

Conference Programme

Day 1 - Thursday 1st September 2022

09:30	Room – Events Space, Kydd Building Registration – Tea and Coffee
10:15	Room – 1517/2517 Lecture Theatre Welcome Prof Liz Bacon, Abertay University

10:30	Parallel Session I			
	Room – 1009 Chair: Anne Savage E: a.savage@abertay.ac.uk	Room - 1025 Chair: Kean Lee Kang E: k.l.kang@abertay.ac.uk	Room - 1026 Chair: Andrew Minto E: a.minto@abertay.ac.uk	Room – 1006 Chair: Ahmed Abdullah E: a.abdullah@abertay.ac.uk
	WORKSHOP: Using Word to write an accessible mathematical document <i>Emma Cliffe</i>	Incentivisation and its effect on engagement and student performance. <i>Amanda Shaker, Christopher Brignell and Mathew Pugh</i>	The student perspective of Engineering maths teaching and embedded maths support. <i>Alison Loddick and Stephen Hillyard</i>	It's so unfair! - Can we help students to feel less resentful of group projects and presentations? <i>Laurence Shaw</i>
	Questions & Transition 10:45-10:50			
		Barriers to engagement: The student perspective of Mathematics and Statistics Support. <i>Holly Gilbert</i>	What can online platforms tell us about student engagement and understanding? <i>Lois Rollings</i>	An Updated Show of Hands. <i>Helen Berrington, Eleftherios Kastis and Anna Karapiperi</i>
	Questions & Transition 11:05-11:10			
	Student Video Curation. <i>Nick Sharples and Snezana Lawrence.</i>	Test, refresh, practise: how study skills can increase your maths confidence. <i>Hope Thackray and Pete Hart</i>	Approaches to Enhancing outreach. <i>Andrew Neate and Sofya Lyakhova</i>	CRaP in Assessments. <i>Alan Walker</i>
Questions & Transition 11:25-11:30				

Parallel Session II				
11:35	Room – 1009 Chair: Wan Mekwi E: Wan.Mekwi@uws.ac.uk	Room - 1025 Chair: Ruth Douglas E: ruth.douglas@glasgow.ac.uk	Room - 1026 Chair: Ewan Russell E: erussell@liverpool.ac.uk	Room - 1006 Chair: Shazia Ahmed E: shazia.ahmed@glasgow.ac.uk
	Multi-perspective analysis of needs for the development of digital blended learning for mathematics and mathematics related degree programmes in Germany. <i>Mirko Schürmann, Michael Liebendörfer, Andreas Eichler and Niclas Schaper</i>	Improving student engagement through employability themed group work. <i>Simon Fairfax.</i>	What do our student staff know about supporting peers with accessibility requirements? <i>Ruth Hand</i>	Accessibility for LaTeX teaching materials. <i>Morgiane Richard, Alice Alcaras, Murilo da Silva Baptista, Matthew Collinson, Benjamin Martin, Nir Oren, Dorian Stoyanov and Hubert Szynglarewicz</i>
	Questions & Transition 11:50-11:55			
	Widening participation lead by mathematics students. <i>Snezana Lawrence and Alison Megeny</i>	Student engagement with mathematics and statistics support: some student perspectives. <i>Farhana Gokhool</i>	Student engagement and statistical anxiety. <i>Carol Calvert, Di Haigney, Emma Steele and Rachel Hilliam</i>	Mathematics Anxiety in Undergraduate Business Studies Students. <i>Orla McCullagh, Maria Ryan and Olivia Fitzmaurice</i>
	Questions & Transition 12:10-12:15			
	How to train more excellent mathematicians? <i>Chris Brignell</i>	Students as Partners – working with students to widen engagement with skills support. <i>Shirley John</i>	Statistics Support: The past, the present and the future. <i>Alun Owen</i>	Evaluating strategies used to reduce statistics anxiety. <i>Ellen Marshall, Amanda Shaker, Anna Riach and Di Haigney</i>
	Questions & Transition 12:30-12:35			
12:40	Room - 1007, Old College Lunch			

13:50	Keynote 1
Room – 1517/2517 Lecture Theatre	
'A problem shared is a problem halved: moving forward with mathematics and mathematics support'? <i>Ciarán Mac an Bhaird, Maynooth University, Co. Kildare Rep of Ireland</i>	

