MSCA Postdoctoral Fellowships 2023

The ADAPT Centre is excited to invite expressions of interest for the competitive and career enhancing 2-year European Postdoctoral Fellowships (PF), a Horizon Europe Marie Skłodowska-Curie Action.

We invite applications from from experienced researchers in the areas of Computer Science, e-Health, Social Media, Disinformation, Natural Language Processing, Data Analytics, AI, Human Computer Interaction, Data Governance, Edge Computing, Health Informatics, Digital Sovereignty, Information Retrieval, Privacy, Network Security, Applied Cryptography, Translation Technology, Speech, Extended Reality, Personalisation and Computer Graphics.

ADAPT's world-leading academics looking to supervise fellows can be found at the end of this document - click **HERE** to read about our experts.

As part of this prestigious Postdoctoral Fellowship you will

1. Have full autonomy to develop a novel proposal aligned with your research career guided by a world leading academic supervisor in your field and an expert research development team
2. Join the Marie Curie Alumni Association, a major platform for researchers to contribute to shaping science policy in Europe, providing career development opportunities and supporting the wider research community on topics affecting research and researchers' lives.
3. Expand the reach of your research through the MSCA programme which is proven to increase citation publication rate in comparison to other schemes
4. Be provided with a generous Mobility and Living Allowance as well as a Family Allowance (where applicable) to enable your relocation to Ireland, the European hub of digital innovation.

Annual Living & Mobility Allowance (Gross Annual Salary)	**€54,965**
Annual Family Allowance (if applicable)	**€7,920**
Annual Research, Training and Networking Contribution	**€12,000**

Long Term Leave Allowance & Special Needs Allowance are also available as applicable.

- To submit an expression of interest please complete the following form
- To learn more about the scheme, please click here

WHY ADAPT?

- **Contribute** to the ADAPT research agenda that pioneers and combines research in AI driven technologies: Natural Language Processing, Video/Text/Image/Speech processing, digital engagement & HCI, semantic modeling, personalisation, privacy & data governance.
- **Work** with our interdisciplinary team of leading experts from the complementary fields of, Social Sciences, Communications, Commerce/Fintech, Ethics, Law, Health, Environment and Sustainability.
- **Leverage** our success. ADAPT's researchers have signed 43 collaborative research projects, 52 licence agreements and oversee 16 active commercialisation funds and 52 commercialisation awards. ADAPT has won 60 competitive EU research projects and obtained €35 million in non-exchequer non-commercial funding. Additionally, 9 spinout companies have been formed. ADAPT's researchers have produced over 1,500 journal and conference publications and nearly 100 PhD students have been trained.

ABOUT THE ADAPT CENTRE

The ADAPT Centre, funded by Science Foundation Ireland, focuses on developing next generation digital technologies that transform how people communicate by helping to **analyse**, **personalise** and **deliver** digital data more effectively for businesses and individuals. ADAPT researchers are based in eight leading universities: Trinity College Dublin, Dublin City University, University College Dublin, Technological University Dublin, Maynooth University, Munster Technological University, Technological University of the Shannon: Midlands Midwest, and the University of Galway.

ADAPT's research vision is to pioneer new forms of proactive, scalable, and integrated AI-driven Digital Media Technology that empower individuals and society to engage in digital experiences with control, inclusion, and accountability with the long-term goal of a balanced digital society by 2030. ADAPT is pioneering new Human Centric AI techniques and technologies including personalisation, natural language processing, data analytics, intelligent machine translation, human-computer interaction, as well as setting the standards for data governance, privacy, and ethics for digital content.

APPLICATION PROCESS AND SUPPORT OFFERED

Candidates interested in applying for a PF with the ADAPT Centre and any of its affiliated host institutes must fill out and submit the "Expression of Interest" form available on this **link**

Candidates will be selected based on eligibility, experience, alignment with ADAPT priorities and proposed supervisor's research interest. The final decision to support a candidate will ultimately be taken by the supervisor and a contract will only be issued if and only if the submitted proposal is selected for funding by the European Commission.

The selected candidates will receive support from ADAPT's Research Development Team in writing their applications and join a number of working sessions to develop a strong and competitive proposal.

Stages of the EoI process and indicative timeline:

Call for EoIs opening	3-Apr-2023
Submission of EoIs to ADAPT	20 May 2023
Review of EoIs	Once an EoI is received, a review will be conducted immediately. Should there be an alignment with ADAPT and Supervisor, then a call will be organized with the Supervisor.
Communication of results of internal selection	1 week after meeting with supervisor
Working sessions and support from ADAPT in proposal development	1 June 2023 until 15th of August 2023
Submission of full draft (with final budget) to ADAPT	21 August 2023
MSCA PF submission deadline	13 September 2023 @ 5pm Brussels time.

FUNDING

Each candidate will apply to the scheme with an ADAPT Centre Supervisor who belongs to one of the 8 institutions affiliated to the Centre, this will be the candidate's host institution.

Should the proposal be successful, the candidate will receive a contract of employment for the period of 2 years, fully funded by the European Commission.

