Bridging the Gap

PRESENTING – CONNECTING – NETWORKING – COLLABORATING

Doctoral College Conference 2019

Tuesday 9 July and Wednesday 10 July
Austin Pearce Building

For more information please contact us:
bridgingthegap2019@surrey.ac.uk
To help the conference run as smoothly as possible, please be aware of the following:

- We want you to enjoy the conference and get to everything that interests you, so we have allowed an extra 5 minutes between the oral presentations to give you time to move rooms if you need to.
- Welcome address and keynote speakers are in Room 1.
- Posters and refreshments are in Room 3 and the Foyer.
- Oral Presentations are in Rooms 1 & 2.
- If you are tweeting the event, please use #BridgingtheGap2019 and follow @SurreyDocCol
- If you have any queries or need assistance on the day, please visit the registration desk or speak to any of the committee members.
- In an emergency, please contact security on +44 (0)1483 683333.

**Wifi**

How to access The Cloud wi-fi network when on campus:
- Switch on your smartphone, tablet or other wi-fi device and check that wi-fi is enabled.
- Select ‘The Cloud’ from the available network list.
- Open your internet browser – The Cloud landing page will appear. If it is your first time using The Cloud wi-fi network, follow the simple one-time registration process or log in.

### Keeping it environment friendly

A two day conference can produce up to 2850 kg of waste and we want to make a serious effort to reduce this.

Our aim this year is to make this year’s conference as sustainable and eco-friendly as possible.

We have taken the following steps to help achieve this goal:
- Encouraged delegates to make use of public transport to get to the University.
- Asked all conference delegates to bring their own reusable cups and refillable water bottles.
- Made use of sticky labels name tags to do away with single use plastic name tag holders.
- Provided lunch in compostable bags to reduce washing up.
- Provided designated bins for all waste.
- Ensure delegate goodie bags meet the sustainability criteria.
- Encouraged delegates to make notes on their phones or tablets rather than on paper.

We would really appreciate all your co-operation in this regard.

To find out more about sustainability at the University of Surrey, and what you can do to help, visit surrey.ac.uk/sustainability.

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**Welcome**

TO BRIDGING THE GAP 2019

Bridging the Gap is this year’s Doctoral College Conference at the University of Surrey. We are especially pleased to have 18 international presenters joining us this year, courtesy of generous sponsorship from Santander.

This year’s conference is a jam-packed event! Each contribution to the program has been carefully selected to support the conference theme of Bridging the Gap, in surprising and thought-provoking ways. They fill knowledge gaps, bridge the divide between disciplines and make meaningful connections to the world beyond academia.

So what can you look forward to?
- 2 Keynote addresses that will blow your mind. One from Dr Milton Mermikides who sees science in music and music in science, and the other from Professor Jim Al-Khalili OBE FRS who makes the mysteries of quantum as plain as daylight.
- 40 oral presentations on topics ranging from building a culture of sustainability on campus, and using neuroscience to improve classroom feedback to collaboration in self-organising software systems and keeping automated service encounters people friendly.
- 24 poster presentations covering topics like the experiences of women international education, blocking the entry of the cold sore virus, the effects of quantum coherence in light harvesting systems and the role of adrenergic signalling in promoting T-cell senescence.
- Many opportunities to connect formally and informally in conference sessions, over lunch, during coffee breaks and in the interactive networking sessions run by the Institute of Directors.
- A Curry and Comedy evening of casual chatting, delicious grub and a good dose of laughter.
- A panel discussion on the Ups and Downs of the PhD Journey from first year challenges to post-doc possibilities.

We do hope you enjoy the event and leave the conference with much to think about and many new connections that will enrich your own research initiatives.

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**DOCTORAL COLLEGE CONFERENCE COMMITTEE**

**CHAIR**
Claudia Davidson

**VICE-CHAIR AND COMMUNICATIONS**
Lisa Pomford

**PRESENTATIONS**
Maryam Mirhadizadeh
Chelsea Dainton

**LOGISTICS**
David Gyorfi

**REGISTRATION**
Dr Hannah Newman
Timothy Chukwu
Dr Milton Mermikides is a composer, guitarist and educator in a wide range of musical styles. Son of a CERN nuclear physicist, he was raised with an enthusiasm for both the arts and sciences, an eclecticism which has been maintained throughout his teaching, research and creative career. He is a graduate of the London School of Economics (BSc), Berklee College of Music (BMus) and the University of Surrey (PhD). He has lectured, exhibited and given keynote presentations to captivated audiences at the Royal Academy of Music, the British Library, TedX, Hong Kong Academy of the Performing Arts and the Smithsonian Institute. In addition, his work has featured in Times Higher Education and on the BBC and he has won awards and commendations for writing, teaching, research and charity work. Milton is Senior Lecturer of Music at the University of Surrey, Professor of Jazz Guitar at the Royal College of Music, and lives in London with his wife, the guitarist Bridget Mermikides, and his daughter Chloe, a 6-year old experimental noise-artist.

