

The SICSA logo consists of the lowercase text 'sicsa' followed by an asterisk, all in white. It is positioned inside a semi-transparent blue circular graphic that overlaps the top right corner of the image.

sicsa*

The Scottish Informatics &
Computer Science Alliance

The background of the entire poster is a photograph of a modern university building. The building features a mix of light-colored horizontal panels and dark grey vertical panels. A prominent dark grey tower has the Glasgow Caledonian University logo and name on it. The foreground shows a paved plaza with a brick pattern and a small green lawn area.

**THE 13TH ANNUAL
SICSA PHD
CONFERENCE**

#sicsaconf22

WELCOME AND INTRODUCTION

It is my great pleasure to welcome you to this year's 2022 SICSA Conference at Glasgow Caledonian University. A sincere thank you to SICSA and the organising committee for setting up this conference, with special thanks going to Aileen Orr, Anastasia Fliatoura and Tiffany Babey from the SICSA executive team who worked tremendously to ensure a successful conference.

We have planned an exciting programme. Two fascinating keynotes, our annual poster presentation and competition, where PhD students are showcasing their work, reverse Vivas and several comprehensive parallel workshops ensure that there is something interesting for everyone.

Conferences are places to make new connections, to present your work and get innovative ideas. As you are all researchers from different Scottish institutions, we would encourage you to discuss the opportunities and challenges of your research and explore collaborations, even if your research areas are different. Especially in a wide-ranging field like computing, this cross-disciplinary collaboration is of high importance.

We hope that you enjoy the programme over the next few days, extend your networks, have interesting discussions and have an overall great time.

Jacob Koenig
Conference Academic Chair, 2022.

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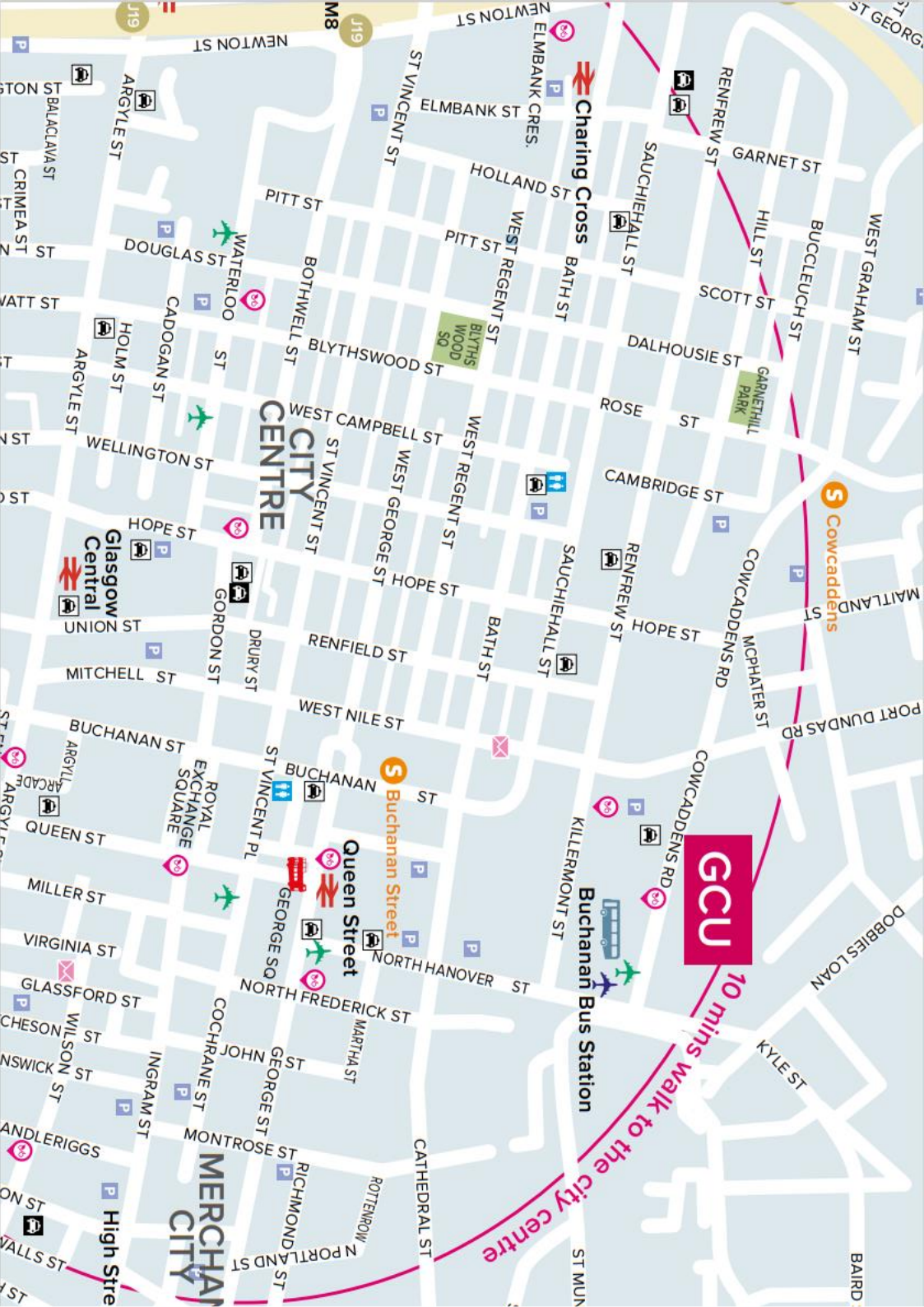
SCHEDULE DAY 1

