

THE **DOCTORAL**
ACADEMY



Postgraduate Research Festival 2022

11th May 2022

Maritime Museum, Liverpool



@LJMU_PGRs

#PGRFest22

Welcome

The Doctoral Academy warmly welcomes you to its annual festival for postgraduate researchers. As well as showcasing some of the research underway in LJMU's doctoral community, the programme reflects some of your broader concerns: from peer support networks to making an impact through research.

Postgraduate researchers from across our five faculties have collaboratively planned this festival. We would particularly like to thank the PGR reps on the Planning Committee who have done an excellent job of consulting with the PGR community to put together the programme. Other PGRs have volunteered time to lead activities or discussion sessions and many more are contributing to the day by attending and supporting peers. And of course, thanks to the speakers and presenters for sharing their time and expertise with us.

Prof Julie Sheldon, Dean of The Doctoral Academy

Planning Committee

The Doctoral Academy

Faculty of Health PGR Reps:

Shelley O'Connor (Nursing & Allied Health)

Jessie Smith and Charlotte Bigland (Public Health Institute)

Bethany Donaghy and Laura Mulligan (Psychology)

Faculty of Engineering and Technology PGR Reps:

Andrew Spiteri and Stefanos Charkoutsis (Engineering)

Faculty of Science PGR Reps:

Christopher Forshaw (Biological & Environmental Sciences)

Dan Bannell (Sport & Exercise Sciences)

Faculty of Business & Law PGR Reps:

Bo Wen and Mollie Bryde (Business School)

Faculty of Arts, Professional and Social Studies PGR Reps:

Andi Armitage (Education)

Katie Taylor (Humanities & Social Sciences)

Cristina Silvestri (Justice Studies)

Thanks also to the following PGR reps for additional support on the day at the 'meet your reps' stands: Laura Sheehy (BES rep), Helen Walsh (LSS rep), Jackie McWilliams (HSS rep) and Joanne Vincett (LBS/DBA rep).

Programme

9:00-9:30

Registration

(Reception; tea and coffee in Dining Room)

9:30-10:00

Welcome and networking activity

(Event Space)

10:00-11:00

'Making a difference with research impact'

A panel of LJMU academics discuss the ways in which their research has made an impact. Prof Patryk Kot (Civil Engineering & Built Environment), Dr Pooja Saini (Psychology), Prof Judy Madden (Pharmacy & Biomolecular Sciences) and Chris Chadwick (Screen School), chaired by Emily Walker, Impact Officer
(Event Space)

11:00-11:45

Parallel sessions led by PGRs:

Session 1: Round table discussion: PGRs, disabilities and special educational needs (Event Space)

Session 2: The doctoral journey: sharing the experience
(Lecture Theatre)

11:45-12:00

Break

(Dining Room)

12:00-1:00

Poster session

A chance to speak to PGRs about their work and vote for a 'People's Choice' winner
(Dining Room)

1:00-2:00

Lunch

with the chance to 'meet your PGR reps' from 1:30-2:00 and to meet staff from various student support teams
(Event Space and Dining Room)

2:00-3:30

Three Minute Thesis (3MT) Competition Final

Fast-paced research communication competition, challenging PGRs to present on their research and its significance in just 180 seconds. Audience members can vote for a 'People's Choice' winner
(Event Space)

3:30-4:00

Break

(Dining Room)

4:00-4:45

Keynote Speaker

Dr Xine Yao, 'Undisciplining Solidarity: Institutions Will Never Love You Back'
(Event Space)

5:00-6:30

Closing words: Prof Keith George, PVC Research & Enterprise

Prizes and drinks reception

(Event Space and Dining Room)

Speaker and session details

Making a difference with research impact

10:00-11:00, Event Space

Professor Patryk Kot

Patryk is a Professor of Microwave Sensor technologies and Deputy Director of the Built Environment and Sustainable Technologies (BEST) Research Institute at LJMU. He also leads multiple externally funded research projects in structural health monitoring, material characterisation and healthcare. The focus of his talk today is on novel non-destructive sensor platform for characterisation of insecticides and biohazards deposited on building materials.

Dr Pooja Saini

Based in the School of Psychology, Pooja's research is focused on risk management and decision-making processes for individuals, professionals, and service providers within forensic, clinical and non-clinical settings. Her main research interests are in suicide and self-harm prevention particularly in young people, cancer prevention in Black and Asian Ethnic Minority Groups, reduction of health inequalities and coproduction.