The beneficiary receiving EU funding (The ADAPT Centre through its host Institutions) recruits the researcher (Candidate) for the total period of the fellowship (24 months' duration). This recruitment will only happen if the proposal is selected for funding by the European Commission.

The EU provides the following support:

- a living allowance

- a mobility allowance
- if applicable, family, long-term leave and special needs allowances

In addition, funding is provided for

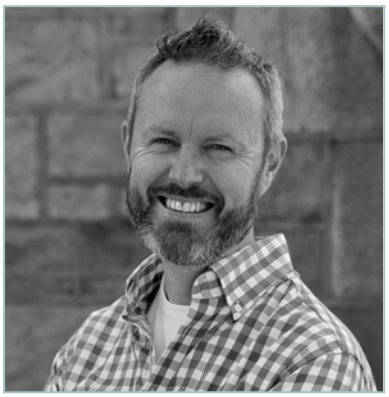
- research, training and networking activities
- management and indirect costs

ELIGIBILITY

Candidates must:

1. Have successfully defended their thesis or have been formally awarded a PhD degree at the time of the deadline.
2. Have a **maximum** of eight years' experience in research, from the date of the award of their PhD degree. Note that years of experience outside research and career breaks will not count towards the above maximum, nor will years of experience in research in countries outside of the EU, for nationals or long-term residents of EU Member States or Horizon Europe Associated Countries who wish to reintegrate to Europe.
3. Should comply with mobility rules: they must not have resided or carried out their main activity (work, studies, etc.) in the country of the beneficiary (Ireland) for more than 12 months in the 36 months (3 years) immediately before the call deadline. Special mobility rules apply for career break and researchers' at risk.

ADAPT Supervisors



Dr Aidan Meade

Technological University Dublin

Dr Aidan Meade is Head of Learning Development at the Faculty of Sciences and Health and a Lecturer in Physics at TU Dublin, with specialisation in imaging, radiobiology, and data science. He is a Funded Investigator at SFI ADAPT and Director of TU Dublin's BSc in Physics with Data Science. He is a member of the All-Island Cancer Research Initiative (https://www.aicri.org) and the National Spatial Profiling Consortium for Precision Medicine (https://www.aicri.org/naspro).

Dr Meades research concentrates mainly on the development of hyperspectral imaging, data treatment and analysis pipelines for application in precision oncology, particularly in chemical and digital pathology. The motivation of this activity is to develop diagnostic and prognostic solutions for use in individualized therapy planning for cancer.

For this call, Dr Aidan Meade is looking for projects in the area of Data fusion and modelling, particularly involving chemical imaging, pathological tissue imaging, -omics data, clinical imaging (e.g. CT, MRI) and clinical characteristics towards diagnostic and prognostic applications in precision medicine for cancer.

Research keywords: Digital pathology, chemical imaging, liquid biopsy, -omics, deep learning, graph networks, Bayesian networks, precision medicine.

Dr Ashish Kumar Jha

Trinity College Dublin

Dr Ashish Kumar Jha is an Associate Professor in the field of Business Analytics at Trinity Business School. He is the founding director of M.Sc. Business Analytics (Ranked 1st in Ireland and 24th Globally). He is a co-director of Trinity Centre for Digital Business and Analytics. He is a funded Investigator at SFI Research Centre ADAPT. Ashish holds a PhD in Information Systems and his research revolves around the areas of fake news and social media analysis. His work utilizes both secondary data based statistical analysis as well as controlled experiments. He is a distinguished member of Association of Information Systems and is a committee member for AIS early career awards. His papers have been published in many top journals of the field including Journal of MIS (listed in FT list of preferred journals), Information and Management, International Journal of Production Economics, Communications of AIS among others. He has also presented his work at numerous top conferences of the field including International Conference on Information Systems, European Conference on Information Systems, Decision Sciences Institute Annual Meeting, Informs Annual Meeting among others. Ashish serves as an Associate Editor for Information & Management and Information Systems Frontiers and a senior editor for JOCEC. Ashish has been a part of research groups working on robotic process automation in the IT services industry and jointly holds multiple patents in the field of IT services management and optimization.

For this call, Dr Ashish Kumar Jha is looking for projects in the broad area of social media, fake news, value of data and risk associated with data.

Research keywords: Social Media, Twitter Analytics, Business Analytics, Business Value of Data, Fake news, Misinformation, Disinformation, Technology Management, Information Management, Secondary Data Analysis, Business Value of Technology.

Prof Bert Gordijn

Dublin City University

Bert Gordijn is Full Professor and Director of the Institute of Ethics at Dublin City University in Ireland. He has studied Philosophy and History in Utrecht, Strasbourg and Freiburg in Breisgau. In 1995, he was awarded a doctorate in Philosophy from the Albert-Ludwigs-Universität Freiburg, followed by a doctorate in Bioethics from the Radboud University Nijmegen in 2003. Bert has been a Visiting Professor at Lancaster University (UK), Georgetown University (USA), the National University of Singapore, the Fondation Brocher (Switzerland), and Yenepoya University (Mangalore, Karnataka, India). He has served on Advisory Panels and Expert Committees of the European Chemical Industry Council, the European Patent Organisation, the Irish Department of Health and UNESCO. Bert is Editor-in-Chief of two book series: The International Library of Ethics, Law and Technology and Advances in Global Bioethics as well as a peer reviewed journal: Medicine, Health Care and Philosophy, all published by Springer Nature. He is Secretary of the European Society for Philosophy of Medicine and Healthcare and President of the International Association of Education in Ethics.