TIME	SESSION	LOCATION
12:00-12:30	Registration with Lunch & Poster drop-off	George Moore Building
12:30-12:40	Welcome and Keynote Introduction	Deeprise Lecture Theatre (A005)
12:40-13:40	Keynote Talk: Stephen O'Neill	
13:40-14:45	SICSA Education: Learning & Teaching Network Launch	
14:45-15:00	Coffee Break/Posters	George Moore Restaurant
15:00-15:30	Plenary: SICSA Peer Support Network: Keeping Mentally Healthy	Deeprise Lecture Theatre (A005)
	Workshop: Intellectual Property	Workshop Room A426C
	Workshop: CV Improvement	Workshop Room A426F
15:30-16:45	Workshop: Build Your Own: Bricolage for Blended Spaces	Room notified on the day
	Workshop: Education	Workshop Room A426
	Panel Session: Early Career Research	Deeprise Lecture Theatre (A005)
16:45	Closing Talk	Deeprise Lecture Theatre (A005)
17:00	Accommodation Check-in	Student Accommodation
18:15-19:30	PhD Careers Fair	Merchants House (Level 5)
19:30-22:00	Conference Dinner	Merchants House Dining Hall

SCHEDULE DAY 2

TIME	SESSION	LOCATION
09:00-09:30	Registration with Coffee/Posters	George Moore Building
09:30-09:40	Welcome and Start Up Session Introduction	Deeprise Lecture Theatre (A005)
09:40-11:30	The Journey from Research to Tech Start-Up	
11:30-12:15	Poster Session	George Moore Restaurant
12:15-12:45	Lunch	
12:45-14:00	Reverse Viva	Dr Sandy Brownlee
		Dr Jessica Enright
		Dr Michael O'Boyle
14:00-14:30	Best Paper & Posters Awards	
14:30-15:30	Keynote Talk: Per Hammer	Deeprise Lecture Theatre (A005)
15:30-16:00	Best Dissertation Talks & Awards	
16:00	Closing & Thank You	

