessa M. Pollard

Journal Article

- Wagnild, Janelle M., Hinshaw, Kim & Pollard, Tessa M. (2019). [Associations of sedentary time and self-reported television time during pregnancy with incident gestational diabetes and plasma glucose levels in women at risk of gestational diabetes in the UK](#). *BMC Public Health* 19(1): 575.
- Morris, Stephanie, Guell, Cornelia & Pollard, Tessa M. (2019). [Group walking as a “lifeline” Understanding the place of outdoor walking groups in women's lives](#). *Social Science & Medicine* 238: 112489.

Mr Michael Priestley

Conference Paper

- Priestley, Michael (2019), [Sick of Study: Student mental ‘illness’ and neoliberal higher education policy](#), in Shao, Xin & Dobson, Emma eds, [Imagining Better Education](#). Durham, England, Durham University, School of Education, Durham, England, 183-199.

Professor Roy Andrew Quinlan

Journal Article

- Barnard, SGR, McCarron, R, Moquet, J, Quinlan, RA & Ainsbury, E (2019). [Inverse dose-rate effect of ionising radiation on residual 53BP1 foci in the eye lens](#). *Scientific Reports* 9: 10418.
- Battaglia, Rachel A, Beltran, Adriana S, Delic, Samed, Dumitru, Raluca, Robinson, Jasmine A, Kabiraj, Parijat, Herring, Laura E, Madden, Victoria J, Ravinder, Namritha, Willems, Erik, Newman, Rhonda A, Quinlan, Roy Andrew, Goldman, James E, Perng, Ming-Der, Inagaki, Masaki & Snider, Natasha T (2019). [Site-specific phosphorylation and caspase cleavage of GFAP are new markers of Alexander Disease severity](#). *eLife* 8: e47789.

Professor Deborah Riby

Journal Article

- Glod, Magdalena, Riby, Deborah M. & Rodgers, Jacqui (2019). [Short Report: Relationships between Sensory Processing, Repetitive Behaviours, Anxiety, and Intolerance of Uncertainty in Autism Spectrum Disorder and Williams Syndrome](#). *Autism Research* 12(5): 759-765.
- McDougal, E. & Riby, D. (Submitted). Profiles of academic achievement and attention in children with and without Autism Spectrum Disorder. *Research in Developmental Disabilities (Special edition)*
- Glod, M., Riby, D. M. & Rodgers, J. (2019). [Sensory Processing in Williams Syndrome: A Narrative Review](#). *Review Journal of Autism and Developmental Disorders* 7: 32-45.
- Cebula, K., Gillooly, A., Coulthard, L. K., Riby, D. M. & Hastings, R. P. (2019). [Siblings of children with Williams syndrome: Correlates of psychosocial adjustment and sibling relationship quality](#). *Research in Developmental Disabilities* 94: 103496.

Mr Benjamin Rigby

Journal Article

- Rigby, BP, Dodd-Reynolds, CJ & Oliver, EJ (2019). [Outdoor walking groups and inequalities: an equity-focused scoping review](#). *Public Health Reviews*

Mr Jack Robert Edmunds-Coopey

Book review

- (Forthcoming). The Bloomsbury Companion to Marx. *Marx & Philosophy Review of Books*

Conference Paper

- (2019), Body and Corporeality in Ancient Philosophy – Foucault and the Ethics of the Self, [Fifth Annual Conference of the Centre for the Study of Global Ethics \(30-31 May 2019 – University of Birmingham\)](#). University of Birmingham, England.
- (2019), Totality and the Biology of the Whole: The Biology of the Ape to Man in Marx and Hegel, [Biological Thought and the German Left, Bloch Centre for German Thought, London, 17 May 2019](#). University of London, England.
- (2019), Minor Idealisms: The minoritarian case of H. H. Joachim (1868-1938) and Spinoza's Ethics, a home for the Analytic revolution, [93rd Joint Session of the Aristotelian Society and the Mind Association](#). University of Durham, England.
- (Accepted), Impotence of Nature's Disease: Health and Wellbeing in German Idealism, [Fourth Annual Wolfson Research Institute for Health and Wellbeing Early Career Researcher Conference](#). University of Durham, England.
- (2019), Body and Corporeality in Ancient Philosophy – Foucault and the Space and Time of Subjectivity in the Collège de France Lectures (1970-1984), [Encounters: the coincidence of space, time, and subjectivity An interdisciplinary conference](#). 16th-18th September 2019 St John's College, University of Cambridge.
- (2019), Bachelard and the Science of Objectivity in the Life Sciences: An Epistemology of the Absolute as Hegelian Philosophy of Nature, [ESHS ESHS First Young Scholars Conference 2019 Transcultural Knowledge 10-12 Sep 2019 Paris \(France\)](#). Paris Observatory
- (2019), Gigantomachia: Totality and the Surveillance of the Global: Visions of the Whole as Modernity in the Work of Fredric Jameson, [Inaugural Interdisciplinary PGR Conference: Global Challenges](#). University of Durham, England.
- (2019), Gigantomachia: The Delay of Time in Jokes in Kant's and Bergson's Metaphysics of Time, [BSA Synergy Conference How To Do Things With Jokes, University of Kent, Canterbury, 25-27 October 2019](#). University of Kent, Canterbury
- (2019), Predictive Brain and Technics in the Thought of Malabou, Stiegler and Simondon, [CFA: X-SPECT's 3rd Annual Workshop Wilding the Predictive Brain: Prediction, Culture and Context November 1st, 2019 @ University of Sussex](#). University of Sussex.
- (Accepted), Gigantomachia: Totality and Truth: Visions of the Whole as Truth in the Work of Fredric Jameson, [Sixteenth Annual Conference. Claps of](#)

Thunder: Disaster Communism, Extinction Capitalism and How to Survive Tomorrow. 7th 10th November 2019 SOAS, Russell Square, Central London.

