



## Newfoundland Orange

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## PROGRAMME

# Festival of PhD Research

10-11 May 2023

#UlsterPhDFest



## Wednesday 10 May 2023

9.30am	<b>Arrival &amp; Registration</b> Ground Floor, BC Building
10.00am	<b>Welcome &amp; Official Opening of Festival for PhD Research 2023</b> Professor Liam Maguire, Pro Vice Chancellor (Research and Innovation) Lecture Theatre 1, Ground Floor
10.10am	<b>Keynote: Professor Inger Mewburn</b> Lecture Theatre 1, Ground Floor Introduced by Professor Sonja McIlfratrick, Dean of Doctoral College
11.00am	<b>Coffee Break</b> Welcome Packs The Atrium, 3 <sup>rd</sup> Floor

11.30am	<b>Session 1: PhD Presentations (Parallel Sessions)</b>	
	<b>Session 1a:</b> Faculty of Computing, Engineering & Built Environment (CEBE) BC-03-026a, Atrium	<b>Session 1b:</b> Faculty of Life and Health Sciences (LHS) BC-03-115, Atrium

12.30pm	<b>Poster Presentations</b> Atrium	<b>Practice-based Exhibitions</b> Atrium
1.00pm	<b>Lunch in Atrium</b>	
1.45pm	<b>'Bake Your PhD'</b> Judges: Rachel Withers, Prof J Wallace and Marcus Lemon (Compass Catering) BC-03-115a	

2.30pm	<b>Session 2: PhD Presentations (Parallel Sessions)</b>		
	<b>Session 2a:</b> Faculty of Life and Health Sciences (LHS) BC-03-026, Atrium	<b>Session 2b:</b> Faculty of Computing, Engineering & Built Environment (CEBE) BC-03-115, Atrium	<b>Session 2c:</b> UU Business School (UUBS) BC-03-213a, Atrium

3.45pm	<b>Coffee Break</b>
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## PROGRAMME

# Festival of PhD Research

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4.00pm	<b>Session 3: PhD Presentations (Parallel Sessions)</b>	
	<b>Session 3a:</b> UU Business School (UUBS) <b>BC-03-026, Atrium</b>	<b>Session 3b:</b> Faculty of Computing, Engineering & Built Environment (CEBE) <b>BC-03-115, Atrium</b>

5.00pm	<b>Bake Your PhD Winner &amp; Closing Remarks</b> Dr Patrick Dunlop, Head of Doctoral College (Belfast) <b>Main Atrium Area</b>	
5.15pm Evening	<b>Pizza and Drinks</b> <b>Lecture Theatre 3, Ground Floor</b>  <b>Optional Social Events</b> <b>Cathedral Quarter Tour (Meet 6pm, BC Front Door)</b> <b>Quiz in CQ Social (7pm, Ground Floor)</b>	

## Thursday 11 May 2023

9.30am	<b>Arrival &amp; Registration</b> <b>The Atrium, Third Floor</b>
10.00am	<b>Welcome &amp; Official Opening of Day 2 of Festival for PhD Research 2023</b> Professor Alison Gallagher, Head of Doctoral College (Coleraine and Magee) <b>The Atrium</b>

10.15am	<b>Sessions 4a: PhD Presentations (Parallel Sessions)</b>		
	<b>Session 4a:</b> Faculty of Arts, Humanities & Social Sciences (AHSS) <b>BC-03-026, Atrium</b>	<b>Session 4b:</b> Faculty of Life and Health Sciences (LHS) <b>BC-03-115, Atrium</b>	<b>Session 4c:</b> Faculty of Computing, Engineering & Built Environment (CEBE) <b>BC-03-213a, Atrium</b>

11.15am	<b>Coffee Break</b> <i>Tea/Coffee/Scones</i>
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11.30am	<b>Session 5a: PhD Presentations (Parallel Sessions)</b>	
	<b>Session 5a:</b> Faculty of Life and Health Sciences (LHS) <b>BC-03-026, Atrium</b>	<b>Session 5b:</b> Faculty of Arts, Humanities & Social Sciences (AHSS) <b>BC03-115, Atrium</b>