#sicsaconf22



GCU

10 mins walk to the city centre

Buchanan Bus Station

Queen Street

Buchanan Street

CITY CENTRE

Glasgow Central

Cowcaddens

MERCHANT CITY

High Street

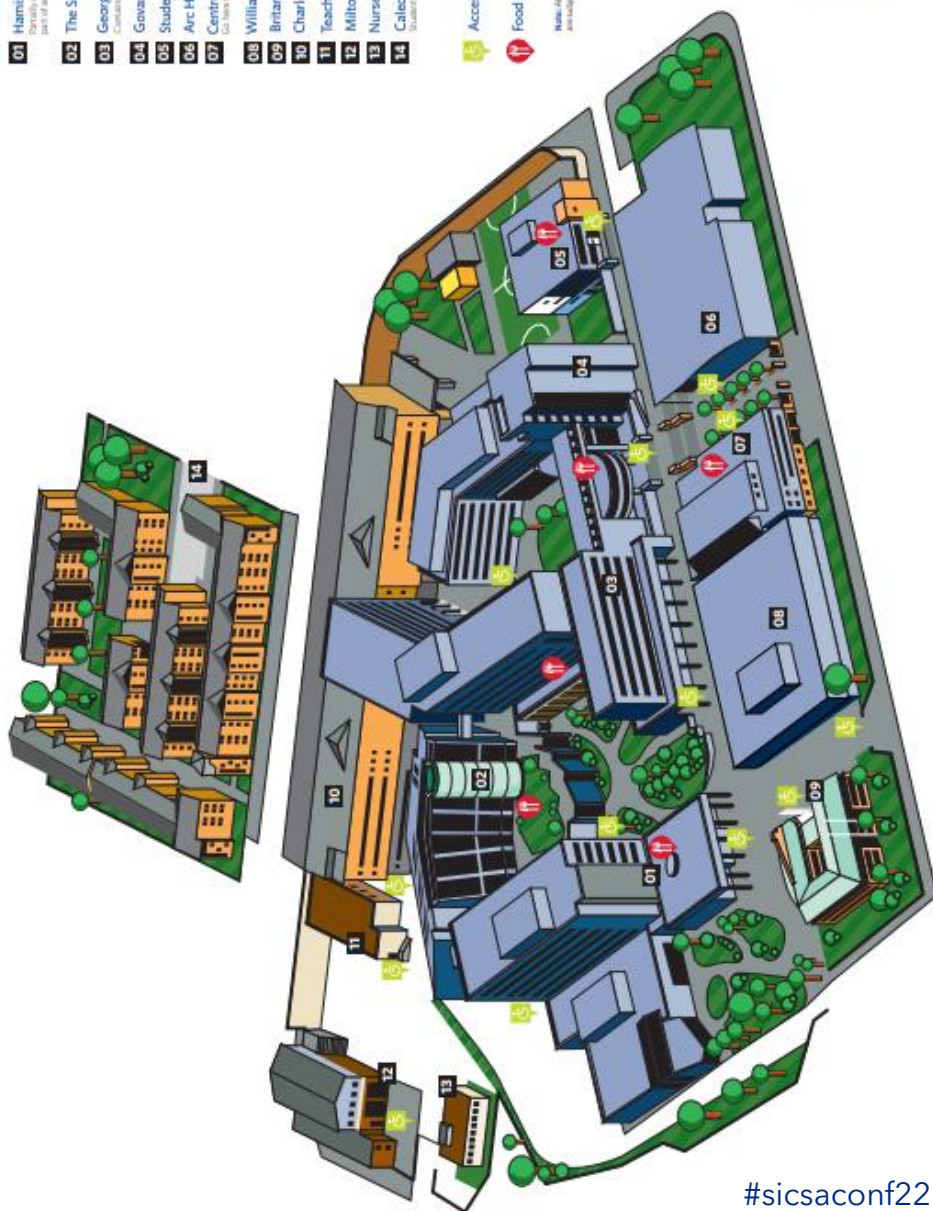
Campus Key

- 01** Hamish Wood Building (Rooms W)
Details under construction and opening 2018 as part of an exciting £20m campus development project
- 02** The Sir Alex Ferguson Library
- 03** George Moore Building (Rooms M)
Contains the University Restaurant, Study Club area and Campus Life deck
- 04** Gowan Meki Building (Rooms A)
- 05** Students' Association
- 06** Arc Health and Wellbeing Facility
- 07** Centre for Executive Education (Rooms CEE)
Close to regular air port shuttle coach to Glasgow
- 08** William Hanley Building (Rooms H)
- 09** Brianna Building (Rooms B)
- 10** Charles Oakley Laboratories (Rooms C)
- 11** Teaching Block
- 12** Milton Street Building (Rooms MS)
- 13** Nursery
- 14** Caledonian Court
Student Accommodation

 Access (lifts, ramps and automatic doors)

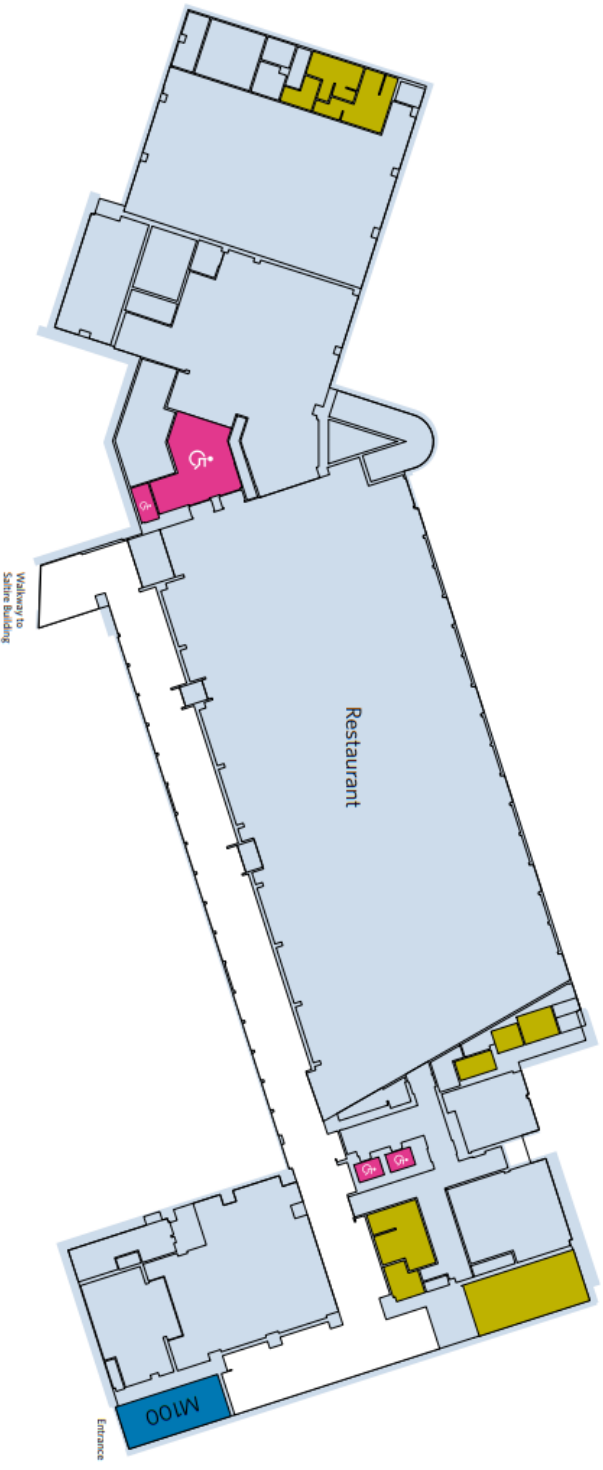
 Food and drink

Note: All buildings are wheelchair accessible. The locations of access points are subject to future alterations of the Campus construction work.



