

# 2022 Undergraduate Research Conference Programme



## Welcome

### [Access the online Research Conference Presentations](#)

This programme timetable provides you with some details of the conference live presentations held each day. We start on Tuesday 15th March with the official opening by [Professor Jane Taylor](#), and a welcome from [Professor Andy Schofield](#), the Vice-Chancellor of Lancaster University. This will be followed by our conference keynote address by [Dr David Sobral](#), from the Department of Physics at Bailrigg campus. We hope all of you will join us at the start for both the welcome and for David's talk as he sets the scene for the conference.

To accommodate international time zones, the conference runs each UK morning 9 – 12.30 (UK time). Each day Conference Advocates will host presenter's talks; this year we have two different formats for the talks:

**Spotlight on Presenters** is a great opportunity to find out more about the presenter research and presenters have 5 minutes to introduce themselves and their research.

**Global Research Insights** provides us with an opportunity to find out more about the research being undertaken, presenters have 15 minutes, which will give us insight into their research and time for questions and discussion.

Both sessions provides an opportunity for presenters to get feedback on their research and webpage presentations, so please do come along find out about something completely new and ask questions.

Additionally each day we will welcome a student to introduce each of the eight 8 Lancaster Partners. If you have ever wondered where our partners are, and what goes on at each of them, then join these sessions to find out.

[Professor Wendy Robinson](#) Pro-Vice-Chancellor for Education at Lancaster Bailrigg will formally close the conference and award prizes for the best conference research presentations.



Remember! Take a look at the **90 Poster presentations from across the world.**

[2022 UG Conference presentations website.](#)

**Tuesday 15<sup>th</sup> March:**

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9.00 – 9.15: **Professor Jane Taylor** Director of ICE welcomes

**Professor Andy Schofield, Vice-Chancellor**, Lancaster University

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9.15 – 9.45: Opening keynote. Introduced by our conference host for the day **Veselina Gergishanova** (Year 2, Lancaster Bailrigg - Politics, Philosophy and Religion).

[Dr David Sobral](#), Department of Physics, Lancaster, Bailrigg.

***The sky is never the limit for curiosity-driven (UG) research***

Where do we come from? What are we made of? For thousands of years these were met with answers focused on pleasant explanations that were able to stop us asking further questions. However, asking deep fundamental questions about us, the world and the Universe is fundamentally human and the true key to exploring what is above us.

While we naively think that only with multiple degrees, large sums of money and insanely big teams are we able to advance science and make discoveries, the reality is that all that is meaningless without our endless capacity and freedom to ask questions without needing an immediate answer. Excellent science can already be done even before University, and undergraduate students (UG) have some of the greatest potential to make truly breakthrough discoveries. In this talk, I will present and discuss some outstanding examples of scientific discoveries done by UG students in Physics and within the XGAL group (<http://xgal.uk>) during internships, group projects and Master's projects. With discoveries ranging from studying fossil stars and globular clusters as old as the Universe in our own Milky Way, to finding and studying some of the most distant galaxies, the work from these students clearly shows that the sky is not the limit and that curiosity and perseverance are the keys to seeing the things that no-one saw before.

09.50 – 10.25: **Spotlight on presenters:** Hosted by **Jin Wen Khu** (Year 2, Sunway University, Malaysia - Biological Sciences), **Di Wang** (Year 3, Lancaster Bailrigg - Linguistics and English Language) and **Jamie Rourke** (Year 2, Lancaster Bailrigg – Natural Sciences).

Presenters have 5 minutes to introduce their research and take questions

**Carrie Lee**, Y3, Leadership, Management and Lifestyle, Blackpool & The Fylde College:

[Plastic Pandemic: A Green Criminological Investigation into the Ecological Impact of COVID-1](#)

**Xin Ru Tan**, Y3, Psychology, Sunway University, Malaysia: [Essence of Flourishing: Exploring the Predictors of Psychological Flourishing among Malaysian University Students](#)

**Victor Dehon & Vikant Patel**, Y3, Engineering, Lancaster Bailrigg: [The importance of sustainability within the design process of Vinyl Acetate Monomer](#)

**Elizabeth Barr**, Y4, Aerospace Engineering, Blackpool and The Fylde College: [A Training Needs Analysis for In-Air Refuelling Training in a Synthetic Environment](#)

**Clio Johnson**, Y4, Theoretical Physics, Lancaster Bailrigg: [Initial Electron Distributions in Quantum Monte Carlo Simulations](#)

**Harriet Fletcher**, Y3, Ecology and Conservation (LEC), Lancaster Bailrigg: [Pain and Power: impacts of policing on HS2 activists](#)

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10.25 – 10.45: **Break**

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10.45– 11.15: **Campus Introductions**

Bailrigg Campus with **Maggie Mi**, BA Linguistics

Blackpool & the Fylde College, with **Colette Mazzola-Randles**

Beijing Jiaotong University, China with **BJTU students**

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11.20 – 12.25: **Global Research Insights:** Hosted by **Bryan Tze Lung Chen** (Year 2, Sunway University, Malaysia - Computing and Information Systems) and **Vanessa Yeboah** (Year 1, Lancaster University Ghana - Business Studies)

Presenters have 15 minutes to introduce their research and take questions.