For this call, Prof Bert Gordijn is interested in projects related to the ethics of technology generally and ethics of AI specifically.

Research keywords: Ethics, Applied Ethics, Global Ethics, Science Ethics, Research Ethics, Technology Ethics, especially in relation to Artificial Intelligence, Trustworthy AI, AGI, Value Alignment, Large Language Models, Context Aware Conversational Agents.

Dr Brendan Spillane

University College Dublin

Dr Brendan Spillane is an Assistant Professor in the School of Information and Communication Studies in University College Dublin (UCD) and a Funded Investigator in the Science Foundation Ireland ADAPT Centre for AI-Driven Digital Content Technology. He completed his PhD in the School of Computer Science and Statistics in Trinity College Dublin which was focused on the impact of Bias as a dimension of Credibility on the judgement of news. After completing his PhD, he held concurrent positions as a Postdoctoral researcher on the H2020 PROVENANCE project (http://www.provenanceh2020.eu/) developing tools to detect and warn users of disinformation, and a two-year Government of Ireland IRC Postdoctoral Fellowship conducting a Systematic Literature Review and Meta Analysis of credibility research to inform the design of new tools and theory to analysis disinformation.

His work is focused on Human Judgement of Information at the intersection of Human Computer Interaction (HCI), Behavioural Science and Information Science. Common topics in his work include Bias, Credibility, Misinformation and Disinformation, News, and Information Security.

Dr Spillane is the Principal Investigator of the 3-year, €4m, 18 partner Horizon Europe VIGILANT project (www.vigilantproject.eu). The exciting project, which kicked off in November 2022, will equip European Police Authorities with advanced technologies from academia to detect and analyse disinformation campaigns that are linked with criminal activities. His winning proposal received a perfect 15:15 score. He is now actively involved in several other European project proposals related to disinformation.

For this call, Dr Brendan Spillane is looking for projects focused on:

- Misinformation, disinformation and other related forms of problematic content (e.g., hate-speech, radicalisation, incel, extremist).
- Bias, credibility and news in general
- The intersection of HCI and news, specifically relating to the design of and interactions with news websites and news apps
- The intersection of dialogue agents and misinformation and disinformation
- Dialogue agents as news providers

Research keywords: Misinformation, Disinformation, Bias, Credibility, News, Information Security, Human Judgement of Information at the intersection of Human Computer Interaction (HCI), Behavioural Science and Information Science.

Dr Brian Davis

Dublin City University

Dr Brian Davis Assistant Professor in Computing, Dublin City University and member of the SFI funded ADAPT Centre. Prior to taking up my appointment in 2019. He was a Lecturer at the Department of Computer Science, Maynooth University. From June 2014- August 2017, he was a Research Fellow, Adjunct Lecturer and Research Unit Leader at the INSIGHT Center for Data Analytics, NUI Galway (NUIG), where he led the Knowledge Discovery Unit focusing on the specific research areas of: Natural Language Processing, Data Visualization and Knowledge Discovery from heterogeneous data sources. He was also charged with managing a work package of the SFI Insight Grant. In addition, he was Principle Investigator of two SFI co-funded Targeted Projects (Elsevier and DataLive, respectively), Furthermore I was Coordinator of a 3 year Horizon 2020 Innovation Action – SSIX - Social Sentiment Financial Indexes (Grant No 645425).

While his original core expertise intersects with Natural Language Processing(NLP) and Ontology Development, he has expanded and diversified his research capacity over the years to other fields such as multilingual opinion mining of social media (application in finance, politics and online safety). Philosophically, he is orientated to the practice of language engineering, which aims to bridge the gap between computational linguistics/language processing research and the implementation of practical applications with potential real-world use. Examples include pipelined neural architectures for building Data2Text Natural Language Generation (NLG) systems (ii) bias detection and removal with the context of resume text analysis in the hiring and recruitment iii) applications of NLP to cyberbullying detection in short noisy text..

For this call, Dr Brian Davis is looking for projects focused on projects with a focus on NLP applications (information extraction) in the context of clinical psychology/psychotherapeutics or NLP tasks for the Irish language.

Research keywords: NLP Architectures and Infrastructures, Information Extraction, (Relation, Event Extraction) Ontology Development via NLP, NLP for the Irish language, Data2Text Natural Language Generation Systems. NLP applied to clinical psychology.

