

MAYNOOTH UNIVERSITY RESEARCH WEEK 2021 18TH–22ND OCTOBER



WEEK LONG EVENTS

10AM–10.45AM DAILY MU HAMILTON INSTITUTE GRADUATE STUDENT TALKS

[VIEW SCHEDULE AND JOIN ONLINE](#)

The Hamilton Institute is building a bridge between mathematics and a wide variety of disciplines ranging from climate change and biology over chemistry to robotics. In our daily virtual graduate students talks, we will give you an insight of the variety of research that is undertaken by PhD and Master's students in the institute.

1PM-6.30PM, 21-22 OCT THIRD WORKSHOP ON FORMAL METHODS FOR AUTONOMOUS SYSTEMS (FMAS 2021)

[BOOK ONLINE](#)

FMAS 2021 will run over the 21st and 22nd of October 2021. For more information visit, fmasworkshop.github.io/FMAS2021. Speakers include Divya Gopinath, Researcher in Formal Verification, Robust Software Engineering (RSE) group, NASA Ames Research Center, USA and Clare Dixon, Professor of Computer Science, University of Manchester (UK) and leader of the Autonomy and Verification research group. FMAS is an academic workshop presenting current research in applying Formal Methods to Autonomous Systems. The scope of the workshop is Autonomous - and Robotic - Systems present unique challenges for formal methods. The goals of this workshop are to bring together leading researchers in autonomy and formal methods to present recent and ongoing work, including experience reports and case studies as well as identify future directions for this emerging application of formal methods. This workshop is concerned with the use of formal methods to specify, model, or verify autonomous or robotic systems, in whole or in part. Submissions may focus on case studies that identify the challenges for formal methods in this area, or experience reports that provide guidelines for tackling these challenges.

DAILY LIBRARY VIRTUAL EXHIBITION OF NEW BOOKS BY STAFF OF MAYNOOTH UNIVERSITY AND ST. PATRICK'S COLLEGE, MAYNOOTH

[JOIN ONLINE](#)

The exhibition covers books published during the last three years. Topics are wide ranging and include literature, music, politics, poetry, the changing role of women in Irish and other societies, conflicts nationally and internationally, faith and spirituality, music, marriage, maps and data mining and the COVID Pandemic. The exhibition gives a flavour of our rich publishing output. The books included are available from the University Library. The exhibition is available at <https://bit.ly/MUSPCMnewbooks>. If you wish to have a new book highlighted in forthcoming exhibitions please contact [Elaine.beane@mu.ie](mailto:Elaine.bean@mu.ie)

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

10AM–11AM HAS IRELAND FAILED THE COVID-19 TEST?

[BOOK ONLINE](#)

In this talk **Professor Mark Boyle, Department of Geography and Social Sciences Institute (MUSSI)**, will address three key questions: On the basis of which metrics can we say that Ireland has failed the COVID-19 test? Why has Ireland failed the COVID-19 test? What does failure tell us about what the Irish government needs to fix if we are to build back better?

11AM–12PM REPEALED: IRELAND'S ONGOING FIGHT FOR REPRODUCTIVE RIGHTS

[JOIN ONLINE](#)

Dr Camilla Fitzsimons will talk about extensive research she did over three years that focused on the before and after of the 2018 repeal activists. Rather than approach high profile figures, her research is from the bottom up and is based on engagement with over 400 activists canvassing for repeal. As well as sharing some findings, she will talk about the challenges of being an activist and an academic and the importance of activist-research as part of social justice movements.

12PM–1PM TRANSPORT PLANNING IN THE AGE OF CLIMATE CHANGE: LEVERAGING OPEN SPATIAL DATA

[JOIN ONLINE](#)

Dr Kevin Credit is an Assistant Professor in the National Centre for Geocomputation at Maynooth University. This talk discusses a new method to dynamically model urban passenger mode trade-offs at fine-grained spatial and temporal scales using open spatial routing data available from sources like OpenTripPlanner (OTP). This approach can be used to calculate dynamic modal trade-offs for specific times, routes, and geographic areas of interest, providing a framework for creating mode choice profiles for individual cities and neighbourhoods. Importantly, it is a resource that can be used by planners to better understand how to foster the use of non-auto travel modes, which is a crucial component of achieving urban sustainability goals in the age of climate change. The talk demonstrates uses of the dynamic mode choice framework to explore structural inequities in mobility for various demographic groups in Chicago as well as international comparison of transportation mode profiles between European and North American cities.