- (Accepted), Body and Corporeality in Ancient Philosophy – Foucault and the Space and Time of Subjectivity in the Collège de France Lectures (1970-1984), 'Time, Space and Culture' International Conference. 15-16 February 2020 St. Anne's College, University of Oxford.
- (Accepted), Theodicy of Imperfections: Kant's Natural, Unnatural and Supernatural Critique of Leibniz's Unitary mode of Logical Forces, the BSECS 49th Annual Conference "Natural, Unnatural and Supernatural" of the British Society for Eighteenth-Century Studies. St Hugh's College, University of Oxford.
- (2020), The Figure of Romanticism in the work of Jean-Luc Nancy and Jacques Derrida, 7th Derrida Today Conference From border to border, Derrida. Aix Marseille University, Aix-en-Provence and Marseille, France.
- (Accepted), An Absolute of Literature as Event: The Literary Absolute (1988) and Jean-Luc Nancy's Philosophical Literature , Literature and Event: Reformulations of the Literary in the 21st Century A one-day interdisciplinary conference Saturday 15th February 2020. University of Warwick, England.

Device or Product

- (2019). (*Collaborator, EU Grant, Philosophical Dilemmas in Ethical and Moral Philosophy*) *Quarks Interactive Quantum Computing Video Game*.

Journal Article

- Haukedal, Sandnes Rasmus, & Coopey-Edmunds, Robert Jack (Planned). Hegel's Philosophy of Nature: Contemporary Biology and Emergence. *Hegel Bulletin 2020, Cambridge University Press*
- (Planned). Gigantisms: Heidegger's Black Notebooks and the Meaning of Being to the History of Being as Heimatland and the Writing style of the Denktagebuch. *British Society Journal for Phenomenology*
- (Planned). Totality in Marx and Engels: Biologism and Political Economy. *History of Political Thought*
- (Planned). Spinoza, Hegel and the Absolute, Origins of the Enlightenment Community. *Review of Politics*
- (2019). Fredric Jameson and the Totality of the Text: A Critique of Empirical Historiography. *Philosophy and Literature*
- (2019). Walter Benjamin's reading of Charles Baudelaire: The Historicity of Presentism. *History and Theory*
- (Planned). Totality and German Idealism: The French Reading of a Germanic Ideal. *New German Critique*
- (Planned). The Enlightenment Origins of Knowledge, A Genealogy of Political Knowledge from the East in the cases of Kant and Hegel. *Journal of the History of Philosophy*
- (Forthcoming). The Power-Play of Seyn (Be-ing) and Esti gar einai (For Being Is Taking Place): A Re- assessment of Heidegger's misreading of Plato's Cosmology and the Power of Metaphysics. *New Classicists, King's College London Postgraduate Journal*

- (Planned). Plato's Authorial Self and Alcibiades I: Commentaries on the Self in Proclus and Olympiodorus. *Ancient Philosophy*
- (Forthcoming). Artifice: Francisco Suárez and Heidegger's Modernity of Metaphysics, A Baroque contribution to the downfall of Scholastic thought. *Knowledge, Scholarship, and Science in the Middle Ages (KSS)*, Brepols Publishers
- (Planned). Contributive Economy in Fredric Jameson and Bernard Stiegler. *New German Critique*
- Squires, Claire & Coopey, Jack (Submitted). The Anarchic Life Drive: Freud, Lacan and Stiegler. *French Psychoanalysis Society*

Other (Digital/Visual Media)

- (2019). (Documentary Film Participant, Hollywood, Durham, 2019) Film Interview by Susan Kuscera, Financial Capitalism and Future Ecology, Centre for Cultural Ecologies.

Presentation

- (2019), Foucault and Ancient Philosophy of Law, Société Internationale Fernand de Visscher pour l'Histoire des Droits de l'Antiquité. University of Edinburgh from 2 – 7 September 2019.
- (Accepted), The Enlightenment Origins of Knowledge, A Genealogy of Political Knowledge from the East, ISECS International Congress on the Enlightenment 15-19 July 2019. University of Edinburgh, Scotland.
- (Accepted), The Power-Play of Seyn (Be-ing) and Esti gar einai (For Being Is Taking Place): A Re-assessment of Heidegger's misreading of Plato's Cosmology and the Power of Metaphysics, AMPAL 2019 'Power Play in the Ancient World' Thursday 13th - Friday 14th June 2019. University of Leeds, England.

Professor Charlotte Roberts

Chapter in book

- Roberts, C.A. (Accepted). Bioarchaeology. In What to anthropologists do?. Strang, V. Berg.
- Roberts, C.A. (Forthcoming). Paleopathology and the Coming Crisis? Understanding the Third Epidemiological Transition. In The Routledge Handbook of the Bioarchaeology of Environmental Change. Schug, G. Routledge.
- Roberts, C.A. & Buikstra, J.E. (Submitted). History of tuberculosis from the earliest times to the development of drugs. In History of tuberculosis from the earliest times to the development of drugs. Davies, P.D.O. Barnes, P.F. & Gordon, S.B. Hodder Arnold.
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Professor Carole Torgerson

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