Dr Cathal Gurrin

Dublin City University

Dr. Cathal Gurrin is an Associate Professor and Deputy Head of the School of Computing, at Dublin City University (DCU), Ireland and he is the Head of the ADAPT Centre at DCU. His research interests are personal information systems and lifelogging, which integrates personal sensing, computer science, cognitive science and data-driven healthcare analytics to realise the next-generation of digital records for the individual. He has a H-index of 38 and is the founder of the annual ACM Lifelog Search Challenge at ICMR and the Lifelog and RCIR tasks at NTCIR. Finally he has been the General Chair of ECIR'11, MMM'14, CBMI'19, ICMR'20, MMM'22, MMM23 and ECIR'23. He is the author of Lifelogging: Personal Big Data from the FNTIR series.

For this call, Dr Gurrin is looking for projects in the area of personal data analytics, especially in User Modeling, Lifelogging, Personal Data Analytics/Retrieval and Health/Wellness Data Analytics.

Research keywords: Personal Data Analytics, Information Retrieval, Multimedia Information Retrieval, Lifelogging, Artificial Intelligence, User Models, Multimodal Data Analytics, Quantified Self, Comparative Evaluation.

Prof David Coyle

University College Dublin

Prof David Coyle is an Associate Professor with the School of Computer Science at University College Dublin. His research focuses on Human Computer Interaction (HCI) and the design of technology for health care, in particular mental health. From 2017-2021 he led the TEAM ITN, an EU Marie Skłodowska-Curie PhD training network in Digital Mental Health. His work has had a significant impact, including regular publications, large-scale deployments, and two successful spinout companies. He is a director of a not-for-profit company, Handaxe CIC, that develops technology to support adolescent mental health and participates regularly in Health Service Executive (HSE) task forces on digital mental health. Outside of the mental health space he has led HCI teams on projects in areas including digital epidemiology, smart home technologies, and technology to support rehabilitation for cardiovascular disease and cancer. He is a Funded Investigator with the Insight SFI Research Centre for Data Analytics and the ADAPT SFI Research Centre for AI-Driven Digital Content Technology. Prior to joining the UCD, he was a Senior Lecturer at the University of Bristol and Marie Curie Research Fellow at the University of Cambridge. He has earned competitive funding in excess of €7.5 million, including €5.2 million as Principal Investigator.

For this call, Prof David Coyle is interested in projects in the Digital Mental Health space and in Human Computer Interaction more broadly, as well as in the application of Human-Centred AI.

Research Keywords: Digital Mental Health, Digital Health, Health Technology, Human Computer Interaction, Implementation Science, Agency, Autonomy, ACM CHI Conference, Design Methods, Mixed Methods, Human-Centred Computing, Human-Centred AI

Prof Dave Lewis

Trinity College Dublin

Prof Dave Lewis is an Associate Professor at the School of Computer Science and Statistics at Trinity College Dublin where he served as the head of its Artificial Intelligence Discipline. He is the Interim Director of Ireland's ADAPT Centre for human centric AI and digital content technology research. He investigates open semantic models for trustworthy AI and data governance and contributes to international standards in digital content processing and trustworthy AI.

His research focuses on the use of open semantic models to manage the Data Protection and Data Ethics issues associated with digital content processing. He has led the development of international standards in AI-based linguistic processing of digital content at the W3C and OASIS and is currently active in international standardisation of Trustworthy AI at ISO/IEC JTC1/SC42 and CEN/CENELEC JTC21.

For this call, Prof Dave Lewis is looking for projects related to the future regulation and certification of AI systems, especially in the context of the EU AI Act and Data Sharing procedures related to this (under the Data Governance Act, the Data Act and the Health DataSpace proposals). He is also interested in projects that can contribute to open solutions of certification, conformance and compliance support, especially using open knowledge graphs such as those built on W3C semantic web vocabularies. This could include projects on: annotations of AI incident reports, metrology for AI system testing, AI dataset governance and quality assessment, AI fundamental rights impact assessments.

Research keywords: AI Regulation, AI Act, AI Standards, Fundamental Rights Protections, AI impact assessment, RegTech, Compliance Automation, AI Risk Assessment, AI Metrology, AI auditing, AI incident reporting, Open knowledge graphs, open semantic models, compliance in AI procurement.

Dr Deepu John

University College Dublin

Dr Deepu John is an Assistant Professor at the School of Electrical and Electronics Engineering, University College Dublin, Ireland. He obtained his B.Tech degree in Electronics and Communication Engineering from the University of Kerala, India in 2002, followed by his MSc and Ph.D. degrees in Electrical Engineering from the National University of Singapore in 2008 and 2014, respectively. From 2014 to 2017, he worked as a postdoctoral researcher at the Bio-Electronics Lab, National University of Singapore. Prior to this, he served as a senior engineer at Sanyo Semiconductors, Japan. Dr. John has received several awards, including the Institution of Engineers Singapore Prestigious Engineering Achievement Award (2011), Best design award at the Asian Solid-State Circuit Conference (2013), and IEEE Young Professionals, Region 10 individual award (2013). He has also served as a member of the organizing committee and/or the technical program committee for several IEEE conferences such as ISCAS, BioCAS, NorCAS, ICECS, AICAS, TENCON, ASICON, and ICTA. He is a reviewer of several IEEE journals and conferences and has served as a Guest editor for IEEE Transactions on Circuits and Systems-I and IEEE Open Journal of Circuits and Systems. Currently, Dr. John is an Associate Editor for IEEE Transactions on Biomedical Circuits & Systems, IEEE Transactions on Circuits & Systems-II, and Wiley International Journal of Circuit Theory & Applications. His research interests include IoT/Wearable sensing, Biomedical Circuits & Systems, and Edge computing. Dr. John is a Senior Member of the IEEE.