**Maggie Mi**, Y3, Linguistics and English Language, Lancaster Bailrigg: [Diagnosing COVID-19 Using Speech](#)

**Ella Stanley**, Y2, Engineering, Blackpool and The Fylde College: [Project Politics - How to Play the Game in the 21st Century](#)

**Dani Kennedy, Stephen Byrne, & Ryan McAtasney**, Y4, Mechanical Engineering, Lancaster Bailrigg: [The extraction of Uranium from seawater using a biomass sorbent: dynamic tests in lab](#)

**Kieran Youd**, Y3, Art, Design & Media Blackburn College: [What is the effect of migrant art on the issues of migration](#)

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12.25: Thanks & what's happening tomorrow with **Veselina Gergishanova** (Year 2, Lancaster Bailrigg - Politics, Philosophy and Religion).

Wednesday 16<sup>th</sup> March

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9.00 – **Welcome** with our Conference host for the day **Jin Wen Khu** (Year 2, Sunway University, Malaysia - Biological Sciences)

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9.00- 10.30: **Global Research Insights:** Hosted by **Fiona Kusche** (Year 1, Lancaster University Leipzig – Management) and **Jamie Rourke** (Year 2, Lancaster Bailrigg – Natural Sciences)

Presenters have 15 minutes to introduce their research and take questions.

**Jasmine Yi Xin Tang**, Y3, Psychology, Sunway University, Malaysia: [FOMO as a new normal: Exploring the links between perceived social support, interdependent self-construal, and maximization with FoMO.](#)

**Olivier Marie-Considere**, Y3, Politics, Philosophy and Religion, Lancaster Bailrigg: [Security at the Euro-Mediterranean border.](#)

**Visvantini Kumaran**, Y3, Psychology, Sunway University, Malaysia: [Factors of loneliness: does social appearance anxiety, social media addiction and high expectations in relationships affect social and emotional loneliness](#)

**Andrea Ando**, Y2, Law School, Lancaster Bailrigg: [Outdated standards, poverty and the gender gap: a study on the consequences of inequalities on the Rule of Law](#)

**Manaswi Patil**, Y3, Computing and Communications, Lancaster University Bailrigg: [“Forecasting the Moon” – Predicting Cryptocurrency Trends Using Sentiment Analysis.](#)

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10.30 – 10.50: **Break**

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10.50 – 11.20: **Campus introductions**

**Sunway University, Malaysia** with **Joash Loh Hwei Kean**, BSc (Hons) Psychology

**University Academy 92, Manchester** with **Matthew Owen**, BA Hons journalism

**Lancaster Leipzig, Germany** with **Hala Al Kaisi**, BSc Software Engineering & **Fiona Kusche**, BA Business Management

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11.25 – 12.25: **Spotlight on presenters:** Hosted by **Vessy Gergishanova** (Year 2, Lancaster Bailrigg - Politics, Philosophy and Religion), **Di Wang** (Year 3, Lancaster Bailrigg - Linguistics and English Language) and **Tina Xu** (Year 1, Lancaster Bailrigg – Management Science)

Presenters have 5 minutes to introduce their research and take questions

**Lee Joshua Melo**, Y3, Lancaster Medical School, Lancaster Bailrigg: [Social barriers to pre-exposure prophylaxis uptake within sexual and gender minorities in the UK, with a particular focus on trans women and Afro-Caribbean men who have sex with men](#)

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**Jia Huey Gan**, Y3, Psychology, Sunway University, Malaysia: [Encourage learning in higher education online learning: The role of motivation and self-regulation in predicting academic achievement and perceived learning](#)

**Kathryn Ann Villacrusis Concepcion**, Y3, Marketing, Sunway University, Malaysia: [Social media as a tool for social change: A study on the drivers of Gen Z's in behavioural change](#)

**Feyisola Babarinde**, Y2, Lancaster Medical School, Lancaster Bailrigg: [What impact has the COVID-19 pandemic had on the psychosocial wellbeing of children and young people?](#)

**Isobel Forsyth**, Y3, Linguistics and English Language, Lancaster University Bailrigg: [The Pandemic, Mental Health and Marginalisation of Lancaster University's International Students](#)

**Sam Close**, Y4, Theoretical Physics, Lancaster Bailrigg: [Electromagnetic Pasta](#)

**Victoria Gatty**, Y3, Engineering and Science, Blackpool and The Fylde College: [Does a Global Pandemic, such as Covid-19, Impact the Identification Process of New and Emerging Leaders Within an Engineering Business such as BAE Systems](#)

**Fatmata Wanda Kamara**, Y2, Lancaster Medical School, Lancaster Bailrigg: [The Efficacy of Rituximab in Sjögren's Syndrome](#)

**Sophie-Liliane Rosenke**, Y2, Lancaster Medical School, Lancaster Bailrigg: [A new future for patients with cystic fibrosis](#)

**Lara Wade**, Y3, Politics, Philosophy and Religion, Lancaster Bailrigg: ["Rhetoric versus reality": Hypocrisy, compromise, and the Fourth Estate in Britain c1970 to 2021.](#)

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12.25: Thanks & what's happening tomorrow with **Jin Wen Khu**, Y2, Biological Sciences, Sunway University, Malaysia.