She collaborates with key mental health charities and Public Health Departments, and is a member of a Suicide Prevention Operational Group and Support After Suicide Task Group which aims to integrate suicide prevention and postvention initiatives in Cheshire and Merseyside across mental health charities, NHS trusts, public health departments, transport networks, and local councillors.

Professor Judy Madden

Judith Madden obtained a dual honours degree in chemistry and pharmacology from the University of Sheffield before completing a PhD in computer-aided drug development at Liverpool John Moores University. She then worked as a post-doctoral research associate at the University of Manchester before returning to LJMU where she is now Professor of In Silico Chemical Assessment. Her research interests are in developing computational models that can help to reduce animal testing; she is also the editor-in-chief of the journal ATLA - Alternatives to Laboratory Animals.

The subject of her talk is how computational models can be developed to predict the effects of chemicals on humans, animals and the environment and how that information can be used to reduce animal testing in many different sectors.

Chris Chadwick

Chris Chadwick is a documentary film director, filmmaker, Director of Photography and new media producer. His research interests are in interactive documentary, immersive and innovative documentary storytelling, new media convergent platforms and cinematography. The focus of his talk today is Racing the King Tide (www.racingthekingtide.com), an

international research project that re-frames the approach to adaptation to sea-level rise. The first-hand experiences of Islanders in Tubigon, Philippines adapting to sea-level rise caused by the 2013 Bohol 7.2 earthquake are documented through documentary film, photography and 360 VR. The research project questions the impact of traditional film documentary and immersive 360 VR documentary as a resource to influence the local Philippine Government's response to the detrimental effects of natural disaster.

PGR-led parallel sessions

1. Round table discussion: PGRs, disabilities and special education needs

11:00-11:45, Event Space

Raising awareness of disabilities, special educational needs and available support, students Bethany Donaghy (Psychology PGR), Shaunna Devine (Psychology PGR) and David Law (Astrophysics Research Institute PGR), and staff member Dr Tori Sprung (Academic staff & EDI Strategic Lead in School of Sport & Exercise Sciences) discuss their own experiences as disabled students/staff and hope to highlight the support available in LJMU and how this has been useful to them.

Come to this round table discussion for a safe space to openly discuss disability and share resources for support! This is also a great opportunity to learn about the barriers disabilities impose; even if you yourself are not disabled this may help you learn how to be a supportive peer, colleague and/or ally. Everyone is welcome.

2. The doctoral journey: sharing the experience

11:00-11:45, Lecture Theatre

Led by PGR Representatives Andrew Spiteri (Engineering), Stefanos Charkoutsis (Engineering), Bo Wen (Business School) and Shelley O'Connor (Nursing & Allied Health), this session will cover the PhD experience. Reps will be talking about life as a PhD student during different stages of the PhD, how to be more efficient, and sharing general advice based on their experiences.

Keynote speaker: Dr Xine Yao

Dr. Xine Yao is Lecturer in American Literature to 1900 as well as co-director of the queer studies network qUCL at University College London. Their first book is *Disaffected: The Cultural Politics of Unfeeling in Nineteenth-Century America* which has won Duke University Press's Scholars of Color First Book Award (Duke UP 2021). Her honours include the American Studies Association's Yasuo Sakakibara Essay Prize and their research has been supported by grants from the Social Sciences and Humanities Research Council of Canada. She is a BBC Radio 3/AHRC New Generation Thinker and the co-host of PhDivas Podcast.

Posters

Posters will be on display throughout the day, with a poster session from 12:00-1:00 where you can talk to poster presenters. All posters are also available on the Doctoral Academy website: <https://bit.ly/PGRFest22>