For this call, Dr Deepu John is looking for projects related to Edge Computing, Low Complexity AI, Healthcare Analytics, IoT Sensing, Wearable Devices, Embedded AI, Low-Power Hardware Acclerators (FPGA / SoC), Biomedical Signal Processing, Sensor Fusion, Multimodal Fusion.

Research keywords: Edge Computing, Low Complexity AI, IoT Sensing, Wearable Devices Machine Learning, Embedded AI, Low-Power Hardware Acclerators, FPGA and SoC for AI Acclerators, Biomedical Signal Processing, Healthcare Analytics, Sensor Fusion, Multimodal Fusion.

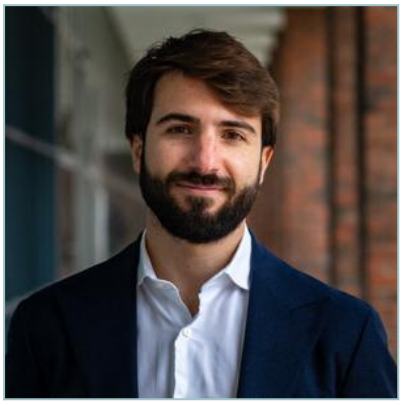
Dr Dympna O'Sullivan

TU Dublin

Dr Dympna O'Sullivan is Faculty Head of Research at the Faculty of Computing, Digital and Data at TU Dublin. Her research interests are in the area of Health Informatics, in particular in the design, development and evaluation of Decision Support Systems to support clinician and patient decision making. This work involves research across many aspects of the domain including electronic and personal health records, machine learning and intelligent algorithms, explainable AI, sensors and smart home technologies, accessible user interfaces and theories of health behavior change.

For this call, Dr Dympna O'Sullivan is looking for projects in the area of Health Informatics, in particular projects focused on interoperating patient generated health data with clinical systems to support patient self-management.

Research keywords: Health Informatics, Decision Support Systems, electronic and personal health records, patient-generated health data.



Dr Edoardo Celeste

Dublin City University

Dr Edoardo Celeste is an Assistant Professor of Law, Technology and Innovation at the School of Law and Government of Dublin City University. He specialises in EU and comparative digital law, focusing in particular on digital rights and constitutionalism, privacy and data protection, and social media governance.

Edoardo is the Programme Chair of the Erasmus Mundus Master in Law, Data and Artificial Intelligence (EMILDAI), the Deputy-Director of the DCU Law Research Centre, the coordinator of the DCU Law and Tech Research Cluster, and a founding member of the Digital Constitutionalism Network.

Edoardo has been involved in numerous competitively-won research projects securing funding both by public and private institutions. He was the principal investigator of the project 'Cross-Border Data Protection Network' funded by the Irish Research Council and the UK Economic and Social Research Council, and of the project 'Digital Constitutionalism: In Search of a Content Governance Standard' funded by Facebook Research. Edoardo is the author of the monograph 'Digital Constitutionalism: The Role of Internet Bills of Rights' (Routledge 2022). He published his works in leading legal journals and edited the books 'Data Protection Beyond Borders' (Hart 2021) and 'Constitutionalising Social Media' (Hart 2022).

Edoardo holds a PhD from University College Dublin and previously studied law at the University of Rome 'La Sapienza', at the University of Paris II 'Panthéon-Assas', and at King's College London. He is currently affiliated with the ADAPT Centre and the UCD Centre for Human Rights, and he is a member of the Ethics, Politics, Law and Philosophy Committee of the Royal Irish Academy. Edoardo won the Irish Research Council Early Career Researcher of Year Award 2022.

For this call, Dr Celeste is interested in projects in the area of digital sovereignty, digital constitutionalism, digital rights, data imperialism, social media law and governance, AI regulation, privacy and data protection law.

Research Keywords: Digital Sovereignty, Digital Constitutionalism, Digital Rights, Data Imperialism, Social Media Content Governance, Ai, Privacy, Data Protection

Prof Gareth Jones

Dublin City University

Prof Gareth Jones is a Principal Investigator in the SFI ADAPT Centre and a Professor in the School of Computing at Dublin City University (DCU), Ireland. His research interests encompass a broad range of topics in information retrieval, including conversational and proactive search, speech, image and video search, multilingual search, applications of search technologies in areas such as medicine, law and food. He has published more than 500 papers at international conferences and workshops and journals, including receiving a number of best paper awards. He received the DCU President's Award for Research (Engineering and Physical Sciences) in 2021. He regularly serves as a programme committee or senior programme committee member of the leading international conferences in information retrieval, natural language processing, speech processing, multimedia and human-computer interaction, as well as reviewing for journals in all these areas. He has served as information retrieval track chair for ACM CIKM 2010, programme co-chair of ECIR 2011, general co-chair of ACM SIGIR 2013, general co-chair of CLEF 2017 and general co-chair of InterSpeech 2023. He has previously held positions at the University of Exeter, U.K. and University of Cambridge, U.K. and was a Visiting Fellow with the Toshiba Corporation, Japan. He holds B.Eng. and PhD degrees from the University of Bristol, I.K.