14:50	Parallel Session III						
Room – 1009		Room - 1025		Room - 1026		Room - 1006	
Chair: Emma Coutts		Chair: Shazia Ahmed		Chair: Ahmed Abdullah		Chair: Kean Lee Kang	
E: e.coutts@hw.ac.uk		E: shazia.ahmed@glasgow.ac.uk		E: a.abdullah@abertay.ac.uk		E: k.l.kang@abertay.ac.uk	
Students` profiles of (non-) engagement with mathematics learning support in Germany. <i>Mirko Schürmann, Michael Liebendörfer and Niclas Schaper.</i>		Translating HELM workbooks into interactive online workbooks using STACK. <i>Konstantina Zerva</i>		Supporting teaching enhancements within a large mathematics department. <i>Joel Haddley, Jessica Banks and Subhrajyoti Saha</i>		Assessment in tertiary mathematics post COVID-19. <i>Don Shearman, Deborah King and Michael Jennings.</i>	
Questions & Transition 15:05-15:10							
Where shall we start? Using knowledge of pre-university teaching to support transition to university. <i>Pete Hart, Hope Thackray and Jenny Freeman</i>		Beyond alt text: Creating explorable objects in place of images in digital resources. <i>Ed Southwood, Ben McGovern, Alun Owen and Dalip Bachu</i>		Lecturers don't know everything: students watching the thought processes of lecturers on unfamiliar ground. <i>Katie Steckles, Claire Ketnor, Ros Porter, Alex Shukie and Alex Corner</i>		Do Mark Standardisation Algorithms Necessarily Disadvantage Students? <i>Gordon Hunter</i>	
Questions & Transition 15:25-15:30							
A Win-Win-Win Story: Drop-in Mathematics Support for Secondary School Students. <i>Peter Mulligan, Ciarán Mac An Bhaird, Aisling Mc Glinchey and Calum Heraty.</i>		Digital accessibility for online distance learning course materials. <i>David McArthur, Craig Alexander, Colette Mair and Eilidh Jack</i>		Study groups and student engagement. <i>Vesna Perisic</i>		Foundation students' experience and perception of flipped and blended learning compared with traditional teaching. <i>Jean Mathias and Izabela Walczak</i>	
Questions & Transition 15:45-15:50							

15:55	Room - 1007 Old College Tea and Coffee
16:15	Room – 1517/2517 Lecture Theatre Panel Session: "Post-Pandemic Maths and Stats Teaching and Support: Lessons Learned and Planning for the Future". Co-Chairs: Dr Ciarán Mac an Bhaird (Maynooth University) and Dr Alison Reddy (University of Illinois)
17:15	Room – 1006 Sigma Network Annual General Meeting
17:30	End of Day 1
18:45	Conference Dinner and Awards Venue: Discovery Point

Friday 2nd September 2022

08:45	Room – Events Space, Kydd Building Registration			
09:00	Keynote 2			
	Room – 1517/2517 Lecture Theatre Data Science: transformation or transition? Rachel Hilliam, <i>the Open University</i>			
10:00	Room – 1007, Old College Tea and Coffee			
10:20	Parallel Session IV			
	Room – 1009 Chair: Craig Stark E: c.stark@abertay.ac.uk	Room - 1025 Chair: Kean Lee Kang E: k.l.kang@abertay.ac.uk	Room - 1026 Chair: Anne Savage E: a.savage@abertay.ac.uk	Room - 1006 Chair: Andrew Minto E: a.minto@abertay.ac.uk
	Adapting successful online activities for in-person classes - a new challenge. <i>Ewan Russell</i>	The impact of in-person and online maths and stats support facilities as social learning spaces on engagement. <i>Mark Hodds</i>	Using the concept of 'Statistical literacy' as a guiding heuristic to create a learning experience. <i>Adrian Bromage</i>	Embedding Fundamental Data Skills for Students in Non-cognate Subject Areas. <i>Jordan Brennan, Emily Rodden and Liam Naughton</i>
	Questions & Transition 10:35-10:40			
	Family Fortunes <i>Alison Loddick</i>	Exploring Undergraduates' Views related to Mathematics Service Teachers' Knowledge. <i>Dan O'Brien</i>	A Modern Twist on Traditional Mathematics Lectures. <i>Kristian Evans</i>	Clinical Trials with the Q-Step Model: Lessons Learned from the Ground. <i>Margaret Macdougall</i>
Questions & Transition 10:55-11:00				

11:10	Lightning Talks
	Room – 1517 Lecture Theatre Chair: Morgiane Richard E: m.richard@abdn.ac.uk
	Maths Week Scotland <i>Katie Oldfield</i>
	Spinning a yarn about... Maths Week Scotland <i>Shazia Ahmed</i>
	Transition to Glasgow: Logic, Reasoning and Problem Solving <i>Ruth Douglas</i>
	Correct for the wrong reason: Why we should know more about Mathematical Common Student Errors in e-Assessment questions <i>Indunil Sikurajapathi, Karen Henderson and Rhys Gwynllyw</i>
	Winning Scotland <i>Grant Small and Richard Orr</i>
	Special conference edition of MSOR Connections <i>Alun Owen</i>