2PM–3PM EMBRACING DIVERSITY, EMBRACING PEACE

[JOIN ONLINE](#)

Dr Margaret Nugent and Dr Michael Kenny, the Department of Adult and Community Education (DACE), discuss research findings and their implications relating to embracing diversity and building diverse and inclusive communities. A facilitated discussion will question the implications and opportunities arising for peacebuilding, from the intersectionality of diverse communities.

5.30PM–6.30PM Q&A WITH CLAIRE LYNCH, AUTHOR OF SMALL: ON MOTHERHOODS (2021)

[BOOK ONLINE](#)

The Q&A will be led by **Dr Julie Rodgers (MU Motherhood Project)** and will focus on Claire Lynch's recently published book which deals with the themes of fertility treatment, queer motherhood and matrescence. Lynch's text has been described as a 'dazzling debut' which takes the reader through the complexities of creating life and treasures and torments of caring for young children. This is a public communication event in association with the H2020-funded MotherNet project.

FIND OUT MORE WWW.MAYNOOTHUNIVERSITY.IE/RESEARCH-WEEK/EVENTS

MAYNOOTH UNIVERSITY RESEARCH WEEK 2021 18TH–22ND OCTOBER



MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

9AM–3PM

MU HAMILTON INSTITUTE AFFILIATE'S RESEARCH EVENT 2021 - DAY 1 OF 2

[VIEW SCHEDULE AND JOIN ONLINE](#)

The 2nd Hamilton Institute Affiliate's Research event will take place on Tuesday, October 19 from 9.00am to 3.00pm. At this two-day event, 18 affiliates of Maynooth University's Hamilton Institute will give short presentations on exciting recent research. Topics include machine learning, statistical modelling, artificial intelligence, information theory, aerospace safety, robotics, DNA computing, carbohydrates and the SARS-CoV-2 spike protein, holographic image compression, early-universe black hole formation, and other interdisciplinary subjects. This online event aims to foster research collaboration across discipline-specific boundaries in topics with a mathematical underpinning.

11AM–11.30AM

LIBRARY TALK – ENHANCING KNOWLEDGE THROUGH TRANSPARENCY AND OPENNESS

[BOOK ONLINE](#)

Professor Dermot Lynott, Assistant Professor, Department of Psychology

Following some widespread failures to successfully replicate empirical findings in various disciplines, the social and biomedical sciences have had some bad press lately. This talk will look at some of the problems that have come to the fore in recent years, consider how increasing transparency in our research processes can help improve the quality and robustness of our work, and look at how local open scholarship networks can also make a big contribution.

12PM–1PM

LIBRARY TALK – USING REFERENCE MANAGEMENT TOOLS TO ENHANCE YOUR RESEARCH OUTPUT

[BOOK ONLINE](#)

Ciarán Quinn, Research Support Librarian, MU Library

An important component of Academic Integrity is the correct citation and acknowledgement of works used in your research when disseminating your research findings. Accurate citation in keeping with the norms of your discipline and avoiding plagiarism are an essential part of research integrity. To aid you in this process MU provides access to the Desktop and Online versions of the EndNote Reference Management Tool. This talk will bring you through the set-up process and explain the basic functionality of EndNote. At the end of the session, you will be able to set up your own account, populate it with references, sort them into subject groups, and generate bibliographies and in text citations/footnotes from your references.