For this call, Prof Gareth Jones is interested in projects focused on fundamental examination of search methodologies for areas including conversational search, proactive search, multimedia search (in particular for spoken content), from the perspectives of user interaction in search, algorithms for search and search evaluation in these topical areas.

Research keywords: Search, Information Retrieval, Conversational Search, Proactive Search, Multimodal/Multimedia Search, Search Evaluation (Laboratory-Based Methods, User Studies, Test Collection Creation, Evaluation Metrics)

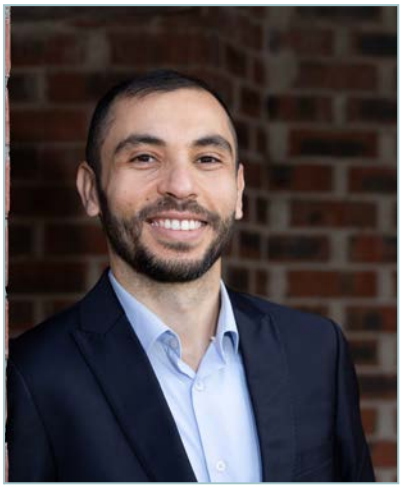
Dr Gavin Doherty

Trinity College Dublin

Dr Gavin Doherty is an Associate Professor and Fellow at the School of Computer Science and Statistics at Trinity College Dublin, Ireland (https://www.scss.tcd.ie/Gavin.Doherty). He obtained his doctorate at the University of York, UK. He conducts research in the area of Human Computer Interaction (HCI), with a focus on digital health, and leads the Health Technology Design Group at TCD (https://htd.scss.tcd.ie). The ultimate goal of his research is to better understand human interactions with technology, and use this understanding in the design of new technologies. In the area of digital mental health, he has led a team in the development of a series of innovative technology interventions which have had a profound impact on the delivery of digital mental health services worldwide. He led the development of the SilverCloud platform for human-supported online mental health interventions, which has been used to deliver evidence-based interventions to over 1 million people. The focus of his work has been on supporting and extending the reach of mental health professionals, and designing engaging systems in which clients have a greater degree of agency. Recent work has investigated human-centred approaches to the integration of machine learning in mental health. He is a Distinguished Member of the ACM, serves on the ACM Practitioners Board, and is Chair of the ACM Distinguished Speaker Program (https://speakers.acm.org). He has published extensively in Human-Computer Interaction and medical informatics venues, including three best papers (top 1%) at the ACM CHI Conference.

For this call, Dr Doherty is interested in supervising projects in the area of digital health which take a human-computer interaction perspective, and particularly human-centered AI in healthcare.

Research keywords: digital health, human-computer interaction, user engagement, user acceptance, healthcare, machine learning, artificial intelligence, ecological momentary intervention, mental health, smartphone, sensing, wearables, just-in-time adaptive interventions.



Dr Haithem Afli

Munster Technological University

Dr Haithem Afli is a leading expert in Natural Language Processing and applied Artificial Intelligence in Healthcare, Life-science, and Fintech. Dr Afli is lecturing AI within the Computer Science Department of Munster Technological University (MTU) in Ireland and leading the MTU Human Centred AI Research Group, HAI. Dr Haithem Afli is Science Foundation Ireland funded investigator at ADAPT Centre where he is a member of the ADAPT Executive Management Committee, representing MTU. His research interest is primarily focused in the areas of Machine Translation, Sentiment Analysis, Natural Language Processing and Machine Learning. Dr Afli is a senior IEEE member serving as Editor, Program Chair, Program Committee Member and advisor in many international research conferences and journals. As an academic researcher, Dr Afli is keen to commercialise his research with industry partnerships and is actively involved in managing academia-industry partnership projects including co-founding LinguAnalysis.ai.

For this call, Dr Haithem Afli is looking for projects in the area of NLP applications, AI for political and social sciences, Edge Intelligence, Federated learning, AI for computational biology, AI for Fintech.

Research keywords: Natural Language Processing, Edge Intelligence, Federated Learning, Human Centred Ai, Ehealth, Distributed Collaborative Machine Learning; Split Learning; Multi-Head Split Learning; Parameter Transmission-Based Distributed Machine Learning; Privacy-Preserving Machine Learning; Information Leakage In Distributed Learning.

Dr Harshvardhan Pandit

Dublin City University

Dr Harshvardhan Pandit is an Assistant Professor at the School of Computing in Dublin City University. His research interests are focused on the application of semantics towards solving real-world challenges associated with privacy, legal and regulatory compliance, and consent. His PhD (Computer Science, Trinity College Dublin) explored the application of linked data and semantic web technologies towards GDPR compliance, with a particular focus on consent and provenance. He currently co-chairs the W3C Data Privacy Vocabularies and Controls Community Group (DPVCG) – which develops interoperable vocabularies for privacy and data protection activities based on legal and practical requirements. He is a member of the National Standards Authority of Ireland and contributes to ISO/IEC JTC1/SC27 standardisation activities regarding privacy and consent.