Parallel Session V									
11:50	Room – 1009 Chair: Anne Savage E: a.savage@abertay.ac.uk		Room - 1025 Chair: Shazia Ahmed E: shazia.ahmed@glasgow.ac.uk		Room - 1026 Chair: Wan Mekwi E: Wan.Mekwi@uws.ac.uk		Room - 1006 Chair: Emma Coutts E: e.coutts@hw.ac.uk		
	WORKSHOP: Using (R) Markdown to write an accessible mathematical document <i>Emma Cliffe</i>		Factors which align with high failure rates in mathematics. <i>Leanne Rylands</i>		Statistics Support and anxiety explored. <i>Ellen Marshall, Anna Riach and Amanda Shaker</i>		Can the use of digital badges enhance maths support? <i>Chrystalla Ferrier</i>		
Questions Transition 12:05-12:10									
		From Individual Support to Small-Group Problem-Solving: Encouraging Speech Online. <i>Abi Kirk</i>		Student Engagement with Maths and Stats Support. <i>Alexandra Shukie, Ellen Marshall, Vijay Teeluck and Sarah Woodall</i>		Raising Awareness around Dyscalculia in a Technological University. <i>Deirdre Casey, Julie Crowley and Ruth Murphy</i>			
Questions & Transition 12:25-12:30									
		Authentic by design: developing mathematicians for the talent economy. <i>Alison Megeney, Matthew Jones and Brendan Masterson</i>		What does ‘partnership’ mean within this conference community? <i>Deirdre Casey, William Carey, Vesna Perisic, Ann Smith and Isabella Fairclough</i>				Optimising the blend of in-person and online mathematics support from the student perspective. <i>Don Shearman, Anthony Cronin, Jim Pettigrew, Leanne Rylands and Claire Mullen</i>	
Questions & Transition 12:45-12:50									
12:55	Room – 1007, Old College Lunch								

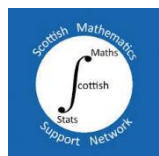
14:00	Parallel Session VI			
	Room – 1009 Chair: Craig Stark E: c.stark@abertay.ac.uk	Room - 1025 Chair: Andrew Minto E: a.minto@abertay.ac.uk	Room - 1026 Chair: Kean Lee Kang E: k.l.kang@abertay.ac.uk	Room - 1006 Chair: Anne Savage E: a.savage@abertay.ac.uk
	Digital mathematics support for prehonours students with a view towards hybrid. <i>Konstantina Zerva and David Quinn</i>	The use of Tablet PCs in mathematics learning and teaching. <i>Alena Haddley</i>	Data & AI Driven Approaches for Predicting Student Progression. <i>Liam Naughton, Abigail Parkes, Jordan Brennan and Emily Rodden</i>	100s of questions offered to 1000s of students – I like them NUMBAS <i>Ed Southwood, Ben McGovern and Ruth Hand</i>
	Questions and Transition 14:15-14:20			
	Using online STACK assessment to teach complex analysis: a prototype course design? <i>Richard Gratwick and Steven O'Hagan</i>	Assessment as a barrier to inclusion. <i>Tony Mann</i>	Widening Access to HE using in house mathematics equivalence assessments. <i>Abigail Parkes, Liam Naughton, Jordan Brennan and Emily Rodden</i>	A case-study using the open-source Chirun tool to build accessible, flexible learning materials for a mathematical programming module <i>Chris Graham</i>
	Questions and Transition 14:35-14:40			
	Initial Findings from a Systematic Scoping Literature Review of the Impact and Evaluation of Mathematics and Statistics Support in Higher Education. <i>Claire Mullen, Emma Howard and Anthony Cronin</i>	Online distance learning in Data Analytics – benefits, challenges, and suggestions. <i>Eilidh Jack, Colette Mair and Craig Alexander</i>	Making Sessions More Interactive: A Case Study on the use of Interactive Polls within Synchronous Online Statistics Workshops. <i>Monica-Cristiana Hess and Noel Parnis</i>	
Questions and Transition 14:55-15:00				

15:05	Keynote 3
	Room – 1517/2517 Lecture Theatre Plenary Lecture: Books Never Penn'd <i>Joe Kyle, University of Birmingham</i>
15:35	Close of Conference

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Our thanks go to everyone involved.



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