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Thursday 17<sup>th</sup> March

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9.00 – **Welcome** with our conference host for the day **Fiona Kusche** Y2,  
Management, Lancaster Leipzig

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9.00 – 10.10: **Spotlight on presenters:** Hosted by **Vanessa Yeboah**, (Year 1, Business Studies, Lancaster Ghana), **Tina Xu** (Year 1, Lancaster Bailrigg – Management Science) and **Bryan Tze Lung Chen** (Year 2, Computing and Information Systems, Sunway)

Presenters have 5 minutes to introduce their research and take questions

**Joanna Meacham**, Y4, Psychology, Lancaster Bailrigg: [Generating multiple not-so-random numbers](#)

**Dorethe Jasniak**, Y1, Lancaster Medical School, Lancaster Bailrigg: [An investigation of the impact of diabetes on outcomes following CABG surgery.](#)

**Summer Kaur**, Y3, Leadership, Management and Lifestyle, Blackpool and The Fylde College: [Zemiology and Covid-19: An Examination of UK Preparedness, Response and Avoidable Deaths](#)

**Anna Seggewisse**, Y3, Psychology, Lancaster Bailrigg: [Examining Cortical Hyperexcitability as a Predictor of Illusory Experiences in Schizotypals](#)

**Holly Woodman**, Y3, Blackpool School of Arts, Blackpool and The Fylde College: [The Embodiment of Physical Health Conditions in Contemporary Art](#)

**Emma Pooley**, Y4, Economics, Lancaster Bailrigg: [What effect did the Stamp Duty Land Tax \(SDLT\) Holiday have on the UK \(United Kingdom\) housing market and did it create a housing bubble?](#)

**Maria Podrecca**, Y4, Economics, Lancaster University Bailrigg: [Business Analysis of the Economy of Communion](#)

**Dominic Allen**, Y3, Psychology, Lancaster University Bailrigg: [On-line of duty: Examining the influence of online investigative interview type, perpetrator ethnicity and interviewer ethnicity on eyewitness recall](#)

**Ella Mann-Andrews**, Y3, Natural Sciences, Lancaster Bailrigg: [Computational Analysis of Coherence between Circadian rhythm and Cell Cycle](#)

**Phoebe Kendrew**, Y3, History, Lancaster Bailrigg: [A Corpus Linguistic Analysis of Cocoliztli in the Relaciones Geográficas of New Spain](#)

**Adam Stanney**, Y3, History, Lancaster University Bailrigg: [Pre-Viking Connections: Characterising the Maritime Communities of the North Sea World, c.600AD-850AD.](#)

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10.15 – 10.45: **Campus introductions**

**Blackburn College** with **Kieran Youd**, Art, Design & Media

**Lancaster Ghana**, with **Neizer Papa Nyan**, Law, (LLB)

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10.45 – 11.05: **Break**

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11.05 – 12.00: **Spotlight on presenters:** Hosted by **Vanessa Yeboah** (Year 1, Business Studies, Lancaster Ghana) and **Tina Xu** (Year 1, Natural Sciences, Lancaster Bailrigg).

**Dora Pestotnik Stres**, Y2, Health Research, Lancaster Bailrigg: [Effect of timing of surgery in active infective endocarditis on outcomes of surgery in general population and subgroups of patients with preoperative neurological complications](#)

**Lettie Wareing**, Y3, Psychology, Lancaster Bailrigg: [Negative Symptoms in Schizophrenia: An Investigation Using the Memory-Guided Saccade Task](#)

**Charlotte Moran**, Y2, Lancaster Medical School, Lancaster University Bailrigg: [How differing procurement processes, used during the COVID-19 pandemic, have and will continue to affect the relationship between NHS and Independent Sector Provision Post-COVID?](#)

**Muhammad Sohaib Anwar** Y3, Computing and Information Systems, Sunway University, Malaysia: [Design guidelines for Artificial Intelligence based systems](#)

**Alvin Quashie**, Y4, Computer Science, Lancaster Ghana: [Study On Credit Card Detection Through Machine Learning\(Artificial Intelligence\)](#)

**Theo Hunt**, Y3, Politics, Philosophy and Religion, Lancaster Bailrigg: [Political Leadership: A New Approach](#)

**Bogna Liziniewicz**, Y4, Psychology, Lancaster Bailrigg: [The open science of Psychology](#)

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12.00 – 12.30: **Reflections, prizes & thanks** with **Fiona Kusche** Y2, Management, Lancaster Leipzig & [Professor Wendy Robinson](#) Pro-Vice-Chancellor for Education at Lancaster Bailrigg.

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