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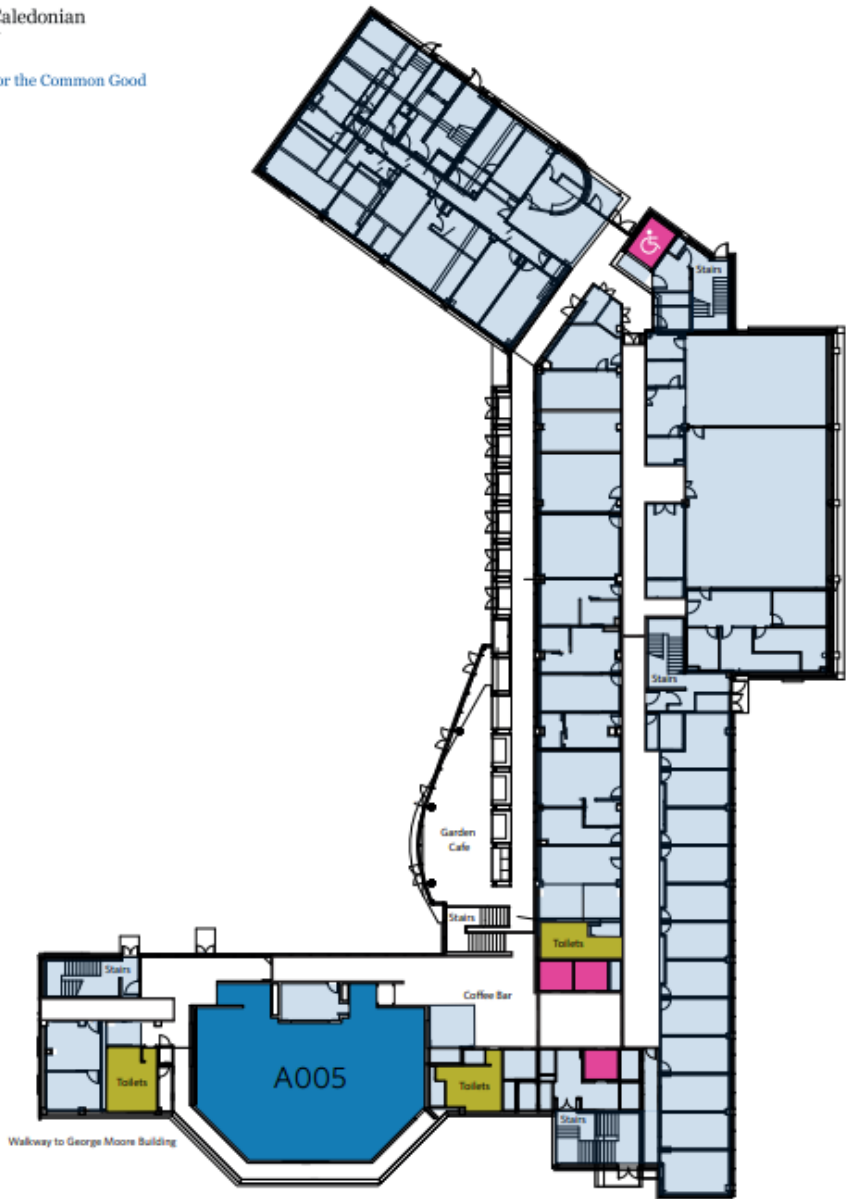
George Moore Building (Ground Floor)



KEY

- Lecture Theatre
- Classroom
- Lifts
- Water Cooler
- Accessibility Toilet
- Female Toilet
- Male Toilet
- Unisex Toilet
- Gender Neutral Toilet
- Staff Female Toilet
- Staff Male Toilet
- Staff Unisex Toilet

Govan Mbeki Building (Ground Floor)



KEY

- Lecture Theatre
- Classroom
- Lifts
- Water Cooler

- A Accessibility Toilet
- F Female Toilet
- M Male Toilet
- U Unisex Toilet

- G Gender Neutral Toilet
- SF Staff Female Toilet
- SM Staff Male Toilet
- SU Staff Unisex Toilet

TRAVEL TO CONFERENCE

Glasgow Caledonian University (GCU) is ideally situated in the City Centre. GCU is a 10 minutes walk from Glasgow Queen Street railway station and Buchanan Street Bus and Subway stations. Glasgow Central station is also a short distance away.

Delegates should be aware that train journeys are currently being impacted by strikes across Scotland. These are likely to have an impact on your journey if you are travelling to Glasgow by rail. We would encourage you to keep updated and plan extra time for your journey.

We strongly encourage delegates to use public transport to travel to the conference as there is no free parking in Glasgow City Centre, however the car park across from GCU has a reduced fee for delegates should you need to use it.