Early-stage PGR posters (1 st year or part-time equivalent)	
1. Anita Morris (Nursing & Allied Health/NAH)	Falconry as a therapeutic intervention for autistic children and young people.
2. Bethany Donaghy (Psychology/PSY)	Pain in autistic children: interviews with child-parent dyads
3. Sam Alder (Sport & Exercise Sciences/SPS)	'The ascent of woman': developmental activities and perceptions of female youth soccer players
4. Oluwaremilekun Adetayo (Education/EDN)	Evaluating the integration of digital pedagogies in the continuing professional development of English language lecturers: a case study of three universities in South-West Nigeria
5. Ning Yan (Engineering/ENG)	Online teaching: an assessment of teacher and student satisfaction
6. Zalihe Kamil-Thomas (NAH)	Race, ethnicity and experience of Higher Education
7. Andrew Davies (SPS)	Feasibility of integrating an <u>m</u> Health intervention to <u>i</u> ncrease exercise and physical <u>a</u> ctivity <u>a</u> dherence into a <u>w</u> eight <u>m</u> anagement service for <u>a</u> dolescents with severe obesity: MOTIVATE-WMA
8. Guangze Zhang (SPS)	Tactical behaviour of youth football players in small-sided games: floater player changes the team orientation
9. Reda Madroumi (PSY)	An examination of the key components of social support for patients living with T2D, a cross-cultural participatory action research approach
10. Zoe Bell (SPS)	Developing an industry specific, evidence-informed toolkit to improve the health of contact centre advisors
11. Norliza Mohd Salleh (SPS)	The effect of sedentary behaviour (SB) on maternal metabolic health and vascular function
12. Charlotte Haines (Public Health Institute/PHI)	Late diagnosis in Liverpool - investigating factors impacting blood-borne viral infection diagnoses and poor linkage to care in Liverpool
13. Hui Lui (Liverpool Business School)	Examining the glocalised marketing strategies of luxury fashion retailers in China

14. Liz Edwards (Liverpool Screen School/LSS)	Public good in the hands of the people: examining the transformative potential and inherent risks of community-owned social infrastructure in post-industrial northern towns
15. Gaynor Llewellyn-Jenkins (Humanities & Social Sciences)	The silencing of Susannah Darwin, née Wedgwood (1765-1817)
16. Geneva Beckford (LSA)	Intersectionality: toward a conscious curatorial praxis
17. Anna Houghton (LSA)	The sound of space /the space of sound
18. Martina Pizzolato (LSA)	Facial photo-comparison: a tool to identify victims of disasters
19. Molly Hawker (Computer Science & Maths/CMP)	Cracking the calcium code - data-driven modelling of calcium puffs
20. Elysia Greenway (LSA)	Recognising faces: advancing texture and display in forensic facial depiction
21. Si Gui (Pharmacy & Biomolecular Science/PBS)	The Ste20-like FvM4K1 regulates organ size via Hippo pathway in strawberry
22. Sian Phillips (Astrophysics Research Institute/ARI)	Characterising the first galaxies
23. Phebie Watson (PBS)	Assessing bacterial community structure in the presence of different fabrics associated with a murine analogue
24. David Law (ARI)	Using the experience of the LT to solve the NRT scheduling problem
25. David Hitchmough (ENG)	Floating on air: drag reduction for ships using air lubrication
26. Caighley Logan (PBS)	The changes to the appearance of bone due to the effects of fire or intense heat, both on the surface layer and microscopic
27. Bingyu Mu (ENG)	Towards an Ergonomic Interface in Ship Bridges



People's Choice Award

Vote for a People's Choice winner in the **Early-Stage PGR Poster** category here: <https://bit.ly/PostersEarly> or scan the QR code

Voting is open from 9:00am – 2:00pm on 11th May.

Mid- and later-stage PGR posters	
1. Harriet Dunn (EDN)	Opening up opportunities: PGCE secondary art and design trainees experiences of teaching pupils with visual impairment in art education
2. Bex Walker (SPS)	Co-producing 'The Walk-Along Project' with children with cerebral palsy (CP)
3. Toni Blackham (SPS)	Predictors of takeaway food consumption in an adult population in Liverpool
4. Zoe Swithenbank (PHI)	Smoking cessation in substance use treatment services
5. Jessie Smith (PHI)	How do neighbourhood social environments influence drinking behaviour?
6. Anna Powell (PSY)	Young, drunk, and fast: the paradoxical effects of hazardous drinking on cognitive performance in younger adults
7. Becky Self (NAH)	Service users' understandings and experiences of health care practitioners' right to conscientiously object to abortion
8. Loredana Frau (PSY)	Cognitive reserve, depression and executive functions: a 10-year follow-up study in 416 older adults
9. Lauren Coen (CMP)	AI-enabled glaucoma detection
10. Adam Mitchinson (CMP)	Mathematical model suggests mechanism of action for connexin mimetic peptide Gap27 to accelerate wound healing
11. Tianran Ren (ENG)	Cold chain packaging risk management
12. Richie Kirwan (Biological & Environmental Sciences/BES)	Genetically determined serum 25-hydroxyvitamin D is associated with total, trunk, and arm fat-free mass: a Mendelian randomization study
13. Paige Cole (SPS)	The effects of synthetic cannabidiol on skeletal muscle cells
14. Lucy Dowdall (BES)	Finding the balance between people and nature
15. Stamatia Galata (BES)	An open-source application of computer vision and machine learning algorithms to quantify microplastics
16. Karyono (Civil Eng & Built Environment/CBE)	Artificial Intelligence-based system to lower the energy use for thermal comfort
17. Nusrat Jannat (CBE)	Development of unfired brick with agro-wastes for tropical climate
18. Laura Sheehy (BES)	Selective symbiosis or a chance meeting? the relationship between worms, bacteria and their slug hosts