For this call, Dr Harshvardhan Pandit is looking for projects in the following areas

1. Active and applied research relating to modelling regulatory requirements such as those for GDPR, or checking its compliance.
2. Works investigating meaningful consenting practices such as developing better mechanisms for notices, automating expressing choices, and digital assistants that help understand requests, highlight risks, and enforce good privacy and data protection practices.
3. Assisting with risk assessment and management by utilising semantics to identify risks applicable, mitigations, and potential consequences and impacts.
4. Application of semantics, data governance, standardisation, personal data stores, and knowledge graphs in mentioned topics.

Research keywords: GDPR, Privacy, Data Protection, Consent, Semantics, Data Modeling, Schema, Privacy Signals, Internet, Digital Literacy, Risk Management, Impact Assessment, Data Governance, Standardisation, Personal Data Stores, Knowledge Graph

Prof Hitesh Tewari

Trinity College Dublin

Prof Hitesh Tewari is an Assistant Professor in the School of Computer Science and Statistics at Trinity College Dublin, Ireland.His research interests lie in the areas of network security and applied cryptography. In recent years he has been actively work-ing in the area of distributed ledger technologies.

In particular he is working in the areas of Identity Management, eVoting, eHealth, Post-Quantum Cryptography, V2X and IoT Security, Privacy Preserving Smart Contracts, Consensus Mechanisms.

You can find more details about his work in these areas at the following link.

For this call, Prof Hitesh Tewari is looking for projects in the area of Network Security and Applied Cryptography

Research keywords: Cryptography, Applied Cryptography, Security, Blockchain, Distributed Ledger Technologies, Privacy, Internet of Things (IoT) Security, Autonomous Vehicle Security, V2X, AI and Security, Network Security

Dr John Dinsmore

Trinity College Dublin

Dr John Dinsmore is an Ussher Associate Professor of Digital Health and Integrated Care and Deputy Director of the Trinity Centre for Practice and Healthcare Innovation (TCPHI) at the School of Nursing and Midwifery (SNM).

Dr Dinsmore's research primarily focuses on the application of health psychology and behavioural science to the design, development, implementation and evaluation of digital health interventions for individuals self-managing chronic diseases (including multimorbidity). This includes understanding and advancing the role played by an individual's care network (family, informal and formal carers and health care professionals) as part of their self-management regime. Outcomes from his research aim to understand and maximise the appropriate use of digital health technologies as part of a person-centred, digital integrated care approach to home and community based health and well-being management. His work also seeks to strengthen academic, health service and industry collaboration in order to translate research outcomes into practice within health and social care environments.

For this call, Dr John Dinsmore is looking for projects that wish to focus on digital health interventions for chronic disease management (including multimorbidity) and the advancement of digital integrated care.

Research keywords: Behavioural Change; Chronic Disease; Chronic Disease Management; Chronic Disease Self-Management; Digital Behavioural Change Interventions; Digital Health; Digital Integrated Care; eHealth; Health informatics; Health Psychology; Healthcare Ecosystem; Healthcare Innovation; Informal Caregiving; Medical technology; mHealth; Mobile Applications; Multimorbidity; Patient and Public Involvement in Research; Remote Monitoring.

Dr Joss Moorkens

Dublin City University

Dr Joss Moorkens is an Associate Professor at the School of Applied Language and Intercultural Studies in Dublin City University, where he leads the Transforming Digital Content group at the ADAPT Centre. He is also associated with the DCU Institute of Ethics and Centre for Translation and Textual Studies. He has authored or coauthored journal articles, book chapters, and conference papers on translation technology, machine translation post-editing, user evaluation of machine translation, translator precarity, and translation ethics. He is General Co-Editor of the journal Translation Spaces with Prof. Dorothy Kenny, co-editor of a number of books and special journal issues including a forthcoming special issue of the Journal of Specialised Translation, and coauthor of the textbook Translation Tools and Technologies (Routledge 2023). He leads the Technology working group (with Prof. Tomáš Svoboda) as a board member of the European Masters in Translation network.

For this call, Dr Joss Moorkens is looking for projects in the area of translation technology, machine translation, human factors in translation technology, multimedia translation, technology ethics, and related topics in philosophy of technology.