WATER AT THE CONFERENCE

Water coolers are placed around the conference venue. We encourage all delegates to minimize their use of plastic bottles by using reusable bottles during the conference.

PRAYER ROOMS

The GCU prayer room will be in room A427 on the 4th floor of the Govan Mbeki building (just past the workshop rooms). For directions to prayer room at the Merchants House, please refer to a SICSA organising member while at the venue and they will be happy to help.

WIFI ACCESS

Eduroam will be available everywhere on the GCU campus and your devices should automatically connect if you have connected to Eduroam on your home campus.

To connect to the guest wireless from your Wi-Fi device, follow these steps:

1. Select WiFi Guest from the Wi-Fi network list.
2. Open your preferred web browser and select Get Online at Glasgow Caledonian University.
3. Enter all the required information and select Continue.

More detailed descriptions are available at:
<https://www.gcu.ac.uk/aboutgcu/supportservices/it-services/wirelessaccess/guestwifi>

The QR code on the back of this brochure can also direct you to the link above.

ACCOMMODATION

The accommodation is situated to the back of the campus. Signage will be placed to direct delegates. A storage room will be available during the conference on the **4th floor of the Govan Mbeki building**.

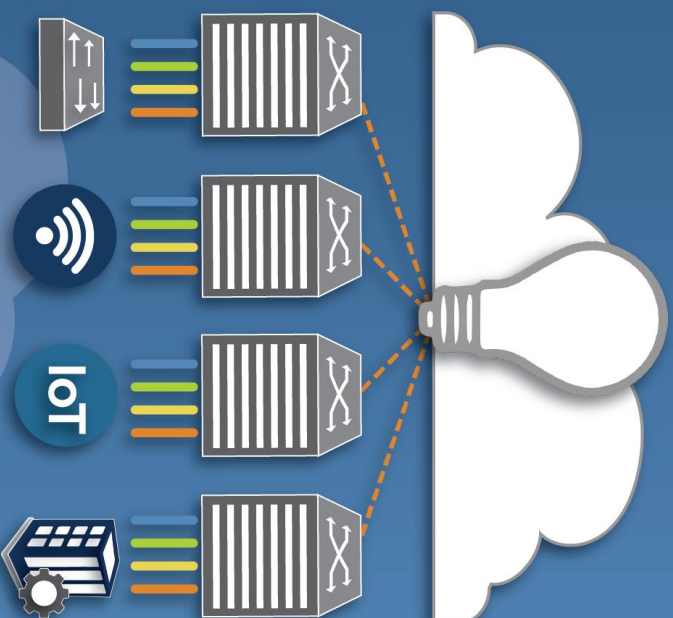
Check-in will be available between **12:00 and 12:30** during registration and check out is at 10am on the 29th June. Breakfast vouchers will be handed out during registration.

The rooms are single occupancy, shared kitchens are available for delegates not participating in the conference dinner and toiletries will be provided.

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DATA LAB**
value from data

Industry Placements for PhD students

This programme provides the opportunity to undertake a paid industry placement:

- Gaining insight into, and experience of, working in an organisation and applying your research and technical skills in a 'real-world' setting to solve business specific problems
- Accessing employability skills training provided by an experienced team at The Data Lab
- Applying and developing skills and experience in an area relevant to your PhD and interests

Who can apply?

The programme is open for application to PhD students in Scotland who are undertaking data/AI focussed research and have the Right to Work in the UK.

Projects typically require skills in areas such as data science, data engineering, data analysis, business analysis and artificial intelligence but we are happy to discuss eligibility with any students who are unsure of the relevance.

Successful applicants will be matched to a suitable project with a host organisation where they will undertake a paid placement project for a maximum of 70 hours (10 days).

Placements are flexible in duration and may take place over a period of between 2 weeks up to a maximum of 8 weeks (e.g. 1 day per week). The working pattern will be agreed with the host organisation prior to the placement commencing. The placements can take place at any time during the calendar year to suit the schedules of both the student and host organisation.

Find out more

If you have any questions or are interested in applying to the programme please chat to us at our event stand or contact: placements@thedatalab.com

KEYNOTE: STEPHEN O'NEILL

When: Tuesday 28th June, 12:40 – 13:40
Where: Deeprose Lecture Theatre (A005),
Govan Mbeki Building



Stephen is a career civil servant specialising in creative policy development and has worked on a range of policy issues over the course of his career. He was the lead policy advisor to the 2015 Commission on Widening Access, whose recommendations have succeeded in significantly improving the socioeconomic diversity of Scotland's

universities. On social security policy, working directly with people in receipt of benefits, he led the development of the Social Security Charter which sets out enforceable rights for people accessing the Scottish social security system. The Charter was praised by the UN as a leading example of citizen-led, rights based policymaking. Most recently he has focused on economic policy, specialising in high-growth start-ups and working closely with ex-Skyscanner COO Mark Logan to implement the Scottish Technology Ecosystem Review.