Prof. Jim Al-Khalili OBE FRS is a quantum physicist, author and broadcaster. He was recently endowed with one of the new Surrey Distinguished Chairs and has been a professor of physics since 2005. He received his PhD in nuclear reaction theory in 1989 from Surrey and has published widely in the field. He is a Fellow of the Institute of Physics and the current president of the British Science Association. A recipient of the Royal Society Michael Faraday medal, the Institute of Physics Kelvin Medal and the inaugural Stephen Hawking Medal for Science Communication, he is also the author of twelve books, translated into over twenty languages. Among these publication is his first novel (a science fiction thriller, Sunfall). A regular presenter of TV science documentaries, he is probably best known among the wider public as the presenter of the long-running weekly BBC Radio 4 programme, The Life Scientific. He is currently co-director of the Surrey Leverhulme Doctoral Training Centre for Quantum Biology where he is still trying to make sense of quantum mechanics.
TUESDAY 9 JULY

9.30am Registration Room 3 & Foyer
10am Housekeeping Room 1
10.10am Welcome address Room 1
David Sampson
10:30am Keynote address Room 1
Dr Milton Mermikides – Following the Heard: the Music of Research
Dr Milton Mermikides
11:10am Refreshments & Poster Presentations Room 3 & Foyer
11:40am Session 1 Room 1
Nicola Andreij Rieg FEPS - Embedding Sustainability in Organisational Culture: The University of Surrey
Cheima Bouchrara FASS - Persuasion in Courtroom Discourse: Uncovering Discursive and Linguistic Patterns in Closing Arguments in US Criminal Trials.
Aarni Tuomi FASS - Keeping Humans in the Loop: Automated Service Encounters
Marilena Hadjittofi FHMS - An Interpretative Phenomenological Approach (IPA) study exploring how nursing and midwifery students experience disgust
Matthew Hall FASS - Bridging the real and the virtual: measuring the violence and entitativity of right-wing extremist groups
Eleanor March FASS - Bridging the gap? A study of UK prisoner writing
Laura Carter FHMS - Interoceptive Confusion: A New Framework for Understanding Perception of Internal Body Sensations
Xiaosong Li (China) FEPS - Hybrid multi-scale technique and convolutional sparse coding for image fusion, denoising and enhancement

12:55pm Lunch and Poster Presentations Room 3 & Foyer
1:45pm Session 4 Room 2
Jesus Enrique Juyumaya Fuentes (Chile) FASS - Big data and predictive analytics for work engagement, job satisfaction and performance
Judith Popova FASS - Blurring borders. Citizenship and Transculturalism in Muriel Spark’s ‘The Driver’s Seat’
Hadi Abubakar Abba FEPS - An Assessment of Metakaolin Stabilised Black Cotton Soil for Road Construction
Katherine Lambert FHMS - Parents’ experience of having a child with the dual-diagnosis of Down’s Syndrome & Autism Spectrum Disorder (ASD): A Narrative Analysis.
Juan Torres-Batlle FEPS - Evapotranspiration losses in the Lake Poopó catchment, observed through remote sensing.
Paul Victor Patinadan (Singapore) FHMS - Understanding and Facilitating Dignified Death and Holistic End of Life Care
Heather Ballantyne FASS - “Becoming Other”. Gothic embodiment in contemporary fictional portrayals of anorexia nervosa

3pm Refreshments & Poster Presentations Room 3 & Foyer
3:30pm Session 5 Room 1
Isabella Silva (Brazil) FHMS - Connecting health and education: a playful resource for giving voice to children and adolescent
Marine Diana FEPS - Searching for carcinogenic disinfection by-products in drinking water
Priyanki Ghosh FASS - A UK based study into international student participation in theatre activities within university theatre societies and its impact on their challenges and sense of belonging
Gavrielle Untracht FHMS - High-resolution extended depth of focus probe for optical coherence tomography using an inverted axicon to increase working distance

Session 6 Room 2
Rubén Tamboleo Garcia (Spain) FASS - Effect(s) of the populist message with a manipulation experiment: how it can affect public opinion in Spain
Francesca Treisan FHMS - Up and down the social ladder: how the subjective social status influences students’ identities and relations
Yen Nee Wong FASS - Engendering queer identities and sexualities through dancing bodies
Toby Jungius FASS – Ray Harryhausen’s Sympathetic Portrayal of the Stop-motion Creature

4:45pm Let’s Connect Room 1
The Brilliant Club - Dr Andrew Fleming
Surrey Arts & Humanities Research Group - Eleanor March
The Reproducible Research Society - Marta Topor
Networking - Dr Allin Groom of the Institute of Directors.

