



**Undergraduate Research Showcase**  
**Saturday 30th October**  
**2-6pm**  
**Keynes Hall / Chetwynd Room**  
**King's College**

## 2pm - Welcome

### 2.15pm - Session 1

Marco Loncar: *Magma propagation, cooling and crystallisation in dykes*

Oscar Wilson: *Investigations into Scientific Journal Publishing*

Adam Cragg: *Modelling the Reflection from Gold Gyroid Optical Metamaterials*

Ruairí Phelan and Jude Horner: *Bayesian machine learning and forecasting of epidemics based on compartment models: the PyRoss project*

Alistair Bill, followed by Sheamol Obeda: *Automatic detection of sheep Gait and Posture to predict early signs of disease*

followed by short break (around 3pm).

### 3.15pm - Session 2

Samuel Lloyd: *Gene deletion of candidate genes*

Victor Petre: *Investigating the role of compressive forces in asymmetric cell divisions and genome integrity*

Silas Ruhrberg Estevez: *Bioengineered Vascular Grafts Derived from Tubular Collagen Constructs*

Anuli Ezeoke: *Imaging tissue sections to identify potential interactions between placental macrophages and immune complexes*

Majid Panahi: *Assessing the effect of immunosuppression in the murine retina following the injection of gene therapy vectors*

Cecilia Lusuardi: *Mothers' immunity, bugs and babies*

followed by short break (around 4pm).

### 4.15pm – Session 3

Daniel Oosthuizen: *Limits to growth? Reconstructing the ecological thought of Robert Solow*

Axel Boerrigter and Khoi Tran: *Covid-19 and Academic Productivity in Economic Research*

Ama Dragomir, KC Onuorah and Emily Hyde: *Forgiveness Theory and Forgiveness Stories*

Sherry Xu: *Listening practice for learners of English: towards an intelligent tutoring system*

followed by **poster presentation and drinks** in the Chetwynd Room.

#### **Poster Display:**

Sophie Hall: *Development, design and validation of novel algorithms to analyse current signals from electrochemical systems*

Patrick Farnworth: *Applying modelling techniques from statistical physics to human vowel systems*

Shaimerden Abekov: *Optimised Propulsion for All-Electric Flight*

Lauren Brigden: *Analysis of dialect survey data for gender trends*

Francesca Toccaceli: *Biodiversity at King's: evaluating the Cambridge Biodiversity Metric for use on the college estate*

Alex Provost: *A Dialect Megasurvey of World Englishes: or, how do you pronounce ostrich?*

George Ellison: *Restricting Radical Records: Censorship of Music for the Prevention of Radicalisation*

## 5.15pm - Session 4

Ryan Coppack: *Collective voice in the Platform-Economy: Mapping the Problems, and Developing Solutions*

Henry Lloyd-Hughes: *Playbour: Mapping the Conceptual and Regulatory Challenges*

Tony Ford: *King's Research Expenditure*

Robert Hewis: *Medieval Mediterranean Textiles and Public Histories in Cambridge Collections*

followed by **closing remarks**.