KEYNOTE ABSTRACT

Despite exceptional universities, world-class research, thriving corporate industries and a cultural tradition of entrepreneurship Scotland is not a high performing start-up nation. This session will explore the reasons for this, how performance can be turned around and the scale of the economic prize for doing so.

KEYNOTE: PER HAMMER

When: Wednesday 29th June, 14:30 - 15:30
Where: Deeprose Lecture Theatre (A005),
Govan Mbeki Building



Computational Thinking Considered Harmful?

Per Hammer is a Norwegian Glaswegian with over 25 years of experience in the software industry, including 15 years as a software engineering lead and agile coach. He

is an Agility Lead at J.P. Morgan Global Technology, and a Professor in Practice of Collaborative Software Engineering at the University of Glasgow

KEYNOTE ABSTRACT

Since its introduction in 2006, “computational thinking” has been used to redesign existing curricula to make them more attractive to computing science students, and to develop new courses aimed at audiences who would not otherwise be exposed to computer science. In this talk, Per will discuss how an over-reliance on computational thinking limits software engineers’ view of sustainability, explore a brief history of sustainability in software engineering, and propose different approaches for software engineers who wish to consider sustainability more widely in their work.

POSTER DROP OFF

For delegates that are displaying a poster at the conference, all posters should be dropped off at registration on Day 1 by 12pm. The Poster Committee will hang your poster for you. All posters will remain on display for both days

POSTER COMPETITION

The finalists from the first stage of the competition will be assessed by judging panels over the conference. Prizes will be awarded for best in year for: 1st, 2nd, and 3rd+ year.

PEOPLE'S CHOICE

Delegates will have the opportunity to vote for their favourite poster. Head to our LinkTree to find the voting form by scanning the QR code below and log into Google with your email address:



THE DATA
valu

FIRST YEAR

- Akilan Selvacoumar, Robert Stewart, Hans Wolfgang Loidl and Ryad Soobhany**
- Aleksander Bielinski**
- Hamidreza Farhadi Tolie, Jinchang Ren, Eyad Elyan and Somasundar Kannan**
- Kieran Waugh**
- Laura Larios-Jones**
- Malavika Suresh, Ikechukwu Nkisi-Orji and Nirmalie Wiratunga**
- Narinder Kaur, Fani Deligianni, Pierpaolo Pellicori and John Cleland**
- Narjes Rohani**
- Pedram Salimi, Nirmalie Wiratunga, Anjana Wijekoon and David Corsar**
- Qiyuan Wang and Christos Anagnostopoulos**

Benchmarking Unikernels with Distributed Map Reduce

Enhancing the Provision of Labour Market Intelligence in Scotland Using Machine Learning

Multimodal Image Fusion and Deep Learning for Condition Monitoring in Subsea Applications

Push or Pinch? Exploring Slider Control Gestures for Touchless User Interfaces

Reordering Edges in Temporal Graphs to Maximise Reachability

Evaluating Explanations with Explanation-Driven Training

Predicting Incident Heart Failure in Patients with Type 2 Diabetes: An Artificial Intelligence approach

A data-driven approach to discovering students' learning tactics in a large-scale health informatics course

Natural Language Generation for Interactive Explainable AI

Building Model Resilience at the Network Edge

POSTER SESSION (continued)

SECOND YEAR

- 11 **Fatima Ghanduri, Dr Christos Anagnostopoulos and Dr Fani Deligianni**
-
- 12 **Fraser Garrow**
-
- 13 **Gayani Nanayakkara**
-
- 14 **Jude Haris, Perry Gibson, José Cano, Nicolas Bohm Agostini and David Kaeli**
-
- 15 **Kaixuan Wang, Alex Voss and Loraine Clarke**
Muhammet Alkan, Fani Deligianni, Samuel Leighton, Rajeev Krishnadas, Jonathan Cavanagh, Pavan Kumar Mallikarjun, Georgios
- 16 **V. Gkoutos, Linda Everard, Swaran Singh, Nicholas Freemantle, David Fowler, Peter Jones, Vimal Sharma, Robin Murray, Til Wykes, Richard James Drake., Iain Buchan, Shôn Lewis and Max Birchwood**
-
- 17 **Nurudeen Salau and Muhammad Shakir**
-
- 18 **Qianyu Long, Christos Anagnostopoulos and Fani Deligianni**
- 19 **Sarra Graja, Salma Elsayed, Lysay Shepherd, George Lovell and Ken Scott-Brown**
-
- 20 **Tahani Aladwani, Christos Anagnostopoulos and Fani Deligianni**
-
- 21 **Xinshu Ma, Florentin Rochet and Tariq Elahi**

THIRD YEAR

- 22 **Ashish Upadhyay, Stewart Massie, Ritwik Singh, Garima Gupta and Muneendra Ojha**
-
- 23 **Francisco Javier Chiyah-Garcia**
-
- 24 **Ipshita Roy Chowdhury and Deepayan Bhowmik**
-
- 25 **Jacob Koenig**
-
- 26 **Kelvin Lawal, Titus Olaniyi and Ryan Gibson**
-
- 27 **Liangfei Zhang**
-
- 28 **Zhibo Li**