12.30pm	<b>Posters and Practise-based Exhibitions</b> <b>Launch of publication: 'Between Matter and Words', Dr Gerard Gibson</b> <b>Atrium</b>	
1.00pm	<b>Lunch, <i>the Atrium</i></b>	
2.00pm	<b>Session 6a: PhD Presentations (Parallel Sessions)</b>	
	<b>Session 6a:</b> Faculty of Arts, Humanities & Social Science (AHSS) <b>BC-03-026, Atrium</b>	<b>Session 6b:</b> Faculty of Life and Health Sciences (LHS) <b>BC03-115, Atrium</b>
3.15pm	<b>Coffee Break</b> <i>Hot drinks/Shortbread/Fruit</i> <b>Ground Floor, outside Lecture Theatre 3</b>	
3.30pm	<b>Workshop with Professor Inger Mewburn: 'How to influence others with your research'</b> <b>Lecture Theatre 3, Ground Floor</b>	
6.00pm-6.45pm	<b>Three Minute Thesis (3MT®) Final</b> Hosted by Sarah Travers Formal Welcome by Vice Chancellor <b>Lecture Theatre 1, Ground Floor</b>	
6.45pm-9.00pm	<b>Closing Festival Event: Awards Reception</b> <ul style="list-style-type: none"> <li>• Music by Grainne Milner-McLoone, PhD Researcher</li> <li>• Presentation of Prizes for Outstanding PhD Thesis</li> <li>• Festival Prizes: Best Poster, Best Presentation</li> <li>• Announcement of 3MT® Winner, Runner Up and People's Choice Award</li> <li>• Closing Remarks by Vice Chancellor, Professor Paul Bartholomew</li> <li>• Entertainment by Emer Maguire</li> </ul> <b>The Atrium, 3<sup>rd</sup> floor</b>	

**Notes:**

- The Festival will begin at 10am sharp on Wednesday 10 May with a keynote taking place in Lecture Theatre 1 on the ground floor of BC building, Belfast campus.
- After the keynote, attendees will move up to the Atrium on the third floor for a coffee break and to collect Festival goody bags. The PhD Presentation sessions will take place in the rooms at either side of the Atrium and each room will be signposted accordingly.
- The posters will be displayed in the main Atrium area, as will the practise-based exhibitions. Catering will be provided in the Atrium area with different styles of seating.
- The last two sessions of the Festival on 11 May (workshop and 3MT Final) will take place on the ground floor in Lecture Theatre 3 and Lecture Theatre 1 respectively.
- The Festival Awards Reception event will take in the Atrium on the 3<sup>rd</sup> floor.
- The Library has quiet spaces for those who wish to use those throughout the Festival.
- Signage to the rooms will be clearly displayed. Campus navigators will also be on campus.
- The Festival Team is made up of Doctoral College staff and PhD Researchers from across all campuses – they will wear yellow lanyards.

# Session 1



## Session 1a

### Faculty of Computing, Engineering & Built Environment

Chair: Aoife McFerran

11.30am	<b>Hazhir Ebne-Abbasi</b> HySAFER	CFD Modelling of The Entire Fuelling Process at a Hydrogen Refuelling Station
11.45am	<b>Srinivas Siavaraman</b> HySAFER	Numerical Simulation of Pressure Recovery Phenomenon in Liquid Ammonia Tank
12.00pm	<b>Sameh Khalil</b> NIBEC	Synthesized MOF-derived Nanoporous Copper Oxides for Solar Energy Harvesting

## Session 1b: Faculty of Life and Health Sciences

Chair: Ross Fitzpatrick

11.30am	<b>Rachel Creighton</b> Medicine	Delivering enjoyable group-based physical activity programmes to older adults: a qualitative exploration of the views of exercise instructors
11.45am	<b>Emma McCay</b> Sport	The effectiveness of messaging for physical activity in adolescents: a systematic review
12.00pm	<b>Srinjaya Saha</b> Psychology	Attitudes to potential intervention components to promote physical activity and mindfulness in menopause