1PM–2PM

CIRCUITS OF CARE: AGEING AND JAPAN'S ROBOT REVOLUTION (ONLINE SCREENING)

[JOIN ONLINE](#)

The screening is followed by Q&A/discussion with Professor David Prendergast (Director), Dr Naonori Kodate (UCD Japan Centre) and Daniel Baiteanu (Cinematographer)

By 2036, one in three people in Japan will be over the age of 65. While the nation wrestles with a shrinking labour force, the Robot Revolution Initiative was launched to expand robotics into every corner of Japanese economy and society. Circuits of Care follows anthropologist David Prendergast as he meets researchers developing and testing assistive technologies for older adults. From cybernetic walking supports to companion robots and automated sensor networks in nursing homes, older adults and care professionals share their experiences of the practical benefits these technologies bring, the problems they create and the unexpected relationships that can blossom.

2PM–3PM

INTRODUCTION TO HUMAN RESOURCES STRATEGY FOR RESEARCHERS (MS TEAMS)

[JOIN ONLINE](#)

In 2020 Maynooth University achieved a 'HR Excellence in research' award, which recognises institutions that are committed to the implementation of the European Charter for Researchers and Code of Conduct for Recruitment of Researchers. This information session provides an overview of the Human Resources Strategy for Researchers, the European Charter for Researchers and the Code of Conduct for Recruitment of Researchers, as well as the IUA's Researcher Career Development and Employment Framework and other relevant frameworks.

3PM–4PM

RESEARCH PROFESSIONAL TRAINING SESSION: ONLINE LIVE DEMONSTRATION (MS TEAMS)

[EMAIL TO REGISTER](#)

This training session is Open to all. MU students/staff and gives an overview of how to use Research Professional to find the right funding opportunities for you and stay up-to-date with research funding news. Contact Deirdre.clayton@mu.ie for booking and further information.

4PM–5PM

LIBRARY TALK – PUBLISHING OPEN ACCESS: THE OPTIONS

[BOOK ONLINE](#)

Ciarán Quinn, Research Support Librarian, MU Library

Open access (OA) refers to the practice of providing online access to information (generally peer reviewed research articles or data) that is free of charge to the end-user and reusable. This seminar will look at:

- What do we mean by Open Access and is it beneficial to the researcher?
- What the routes into Open Access, how to identify Open Access journals, the issue of predatory journals?
- Open Access and Funders requirements, is there a cost to publishing Open Access?
- The concept of journal prestige and Open Access
- Open Journal Publishing

7PM–9PM

SAME-SEX MOTHERING: A ROUNDTABLE SYMPOSIUM

[BOOK ONLINE](#)

This roundtable discussion seeks to explore the lived experience of female same-sex couples mothering together in a world that, even now, often cleaves to opposite-sex parenting as the ideal parenting model. The event features a first look at cutting-edge research on same-sex parenting, alongside insights into the cultural, social, and legal dimensions of women mothering together. This is a public communication event in association with the H2020-funded MotherNet project.

FIND OUT MORE WWW.MAYNOOTHUNIVERSITY.IE/RESEARCH-WEEK/EVENTS

MAYNOOTH UNIVERSITY RESEARCH WEEK 2021 18TH–22ND OCTOBER



MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

9AM-12.40PM

MU HAMILTON INSTITUTE AFFILIATE'S RESEARCH EVENT 2021 - DAY 2 OF 2

VIEW SCHEDULE AND
JOIN ONLINE

The 2nd Hamilton Institute Affiliate's Research event will take place on Wednesday, October 20 from 9.00am to 12.40pm. At this two-day event, 18 affiliates of Maynooth University's Hamilton Institute will give short presentations on exciting recent research. Topics include machine learning, statistical modelling, artificial intelligence, information theory, aerospace safety, robotics, DNA computing, carbohydrates and the SARS-CoV-2 spike protein, holographic image compression, early-universe black hole formation, and other interdisciplinary subjects. This online event aims to foster research collaboration across discipline-specific boundaries in topics with a mathematical underpinning.

1PM-2.30PM

3MT 3 MINUTE THESIS COMPETITION

JOIN ONLINE

3MT is an engaging, fast-moving format called the '3-Minute Thesis' - an academic competition in which Maynooth University PhD, MLitt and Masters, MA and MSC students explain their research in just 3 minutes. Open to all.