Predictive Analytics & Query Driven Maintainable Forecasting Models

On the Merits of Evolving Purely Functional Programs

Challenges of Using Clinical Language Modelling for Information Extraction to Auto-populate Electronic Health Records

Developing DNN Accelerators for Edge FPGAs with TFLite

Human-centric Machine Learning

Challenges in Developing Risk Prediction Models based on EHR

Machine Learning Enabled Multi-Radio Access Technology Selection in 5G Networks

Knowledge and Information Reuse in the Edge Computing Environments

Using Affective Computing to Create an Emotional Bond between Users and Virtual Agents for Enhanced Social Interaction

On the use of Approximate Reasoning for Data-driven Tasks Management at the Edge

Bow-Tie: Defending Against Malicious Mixes with Topological Engineering

A Case-Based Approach to Data-to-Text Generation

Situated Natural Language Interaction with Robots

Malware Recognition and Prediction based on Image Processing using Deep Learning

Weakly Supervised Surface Crack Segmentation

Fog Computing Energy Efficiency With Data Management For Smart Home Environments

Short and Long Range Relation Based Spatio-Temporal Transformer for Micro-Expression Recognition

Declarative Abstractions for Data Collections

PHD WORKSHOP: INTELLECTUAL PROPERTY

Time: Tuesday 28th June, 15:30 – 16:45

Location: Workshop Room A426C, Govan Mbeki Building

Facilitator: **Graham Carter**

Coordinators: Andrei Petrovski, Charly Harbord,
Uneneibotejit Otokwala

The session is devoted to looking into the issues related to Intellectual Property (IP) Rights. The session will cover general information on IP rights but will also consider procedural aspects for how IP from your research work may be identified, protected and commercialised. The session will look at:

- the different types of IP and their purpose;
- procedures for obtaining and controlling IP rights;
- who might own the IP in your research;
- university policies and procedures for protecting and commercialising IP;

The development of skills addressed in the session fits into the following sections of the Vitae RDF:

- C1: Professional Conduct
- C2: Research Management
- C3: Finance, funding, Resources.

PHD WORKSHOP: **GETTING THE JOB YOU WANT AFTER FINISHING YOUR PHD**

Time: Tuesday 28th June, 15:30 – 16:45

Location: Workshop Room A426F, Govan Mbeki Building

Facilitator: Robin Huggins

Coordinators: Jacob Koenig, Yuhao Sun

Continuing in academia or looking for a job in the industry requires an up-to-date CV as well as skills on how to succeed in interviews and applications. In this workshop we will look at 3 different aspects of further employability: Resume Construction, Interview Techniques, and Networking skills

This workshop is led by Robin Huggins, Director of MBN Academy. Rob draws upon 20 years' experience as an expert Data Talent practitioner, including delivering The Data Lab's MSc. Placement Programme for the last few years, therefore having the right skillset to explain these aspects from a recruitment side.

EDUCATION WORKSHOP: POST PANDEMIC COMUPTING SCIENCE EDUCATION

Time: Tuesday 28th June, 15:30 – 16:45

Location: Workshop Room A426, Govan Mbeki Building

Facilitators: **Mark Zarb, Balandin Di Donato, Khristin Fabian, Debbie Meharg, Hebatallah Shoukry, Peter Donaldson**

Coordinator: Matthew Barr

The COVID-19 pandemic has forced us to re-think how we deliver our teaching and assessment. And, while the circumstances that required us to adapt our practice were far from ideal, some of the resulting innovations in our methods have had a positive impact. In this session, we'll hear from colleagues about the new approaches to delivering CS education that have emerged during the pandemic and are here to stay, even as we recover from the impact of COVID-19.

BUILD YOUR OWN: **BRICOLAGE FOR BLENDED SPACES**

Time: Tuesday 28th June, 15:30 – 16:45

Location: Room will be notified on the day

Facilitators: Emilia Sobolewska, Callum Egan

Coordinator: Joanna Aldhous, Ricky Zhu

This workshop aims to advocate the benefits of methodological bricolage, where the researcher tailors tasks, tools, and approaches to understand the subject at hand. We will explore the creative process of reimagining the research frameworks, using the theory and practice of Blended Spaces. The workshop will specifically benefit those researchers, dealing with non-standard topics, where the current methodological frameworks are either insufficient or nonexistent.

PHD WORKSHOP: EARLY CAREER RESEARCH PANEL SESSION

Time: Tuesday 28th June, 15:30 – 16:45

Location: Deeprise Lecture Theatre (A005), Govan Mbeki Building

Facilitator: **Mujeeb Ahmed, Anjana Wijekoon**

Coordinators: Tim Storer

You're somewhere along the way on the long journey to earning your PhD and graduation still seems a long way off, but now is the perfect time to start planning for what happens next. This session will look at options for PhD graduates who are intending to continue into early career research roles. A wide variety of career steps exist, including going straight into an academic role, an independent research fellowship, a research associate working on a specific project, knowledge transfer, the emerging research software engineering. In this panel session you will hear the perspectives of early career researchers who have followed these different paths and the impact it has had on their careers.