Abstracts at: <https://www.ulster.ac.uk/conference/festival-of-phd-research>

# Session 2



## Session 2a: Faculty of Life and Health Sciences

Chair: Emily Royle

2.30pm	<b>Shona Kaya</b> Pharmacy and Pharmaceutical Sciences	Utilisation of an in vitro blood brain barrier model
2.45pm	<b>Jane Fulton</b> Centre for Optometry & Vision Science (COVS)	The PreMO (Predicting Myopia Onset and progression) risk indicator reliably predicts future myopia in East Asian and UK children
3.00pm	<b>Nicola Watson</b> Geography and Environmental Science	Time for a Nappy Change
3.15pm	<b>Wuyun Zhu</b> Diabetes	Pancreatic polypeptide and its therapeutic potentials

## Session 2b: Faculty of Computing, Engineering and Built Environment

Chair: Christopher McCausland

2.30pm	<b>Alireza Poshtkahi</b> Computing	Mathematical Modelling of Human Neuroimmune System
2.45pm	<b>Kirsty Muldoon</b> NIBEC	Development of Hybrid 3D Printed Scaffolds with Aligned Drug-Loaded Fibres Using In-Situ Custom Designed Templates
3.00pm	<b>Senhui Qiu</b> Intelligent Systems	Deep Predictive Coding for Networks with Bi-directional Propagation
3.15pm	<b>Christopher O'Neill</b> Computing	Deep Learning Anomaly Detection in Space Data

## Session 2c: Ulster University Business School

Chair: Kinglsey Agoha

2.30pm	<b>Charlotte Finlay</b> Business and Management	Exploring the Building of a Cross-Sectoral Leadership Constellation Through the lens of Social Capital Theory
2.45pm	<b>Clare Rhine</b> Business and Management	Exploring the multidimensional impact of contextual factors on female entrepreneurs intention and behaviour in conflict impacted contexts, a case study in Shan state Myanmar
3.00pm	<b>Isaac Krofa</b> Business and Management	Human Capital Risk Reporting in Ghana: Creating Opportunities to Thrive while Minimising Exposure to Losses

3.15pm	<b>Brendan Whelan</b> Business and Management	Micro Enterprises and COVID-19: the case of adventure tourism on Ireland's Wild Atlantic Way (WAW)
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**Session 3a**  
**Ulster University Business School**  
 Chair: **Brendan Whelan**

4.00pm	<b>Kingsley Agoha</b> Business and Management	The role of entrepreneurial networks in rural tourism development in Northern Ireland
4.15pm	<b>Suzanne Kelly</b> Business and Management	From Connections to Innovations: The Role of Social Capital in Agri-Food Farmers' Success
4.30pm	<b>Clodagh Hegarty</b> Business and Management	Service Innovation in Small Medium Accountancy Practices
4.45pm	<b>Emmet Donaghey</b> Business and Management	From smart cities to inclusive urban communities – the role of big data & social marketing in creating equitable socio-economic change*

\*pre-recorded

**Session 3b**  
**Faculty of Computing, Engineering and Built Environment**  
 Chair: **Luigi D'Arco**

4.00pm	<b>Natasha Hamilton</b> Intelligent Systems	Utilising Brain Inspired Information Processing in Electronics to Develop Highly Reliable, low-powered Smart Sensor Systems.
4.15pm	<b>Sayali Avinash Chavan</b> Intelligent Systems	Computer Vision for Advertising Analytics
4.30pm	<b>John Doherty</b> Intelligent Systems	Autonomous Object Recognition for Robots
4.45pm	<b>Niall McShane</b> Intelligent Systems	3D Motion Trajectory Brain Computer Interface for Embodied Upper Limb Control*
5.00pm	<b>David Simpson</b> Intelligent Systems	Smart Watchdogs: Brain-inspired Autonomous Architecture for Resilient Electronic Systems

\*pre-recorded



# Session 4



## Session 4a: Faculty of Arts, Humanities and Social Sciences

Chair: Leah Rea

10.15am	<b>Catherine Turner</b> Linguistics/Social Policy	Communication, outcome, and experience: Exploring racial inequality in UK maternity care
10.30am	<b>Susan Hughes</b> Social Policy	The lived experience of self-directed support in Northern Ireland
10.45am	<b>Josie Scott</b> Criminology	How do the courts in Northern Ireland respond to victim/survivors of domestic abuse during the court process: the gap between expectation and reality from the victim/survivor's perspective