5:45pm Wine reception Lakeside Foyer
6:30pm Curry and Comedy Lakeside restaurant
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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
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<tbody>
<tr>
<td>9:30am</td>
<td>Registration</td>
<td>Room 3 &amp; Foyer</td>
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<tr>
<td>10am</td>
<td>Housekeeping</td>
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<td>10.10am</td>
<td>Keynote speaker</td>
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<td>Prof. Jim Al-Khalili OBE FRS - The Nature of Quantum Reality</td>
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<td>10:50am</td>
<td>Speed networking</td>
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<td>Refreshments &amp; Poster Presentations</td>
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<td>11:40am</td>
<td>Session 7</td>
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<td>Gong Zhang (Singapore) FEPS - Bridging the Gap Between Quantum Communication and Modern Life</td>
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<td>Chelsea Dainton FHMS - Using neuroscience to improve feedback in the classroom</td>
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<td>Francisco Salvador de la Fuente Cardona (Spain) FASS - Bridging the gap between criminalization and solidarity in the Europe’s southern border</td>
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<td>Olga Franczak FASS - Stereotypical roles – a feminist perspective on the role of law in eradication of harmful gender stereotypes</td>
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<td>12:55pm</td>
<td>Lunch &amp; Poster Presentations</td>
<td>Room 3 &amp; Foyer</td>
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<td>1:45pm</td>
<td>Session 9</td>
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<td>Amelia Dennis FHMS - The influence of attachment insecurity on nostalgia</td>
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<td>Ammarah Farooq FEPS - Artificial Intelligence assisting in Urban Security</td>
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<td>Luca Castellanza (Germany) FASS - Opportunities as alignment: A relational constructionist approach to entrepreneurship</td>
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<td>Mona AlJuwair FHMS - Patients as active partners in decision-making: a qualitative study of patients’ and clinicians’ perspectives in a diabetes centre in Saudi Arabia</td>
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<td>3pm</td>
<td>Refreshments &amp; Poster Presentations</td>
<td>Room 3 &amp; Foyer</td>
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<td>3:45pm</td>
<td>The PhD Journey - PANEL DISCUSSION</td>
<td>Room 1</td>
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<td>4:45pm</td>
<td>Closing Address &amp; Remarks</td>
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<td>Closing address - Prof. Chris France</td>
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<td>Thanks and farewell - Claudia Davidson</td>
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<tr>
<td>Time</td>
<td>Poster Session</td>
<td>Presenter/Title</td>
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<td>11:10am</td>
<td>Chunping Bush: The EU-China BIT: towards a Win-win for the Global Business Community</td>
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<td>11:20am</td>
<td>Zahra Shirgholami: Getting on the right track: MNCs on the path to end forced labour in supply chain</td>
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<td>11:30am</td>
<td>Phillip Morgan: Investigating the role of adrenergic signalling in promoting T-cell senescence</td>
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<td>12:55pm</td>
<td>Timothy Chukwu: The Utility of Participatory Approach in Air Quality Assessment For Sustainable Development</td>
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<td>1:05pm</td>
<td>Alfred Loveland: Exploring the experiences and attitudes of primary school pupils towards autistic peers in the mainstream school setting</td>
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<td>1:15pm</td>
<td>Evelin Tomás Nery: Investigation of quantum coherence effects in light harvesting systems</td>
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<td>1:35pm</td>
<td>Joanne Kite: Blocking the entry of the cold sore virus into human skin</td>
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<td>3pm</td>
<td>Michael Clarke-Whitett: Investigating the role of 3’ untranslated regions in ‘noisy’ post-transcriptional pathways</td>
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<td>3:10pm</td>
<td>Penelope Franklin: Enhancing nurses’ ability to connect with parents to help them to prepare and support dependent children before, and after, the death of a parent.</td>
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<td>3:20pm</td>
<td>Pooja Pooja: Identification of novel combinatorial drug targets in Mycobacterium tuberculosis</td>
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**Tuesday 9 July**