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BEST DISSERTATION AWARD

Selected from PhD dissertations awarded in the past year (2021/2022), the submissions showcase the best exemplars of graduate research across Scotland, with entries from Scottish institutions. They are reviewed by a committee of senior researchers in Computer Science and Informatics and chaired by the SICSA Graduate Academy Director.

The Best PhD Dissertation Award this year is proudly sponsored by **Arista**. A prize of **£2,000** will be awarded to the winning dissertation.

BEST PAPER AWARD

ARISTA

We would like to provide a platform for PhD students to showcase their work and get well-deserved recognition for the hard work that goes into writing and publishing papers. This competition offers students the opportunity to present their research and get feedback from industry leading experts.

The winner of the best paper competition will receive a prize of **£250 in vouchers** sponsored by **Arista**, as well as an invitation to present the paper and get feedback from a panel of industry experts within Arista.

CAREERS FAIR



BayesCentre

This year we are delighted to announce that the first day of the conference will include a PhD Careers Fair will be held on the 5th floor of the **Glasgow Merchants House** between **18:15 and 19:30**. This is a fantastic opportunity to meet with companies in a relaxed and informal environment!

net 

CROVER
GRAIN STORAGE MONITORING





CONFERENCE DINNER

The first day of the conference will culminate in a reception in the historic **Merchant's House** in Glasgow's George Square. The reception will feature a civic welcome from a senior representative from Glasgow City Council followed by a welcome speech from the SICSA Director. This will be an excellent opportunity for delegates to relax and network with peers.

The reception will begin right after the Careers Fair, from **19:30** to approximately **22:00**, at which time delegates will be able to enjoy the rest of their evening in Glasgow City Centre or travel back to the Conference accommodation. Drinks will be provided during dinner, and a cash bar will also be available.

COMMITTEE

Stuart Anderson	University of Edinburgh	SICSA Director
Tim Storer	University of Glasgow	SICSA Deputy Director
Matthew Barr	University of Glasgow	SICSA Education Director
Andrei Petrovski	Robert Gordon University	SICSA Graduate Academy Director
Aileen Orr	University of Glasgow	SICSA Executive Officer
Anastasia Fliatoura	University of Glasgow	SICSA Executive Assistant
Tiffany Babey	University of Glasgow	SICSA Events Coordinator
Jacob Koenig	Glasgow Caledonian University	Conference Academic Chair
Michael Crabb	University of Dundee	Conference Poster / Web Chair
Joanna Aldhous	Edinburgh Napier University	PhD Organising Committee
Ricky Zhu	University of Edinburgh	PhD Organising Committee
Charly Harbord	Abertay University	PhD Organising Committee
Uneneibotejit Otokwala	Robert Gordon University	PhD Organising Committee
Iulia Paun	University of Glasgow	PhD Organising Committee
Yuhao Sun	University of Edinburgh	PhD Organising Committee
Syed Yaseen Shah	Glasgow Caledonian University	PhD Organising Committee

Each year's SICSA conference is organized by a committee of volunteers drawn from across the Scottish Universities, they will be identifiable by the SICSA T-shirts during the conference.

Welcome to the 13th Annual SICSA PhD Conference at Glasgow Caledonian University. This is the first in-person conference since 2019 so please make the most of the opportunity to network, establish new connections and meet those people you know only from Zoom calls! This year's conference is focussed on sustainability, resilience and recovery. We are all still in recovery mode, rebuilding our work, planning careers and contributing to the development of a sustainable and resilient economy. Digitalisation of our economy and society is progressing apace and we find informatics and computer science everywhere from fundamental challenges to the development of a lively tech ecosystem. The programme has been designed to try to facilitate development and recovery for the "living with COVID" future. The organising team have put together a wide-ranging programme. There is lots of choice and we hope there is something for everyone in this year's programme.

Finally, I'd like to thank the organising committee and acknowledge the efforts of Aileen Orr, Anastasia Fliatoura, and Tiffany Babey for all their work in shaping and supporting the development of this year's conference. We hope you enjoy your time at the conference in Glasgow and you will have fun during the conference!

Stuart Anderson
SICSA Director, 2022



Proudly supported by

ARISTA



**THE
DATA LAB**

value from data

SCHEDULE AT A GLANCE

DAY 1

- Registration, Lunch & Posters **12:00**
- Welcome Talk **12:30**
- Keynote Talk **12:40**
- SICSA Education Network Launch **13:40**
- Plenary: Keeping Mentally Healthy **15:00**
- Parallel Sessions **15:30**
- Accommodation check-in **17:00**
- Careers Fair **18:15**
- Dinner **19:30**

DAY 2

- 09:00** Registration, Coffee & Posters
- 09:30** Welcome talk
- 09:40** Start-Up Panel
- 11:30** Poster Session
- 12:15** Lunch
- 12:45** Reverse Viva
- 14:00** Best Paper & Posters Award
- 14:30** Keynote Talk
- 15:30** Best Dissertation Talks & Award
- 16:00** Event Close

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The Scottish Informatics &
Computer Science Alliance



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