## Session 4b: Faculty of Life and Health Sciences

Chair: Oisín Cleary

10.15am	<b>Keelan Hall</b> Psychology	Social Categorisation and Stimulus Equivalence
10.30am	<b>Colette Duncan</b> Psychology	Mathematics in Preterm Pre-schoolers
10.45am	<b>Mary Webster</b> Psychology	Understanding family conflict in the context of dementia caregiving: The perspective of community care staff and volunteers

## Session 4c: Faculty of Computing, Engineering and Built Environment

Chair: Gulzar Alam

10.15am	<b>Aoife McFerran</b> Engineering	Investigating novel multi-functional coatings via LbL assembly for their use in bone tissue scaffold development to improve the mechanical integrity of open cell structures and enhance bone defect reparation through the incorporation of therapeutic agents.
10.30am	<b>Mark Gorman</b> Intelligent Systems Research Centre	Artificial Intelligence (AI) for Unsupervised Anomaly Detection in Semiconductor Manufacturing
10.45am	<b>Cody Spence</b> Engineering	The development of a novel dry fibre preforming technology for the production of complex multi-axis near-net shaped preforms through the modification and development of existing technologies.
11.00am	<b>Adam O'Boyle</b> Engineering	Examining the effects of tufting patterns on open hole tension in Carbon laminates



11.15am	<b>Javed Aqib</b> Computing	Exploring Spiking Neural Networks for Prediction of Traffic Congestion in Networks-on-Chip*
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\*pre-recorded



## Session 5a

### Faculty of Life and Health Sciences

Chair: Rachel Devenney

11.30am	<b>Evangeline Johnston</b> Personalised Medicine Centre	Developing more effective, less toxic drug combinations with statins as novel therapies in childhood leukemia
11.45am	<b>Jency Rajan</b> Personalised Medicine Centre	Drug Express: A bioinformatic pipeline to identify novel therapeutics for rheumatoid arthritis.
12.00pm	<b>Chloe Anderson</b> Personalised Medicine Centre	A sex stratified approach to drug repurposing for Alzheimer's disease
12.15pm	<b>Jonathan McLaughlin</b> Personalised Medicine Centre	Identifying predictive protein biomarkers for stratification of mental health disorders

## Session 5b

### Faculty of Arts, Humanities and Social Sciences

Chair: Adelaide Mensah

11.30am	<b>Natalie Wilson</b> Art and Design	Mapping the Environmental Art genre: A synthesis of literature into a comprehensive resource
11.45am	<b>Balthazar Lauzon</b> Linguistics	Child acquisition of perfect auxiliaries in French and Italian and implications for language change
12.00pm	<b>Patrick Moore</b> Music	Interactivity in music composition
12.15pm	<b>Alice Tennant</b> Art and Design	More than light and sound, the complexity of autistic sensory experience and the significance of accessible sensory environments.
12.30pm	<b>Siobhan Murtagh</b> Education	Designing and evaluating a Virtual Reality (VR) school transition tool for learners with autism spectrum disorder (ASD)

Abstracts at: <https://www.ulster.ac.uk/conference/festival-of-phd-research>

## Session 6



### Session 6a: Faculty of Arts, Humanities and Social Sciences

Chair: Cecilia Gialdini

2.00pm	<b>Cathal Coyle</b> Education	Knowledge and Skills for Life: Exploring how school libraries can create and support formal and informal learning opportunities for post-primary pupils in disadvantaged areas of Northern Ireland
2.15pm	<b>Leah Rea</b> Law/TJI	What Difference Does It Make? Examining the impact of constitutional conventions on Irish Language progression in Northern Ireland
2.30pm	<b>Lucia Piani</b> Politics	From Dissent to Consensus: Political development within republicanism, 1969-1986
2.45pm	<b>Natasha Black</b> Social Policy	What is the nexus between labour market participation and social citizenship and how does this impact upon integration outcomes of the refugee population resettled in Northern Ireland through the Syrian Vulnerable Person's Relocation Scheme?