2PM-4PM

VIRTUAL UNDERGRADUATE RESEARCH SYMPOSIUM

ACCESS VIA MOODLE

The Experiential Learning Office introduces the 5th Annual Undergraduate Research Symposium to celebrate the diversity of undergraduate research activity across the campus and present a forum for the Summer Programme for Undergraduate Research (SPUR) students from all faculties to showcase their research with peers and the wider University community. Presented via a virtual platform, judges and guests can view participants pre-recorded research pitches and are encouraged to leave their comments, thoughts and encouragement for the presenters.

3PM-4PM

EURAXESS IRELAND FOR RESEARCHERS IN IRELAND

BOOK ONLINE

This session will be delivered by Dr Magdalena Wislocka, Head of EURAXESS Ireland.

EURAXESS is a platform for researchers, entrepreneurs, universities and businesses to interact with each other. Packed with practical information, EURAXESS provides support on mobility issues, links to job and career development opportunities for researchers and entrepreneurs, allows universities and businesses to find the right talent, and connects people, projects and funding. Based at the Irish Universities Association, and co funded by the Department of Further and Higher Education, Research, Innovation and Science, EURAXESS Ireland provides tailored and free advice to researchers and their families coming to work or study in Ireland.

3PM-4PM

DIGITAL HUMANITIES AND OGHAM AND LATINATE INSCRIPTIONS FROM EARLY MEDIEVAL TIMES TO THE PRESENT

JOIN ONLINE

Dr Nora White, Department of Early Irish, will talk about two projects currently being undertaken in the department researching the earliest surviving writing in Irish.

The first project, EMILI (Early Medieval Irish Latinate Inscriptions; funded by a Royal Irish Academy Nowlan Digitisation grant) aims to initiate a searchable digital corpus of early medieval Irish inscriptions in the Latin script. The second project, OG(H)AM (Harnessing digital technologies to transform understanding of ogham writing, from the 4th century to the 21st) is a collaboration between Professor David Stifter at Maynooth University and Professor Katherine Forsyth at Glasgow University that was recently awarded funding through the joint Irish Research Council and the Arts and Humanities Research Council in the Digital Humanities scheme. This project is based on the earlier Irish Ogham in 3D project at the Dublin Institute for Advanced Studies, but will broaden the scope to include examples of Ogham from Britain, on materials other than stone and from periods after the initial early medieval phase of the use of this enigmatic script.

4PM-5PM

MIT CINCS (COMMUNICATIONS INFORMATION NETWORKS CIRCUITS AND SIGNALS)/HAMILTON INSTITUTE SEMINAR

JOIN ONLINE

Professor Paul Patras, University of Edinburgh, "Making Sense of Mobile Network Traffic using Deep Learning"

Accurate understanding of mobile network traffic at city scale is increasingly important for precision network engineering, demand-aware allocation of compute resources, and security. Gaining such knowledge is however difficult, because it requires large-scale measurement collection using dedicated equipment, substantial storage capabilities, and non-trivial post-processing. In this talk I will first make the case for harnessing the power of deep learning to obtain highly-accurate real-time mobile traffic analytics that can fuel the management of 5G networks. I will then show how machine learning can be used in a principled way to detect network threats in their infancy and how to build such detection systems with a view to deployment at the edge.

FIND OUT MORE WWW.MAYNOOTHUNIVERSITY.IE/RESEARCH-WEEK/EVENTS

MAYNOOTH UNIVERSITY RESEARCH WEEK 2021 18TH–22ND OCTOBER



MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

10AM–11AM

RTÉ BRAINSTORM WORKSHOP

EMAIL TO REGISTER

Workshop with editor Jim Carroll

How to write for RTÉ Brainstorm - presentation on the best way to get your articles published – writing style and ideas. To register email communications@mu.ie. Places allocated on a first come basis. Zoom details will be circulated before the event.

11AM–12PM

ONLINE PANEL DISCUSSION ON DIVERSITY IN RESEARCH AND 'PICTURE A SCIENTIST'

BOOK ONLINE

The MU EDI Office will host a panel discussion moderated by the Vice-President for Equality and Diversity, Dr Gemma Irvine, focused on diversity in research and the documentary Picture a Scientist.