**Room 3 & Foyer**

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<thead>
<tr>
<th>Time</th>
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<th>Presenter/Title</th>
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<tbody>
<tr>
<td>11:10am</td>
<td>Belen Sobrino (Spain): The narratives of care and, it impact in the framing of care policies as a driver for achieving substantive equality</td>
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<td>11:10am</td>
<td>Mehemet Tas: Probing Microchips at Wafer Level using Carbon Nanotube-Metal Hybrid Micro-springs</td>
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<td>11:20am</td>
<td>Sabrina Berres (Germany): Why is the sleep benefit in episodic memory for children with ADHD lower than for typically developing children?</td>
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<td>11:20am</td>
<td>Valeria Mastrullo: Human Vascular Pericytes Express a Circadian Rhythmicity</td>
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<td>11:30am</td>
<td>Cigdem Cimenoglu (Singapore): Re-purposing of Frog-Skin Derived Collagen for Wound Healing Applications</td>
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<td>11:30am</td>
<td>Umar Abdulmutalib: Engineering Microbial Communities For Polyethylene Terephthalate Plastic Biodegradation</td>
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<td>12:55pm</td>
<td>Rolando Szilveszter Matos: Development of an ex-vivo Model of vascular remodelling</td>
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<td>1:05pm</td>
<td>Sarah-Jane Stewart: Weight bias revisited: A psychometric re-conceptualisation</td>
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<td>1:15pm</td>
<td>William Hinton: Inclusion criteria in SGLT2-inhibitor Cardiovascular Outcome Trials (CVOTs); comparing “apples and oranges” in a national diabetes cohort</td>
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<td>1:35pm</td>
<td>Aloysius Loglo: The Role of Diet in the Pathogenesis of Buruli Ulce</td>
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<td>3pm</td>
<td>Anna Hayes (USA): Experiences of Women in International Education: A Qualitative Study</td>
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<td>3:10pm</td>
<td>Renan Colucci (Brazil): On the impact of ionic specie in organic electrochemical transistor</td>
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<td>3:20pm</td>
<td>Samira Jaber (China): Closing the loopholes while engaging in a new research area</td>
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In 2019-20, The Brilliant Club will work with its 2000th PhD tutor – this could be you! The Brilliant Club is an award-winning charity that aims to help pupils from under-represented backgrounds access university. Through its Scholars Programme, PhD researchers are trained to tutor and support these pupils, and so open the doors for them to higher level education opportunities. In addition to valuable teaching experience, tutors also earn £500 per placement (plus travel expenses). For more information: www.thebrilliantclub.org apply@thebrilliantclub.org

What happens when the University of Surrey’s world-class researchers share the stage with side-splitting comedians? Researchers from the University gather at a local pub where they are given just a few minutes each to spin their specialism into comedy gold, and hopefully teach something along the way. Entertaining evenings combine comedy, science, research and music, as comedians and musicians share the stage with the University’s best and brightest. For more info contact Ross Kelway at: r.kelway@surrey.ac.uk

Surrey Arts & Humanities Research Group (SAHRG) is a PGR-led hub for sharing interdisciplinary research within the arts and humanities. The aim is to encourage researchers in these faculties to share cutting-edge work in their field (often their own work in progress), at our monthly seminars. Each seminar focuses on a broad theme and allows opportunity for lively discussion. These seminars are open to all undergraduate and postgraduate students and staff at the University of Surrey. All are welcome. For more information follow us on Twitter: twitter.com/Surrey_SAHRG or visit ahrbgblog.wordpress.com

The Reproducible Research Society aims to encourage research students from all disciplines to engage in open discussions on reproducible research methods. The Society will host meetings, workshops, seminars and demonstrations alongside its journal club, ReproducibiliTea, and a regular newsletter. This initiative forms part of a wider movement currently taking root at many other universities. The society will represent the University of Surrey within this thriving community of PGRs and ECRs working towards reproducible, open and transparent science across the country. For more info contact: m.topor@surrey.ac.uk

The Institute of Directors (IoD), whose members have hosted the Conversation Corner, the Q&A board and facilitated that Networking sessions for the conference. All this is very much in line with their ethos and purpose. The Institute of Directors (IoD), provides the opportunity for students (including MBAs, PGRs and ECRs) to share ideas, gain leadership insight and build professional networks. This is achieved by engaging with academic & business leaders outside the University through our links with the local IoD Community. We recognise that planned serendipity transforms luck into opportunity. We provide the catalyst for those ideas.

Santander for once again so generously funding the attendance of our international presenters, making it possible for them to share their research with the conference.

And Lakeside Restaurant for keeping us so wonderfully well fed and watered!

twitter.com/SurreyU_InstDir
IOD_surrey@surrey.ac.uk
Disclaimer

We’ve made all reasonable efforts to ensure that the information in this publication was correct at the time of going to print in June 2019, but we can’t accept any liability for any inaccuracies in the information published, and the information might change from time to time without notice.

For the latest and most up-to-date information, please visit our website at: surrey.ac.uk