### Session 6b: Faculty of Life and Health Sciences

Chair: Dr Holly Neill

2.00pm	<b>Erika Rosbotham</b> NICHE	Vitamin D-enrichment of sausages by pork offal: is it acceptable to consumers?
2.15pm	<b>Emily Royle</b> NICHE	Associations between total circulating 25-hydroxyvitamin D concentrations and muscle health outcomes in children.
2.30pm	<b>Shane Gordon</b> NICHE	Diet, nutrition and cognitive health in older adults: Shedding new light through systematic review and meta-analysis of intervention studies

Abstracts at: <https://www.ulster.ac.uk/conference/festival-of-phd-research>

## POSTERS

### The Atrium

*The posters will be displayed throughout the full two days of the Festival. There are 45 posters in total and they are grouped by Faculty. The PhD Researchers who have designed and published these posters are asked to be available on the noted slots in the programme so that Festival participants may engage with you and your research.*

### Faculty of Arts, Humanities and Social Sciences

1	<b>Marianna Espinós Blasco</b> Seeing gender and race (coloniality and whiteness) in peace and security. The politics of (in)visibility in the Women, Peace, and Security agenda
2	<b>Arhum Nadeem Khan</b> Role of Immersive Virtual Reality (IVR) in supporting science education in middle schools of Pakistan and Northern Ireland (NI)
3	<b>Liam Edwards</b> Judicial Review and the Devolved Nations
4	<b>Alice Tennant</b> Just what is cognitively accessible interface and experience design?
5	<b>Katrina Newell</b> Investigating strategies for delivering change through the practice of co-design with communities in the Northern Ireland context

### Faculty of Computing, Engineering and Built Environment

6	<b>Mina Kazemi</b> Numerical modelling of sustained hydrogen combustion and flame blow-off from a TPRD
7	<b>Sreehari Sreekumar</b> Performance enhancement of hybrid photovoltaic/thermal system with nanofluid for low-temperature applications
8	<b>Stephen Ross</b> Machine Learning Identification of Low Methane Emitting Dairy Cattle for Selective Breeding
9	<b>Frances Hasson</b> PEKK-Hydroxyapatite Composites for Patient Matched 3D Printed Medical Implants
10	<b>Muhammad Yunis Daha</b> AI for Physical Layer of 6G Communication Networks
11	<b>Callum Montgomery</b> 3D weaving of non-uniform architectures to enable morphing composite structures

12	<b>Eimear O'Donnell</b> Modelling the properties of 3D printed parts made with advanced materials
13	<b>Reshma McMullan</b> 3D printing of peek apatite composites for orthopaedic implants
14	<b>Sara Nasr</b> Development of bioinspired antifouling strategies for carbon/epoxy composite based hydrofoils
15	<b>Cameron Scott</b> Nanostructured Copper-Laser Induced Graphene Layers for the Electrocatalytic Reduction of Nitrate
16	<b>Muhammad Umer</b> Experimental Study of Biohydrogen from Biomass/Biowaste Through Biomass Electrolysis
17	<b>Ben James</b> Achieving Net Zero Retrofit in Northern Ireland
18	<b>Ryan Johnston</b> Zero Emission Neighbourhood decision making through virtual reality

## Faculty of Life and Health Sciences

19	<b>Seana Duggan</b> The development of leadership capabilities in pre-registration nursing students through practice learning experiences
20	<b>Lee Armstrong</b> The Role of miR-143-3p in Epithelial to Mesenchymal Transition in Prostate Cancer
21	<b>Mary Dunnion</b> An exploration of the out of hours discharge of older people from the emergency department
22	<b>Matthew Draper</b> GLP-1-glucagon co-agonism alters central glucose metabolism to amplify cytosolic calcium influx in pancreatic islet $\beta$ -cells
23	<b>Aoife Grenham McNamee</b> Assessing the Long-Term Developmental Outcomes and Wellbeing of Adolescents with Down's syndrome following Surgery for Congenital Heart Disease
24	<b>Rory Bradley</b> Using experience based co-design to develop a community-based exercise pathway for adults with neurological physical disability
25	<b>Sara Douglas</b> What is the impact of changing the test distance and limiting the time on visual acuity measurement?
26	<b>Mary Webster</b> A scoping review of family conflict in dementia care
27	<b>Chloe McClenaghan</b> Phase-shift nanoemulsions for the targeted treatment of pancreatic cancer
28	<b>Didier Fidele Uwacu</b> Using in vivo imaging to understand the mechanisms of ocular accommodation: Does target type affect results?"