The panel discussion will be centred around the following questions:

- Why is diversity in research important?
- What positive actions can we as a community take to improve diversity in research?
- How do we address bias in research?
- How do we ensure that women and minorities don't have to carry the burden of making research more fair?

Register to watch the film and join the discussion. Instructions will be emailed on to how to watch the film via our virtual screening room from 12pm on Saturday 16 October until 12pm on Saturday 23 October. The film is also available on Netflix. Open to all.

12PM–1PM

LIBRARY TALK – OPEN ACCESS PUBLISHING IN MU

BOOK ONLINE

Ruth O'Hara, Collections and Content, MU Library

This presentation will look at the importance and benefits of publishing open access. It will detail the extensive number of transformative agreements that are available to the academic community in Maynooth as well as some alternative routes to publishing open access.

1PM–2PM

LIBRARY TALK – FROM PITCH TO PUBLICATION: WRITING A BOOK IN THE FIELD OF LIBRARY & INFORMATION SCIENCE

BOOK ONLINE

Claire Sewell, Research Support Librarian for the Physical Sciences at the University of Cambridge. Claire McGuinness, Assistant Professor and Deputy Head of School at the School of Information and Communication Studies, UCD.

In this lunchtime session, hosted by Maynooth University Library as part of Research Week, Claire Sewell author of *The No-Nonsense Guide to Research Support and Scholarly Communication* and Dr Claire McGuinness author of *The Academic Teaching Librarian's Handbook*, will share their recent experiences of the writing and publishing process. Each will speak for fifteen minutes, followed by questions and discussion. This event will be of particular interest to library staff who are interested in writing a book. This event is free but booking is essential.

2PM–3.30PM

MAYNOOTHSPARKS: A NEW NORMAL? RESEARCH IN THE POST-COVID WORLD

BOOK ONLINE

A series of brief talks from MU academics and researchers about how research has changed in the aftermath of the pandemic. Open to all.

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

11AM–12PM

LIBRARY TALK–E-LEGAL DEPOSIT BRIEFING

BOOK ONLINE

Honora Faul, Assistant Keeper (Published Collections), National Library of Ireland and Dr Christoph Schmidt-Suppran, Acting Keeper (Collection Management), The Library of Trinity College Dublin, the University of Dublin.

Irish Legislation extending legal deposit to digital publications was commenced in December 2019 - Copyright and Other Intellectual Property Law Provisions Act 2019: Amendment of section 198 of Principal Act. The National Library and the other Irish Copyright Libraries, including Maynooth University Library, have since been entitled to collect copies of digital publications from Irish publishers free of charge, just like they are doing with print publications. But so far none have done so, at least not systematically. The presenters will consider the implications of the new Copyright Act 2019, outline the current landscape of digital publications in Ireland, point to some related initiatives in the National Library and in the Library of Trinity College Dublin, and finally explore some options for how systematic collection of digital legal deposit publications could be implemented.

11AM–12PM

WAKING THE HIRSCHFELD: AN ORAL HISTORY AND ARCHIVAL STUDY OF A DUBLIN LGBTQ CENTRE

JOIN ONLINE

Dr Páraic Kerrigan (UCD) and Professor Maria Pramaggiore (MU)

Dr Kerrigan and Professor Pramaggiore present their current research project, which combines oral history and archival research in order to re-discover the rich history of an LGBTQ community resource which operated from 1979-1987. We argue that oral history, archival research and a clearly articulated concept of intergenerational collaboration is essential to the ability of researchers to mark and historicise the discontinuities of queer Irish lives.

12PM–1PM

EQUALITY, DIVERSITY AND INCLUSION IN RESEARCH AT MAYNOOTH UNIVERSITY

JOIN ONLINE

This session will be of interest to anyone who is a researcher or involved in research and wants to know how equality, diversity and inclusion is relevant to them. Gender equality in particular is a key focus of funding agencies including Science Foundation Ireland and consideration of the sex/gender dimension in research content is a requirement for certain funding agencies including Horizon Europe and the Irish Research Council. Open to all.

FIND OUT MORE WWW.MAYNOOTHUNIVERSITY.IE/RESEARCH-WEEK/EVENTS