19. Courtney Thompson (BES)	Development of a tool to determine similar chemicals for physiologically-based kinetic (PBK) modelling
20. Emily Wharton (SPS)	COVID-19 Pandemic: A stair fall pandemic in older adults?
21. Jacqueline Richards (NAH)	A clearer view to COVID-19 domestic violence and abuse - gaining insight by using a visionary post-feminist lens
22. Ryan Clarke (LSS)	Precarious creative industries: the impact of Covid-19 on Liverpool's creative industries



People's Choice Award

Vote for a People's Choice winner in the **Mid-and Later-Stage PGR Poster** category here: <https://bit.ly/PostersLater> or scan the QR code

Voting is open from 9:00am – 2:00pm on 11th May.

Poster Judges

Dr Judith Enriquez, Education

Prof Zoe Knowles, Sport & Exercise Sciences

Prof Rosalind Jones, Liverpool Business School

Dr Ivan Olier-Caparroso, Computer Science & Mathematics

Three Minute Thesis Final



Judges

Prof Keith George, Pro-Vice-Chancellor (Research and Enterprise)

Dr Nicola Koyama, Biological and Environmental Sciences

Prof Claire Hannibal, Liverpool Business School

Katherine Stephan, Researcher Engagement Librarian

1. Shawn Toh (Engineering)	Moving towards a bionic future
2. Laura Abbate (Psychology)	Evaluating suicide postvention services
3. Hannah McLellan (Sport & Exercise Sciences)	Does one (exer)cise fit all? Understanding cardiovascular disease patients' response to exercise training
4. Elysia Greenway (School of Art)	Recognising faces: advancing texture and display in forensic facial depiction
5. Paul French (Law)	Terrorism panics, conspiracies and a surrendering of British values
6. Jade Thomson (Screen School)	Intimacy and sexual violence on the university stage
7. Mollie Bryde (Business)	Sustainable recovery: an ethical response to disasters
8. Courtney Thompson (Pharmacy & Biomolecular Sciences)	Development of a tool to identify similar chemicals for building new physiologically-based kinetic (PBK) models
9. Ashleigh Bellard (Psychology)	An impaired affective touch system in Anorexia Nervosa: a novel non-invasive brain stimulation intervention
10. Hannah Tang (Engineering)	Virtual Reality systems for lateral ankle sprains in athletes
11. Andrew Munro (Law)	Economic and social rights and the liberal democratic state: a complicated relationship?
12. Richie Kirwan (Biological & Environmental Sciences)	How our genes can reveal the secret power of our muscles

13. Simon Sanders (Screen School)	Red bracelet – a critical and creative exploration of Anorexia nervosa in males
14. Vicky Rheya (Education)	From the inside out: an autoethnographic exploration of the experience of home education
15. Karyono (Civil Engineering & Built Environment)	Artificial Intelligence-based system to lower the energy use for thermal comfort
16. Becky Self (Nursing & Allied Health)	Service Users' Experiences, Understandings and Opinions of Health Care Practitioners' Right to Conscientiously Object to Abortion
17. Luis Quinzo-Ortega (Biological & Environmental Sciences)	Management of adult and immature large pine weevil (<i>Hylobius abietis</i> L.) using novel local-provenance entomopathogenic fungi and commercial entomopathogenic nematodes
18. Anna Powell (Psychology)	“Shaken, not stirred”: Alcohol and cognition, and how impairments predict outcomes



People’s Choice Award

Vote for your favourite 3MT here: <https://bit.ly/PGR3MT22>
or scan the QR Code

Voting is open from 2:00pm-4:00pm