29	<b>Sophie Carlin</b> Investigating the transcriptional landscape driven by RUNX1-RUNX1T1 gene fusions in AML patients
30	<b>Francis Marsh</b> Irish Athlete Transitions in the US Collegiate System
31	<b>Paula Taylor Miller</b> Capacity building programme in perinatal mental health: Feasibility pilot trial of a midwifery guided early online EMDR group intervention
32	<b>Darragh Harkin</b> 'Is There a Benefit to Prescribing Coloured Lenses for those with Symptoms of Visual Stress?' – Study Design
33	<b>Oisín Cleary</b> What are the Unmet Needs of Young Stroke? The Perspectives of Young Stroke Survivors
34	<b>Hannah Brown</b> An exploratory investigation of children's perceptions of their wellbeing.
35	<b>Rachel Devenney</b> Investigating the role of co-occurring mutations with mutant NRAS in acute myeloid leukaemia
36	<b>Ailis Stevenson</b> Alterations in the oral microbiome in individuals with schizophrenia
37	<b>Amy Doherty</b> The Epigenetic Impact of Childhood Adversities in Young Adults
38	<b>Lauren Hunter</b> Isolation of phytochemicals from heritiera fomes root with insulin releasing and glucose lowering effects for the treatment of type-2 diabetes
39	<b>Luke Hilman</b> Folic acid intervention during pregnancy alters DNA methylation, affecting neural target genes through two distinct mechanisms

## Ulster University Business School

40	<b>Kerri Grant</b> Investigate choice architecture interventions to influence healthier choices within the grocery environment using technologies
41	<b>Miriam Witts</b> Realising the Potential of Drama-Based Techniques for Workplace Learning in the hospitality Industry
42	<b>Conor McDaid</b> The influence of Effectual and Causal decision-making approaches on Dynamic Capabilities and Sustainability Performance of SMEs

# Practise Based Exhibitions



## PRACTICE-BASED EXHIBITIONS

The Atrium

*A number of PhD Researchers at Ulster are undertaking a PhD by practice. This exhibition gives these PhD Researchers the opportunity to share their research, to involve Festival participants in their research and give them the opportunity to engage with the work.*

**Lisa Robson**

The Ceramic Object: Re-explored, Re-engaged, Re-created.

**Claire Thompson**

Re-framing Troubles Art from a new perspective

**Grainne Milner-McLoone**

Local Tunes, Global Tales: Songs of Migration through the Sam Henry Collection

**Philip Arneill**

I Am Where I Am Not

**Helen Johnston**

Bound by threads

**Vikkie Patterson**

(Dis)embodiment

**Christopher O'Neill**

Earthquake Precursors: The Distant Echoes of Earth's Electro-magnetic Fields

Please note:

*The posters and exhibitions are located in the main Atrium space to enable accessibility and full participation in the Festival. The breaks and lunches will be held adjacent to the posters and exhibitions so that participants will have several opportunities throughout the two days to engage.*

## BAKE YOUR PHD

PhD Researchers will take part in the annual 'Bake Your PhD' competition at 1.45pm on Wed. Researchers can bake anything (e.g. cake or other baked goods) that visually depicts any aspect of their research (e.g. from the physical samples, findings, methods employed in the project, or the research topic concepts and ideas). Their baked creation will be judged on specific criteria. **Judges:** Dr Rachel Withers, Professor Jonathan Wallace, Marcus Lemon (Compass Catering) & Festival Team: Elizabeth Cowdean.

## ABSTRACTS

Abstracts for each of the posters and presentations are available to view online. They are listed in alphabetical order by surname. Abstracts are available to those with a University of Ulster email.



**#UlsterPhDFest**