Research keywords: Translation Technology, Machine Translation, Human Factors In Translation Technology, Technology Ethics, Data Literacy, Transversal Skills, Translation Theory, Audiovisual Translation, Multimedia Translation, Media Accessibility

Dr Kevin Credit

Maynooth University

Dr Kevin Credit is an Assistant Professor at the National Centre for Geocomputation at Maynooth University and an Academic Collaborator at the ADAPT Centre for Digital Media Technology, in the Digital Content Transformation (DCT) Strand. His ADAPT-related research focuses primarily on using machine learning (ML) and artificial intelligence (AI) approaches to answer questions related to transportation, public health, economic development, and spatial patterns of inequality in urban areas. In particular, he is interested in how ML and AI methods can be designed to: 1) more explicitly integrate spatial information and spatial ways of thinking, 2) assess problems of causal inference, and 3) provide better insight into the explanatory relationships driving model results. Kevin is currently working on a range of projects and proposals in this area, including the development of an integrated health + environment spatial data dashboard for the Dublin 8 neighbourhood, an AI tool to help increase building energy retrofit uptake, a method to characterise the built environment, economic, and social 'DNA' of startup neighbourhoods, and an analysis of non-auto commuting patterns in Dublin. He is an Affiliate Member of the Maynooth University Hamilton Institute (2022), a Fellow of the Center for Spatial Data Science at the University of Chicago (2021), and received his PhD in Geography from Michigan State University in 2018.

For this call, Dr Kevin Credit is looking for projects that use or develop novel quantitative methods to analyze large spatial open datasets. Topically, anything related to urban systems and sustainability - including non-auto transportation, economic development, public health, and social inequalities.

Research keywords: Spatial, Open Data, Machine Learning, Artificial Intelligence, Causal Inference, Street Networks, Transportation, Emissions, Walkability, Entrepreneurship, Innovation, Retail, Public Health, Green Space, Building Energy

Dr Mohammed Hasanuzzaman

Munster Technological University

Dr Mohammed Hasanuzzaman is a Lecturer (Assistant Professor) at the Department of Computer Science, Munster Technological University, Ireland. He is also a Funded Investigator at the ADAPT Centre- A World Leading Science Foundation of Ireland Research Centre and Associate Researcher at CNRS GREYC UMR 6072 Research Centre (https://www.greyc.fr/), France. He has extensive experience working within academia and industry.

Mohammed earned his doctorate degree from the French National Centre for Scientific Research (CNRS) Lab hosted at the Ecole Nationale Supérieure d'Ingénieurs de Caen – ENSICAEN and University of Caen Normandie, France. His research interests and activities over the past 10 years have been in Artificial Intelligence mainly Natural Language Processing (NLP), Data Mining, e-health and Machine Learning/Deep Learning applications for various domains.

Till date, he has authored/co-authored 50+ papers in a range of highly respected conferences (mainly Core rank A*/A) and journals (mainly Q1). Currently, he is involved in several EU funded large-scale projects as PI/Co-PI such as Watching the risk factors (WARIFA): Artificial intelligence and the prevention of chronic conditions, STEM- in Action; Open Educational Resources for Teachers, ITFLOWS, and MOVES-Monitoring Virtual Crowds in Smart Cities.

He currently serves on the Editorial Board of several reputed journals such as IEEE Transactions on Affective Computing, IEEE Transactions on Computational Social Systems, The ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP), Nature Scientific Reports (Nature portfolio), PLOSOne and Computer Speech and Language (CSL). He was involved as an Expert in the process of preparing the future work programme 2023-2024 by the European Commission.

Mohammed is recipient of several awards: French Ministry of Superior Education and Research Fellowship, Erasmus+ staff mobility for teaching and training and Dublin City University's INVENT Award for Engagement with Business/Industry for the year 2018 and funded under 'Emerging Leader' category. For more information, please visit: https://mohammedhasanuzzaman.github.io

For this call, Dr Mohammed Hasanuzzaman is looking for interdisciplinary projects in the area of Natural Language Processing (NLP), especially information retrieval, information extraction, semantics, low-resource language processing, Machine Translation, Data Mining, e-Health and Machine Learning application to various domains.

Research Keywords: Natural Language Processing (NLP), especially Information Retrieval, Information Extraction, Semantics, Low-Resource Language Processing, Machine Translation, Data Mining, E-Health and Machine Learning Application To Various Domains.

Prof Naomi Harte

Trinity College Dublin

Prof Naomi Harte is Professor in Speech Technology in the School of Engineering in Trinity College. She is Co-PI and a founding member of the ADAPT SFI Centre. In ADAPT, she has led a major Research Theme centered on Multimodal Interaction involving researchers from Universities across Ireland and was instrumental in developing the future vision for the Centre for 2021-2026. She is also a lead academic of the hugely successful Sigmedia Research Group in the School of Engineering. She was appointed as an SFI Engineering Initiative Lecturer in Digital Media in TCD in 2008 (Stokes Programme). Prior to returning to academia, Naomi worked in high-tech start-ups in the field of DSP Systems Development, including her own company. She also previously worked in McMaster University in Canada. She was a Visiting Professor at ICSI in 2015, and became a Fellow of TCD in 2017. She earned a Google Faculty Award in 2018 and was shortlisted for the AI Ireland Awards in 2019. She currently serves on the Editorial Board of Computer Speech and Language and will Chair Interspeech 2023 in Dublin.

Naomi's research centres around Human Speech Communication. She likes to consider speech as something we both hear and see, with a strong multimodal aspect to her work. Her research involves the design and application of mathematical algorithms to enhance or augment speech communication between humans and technology. Much of that work is underpinned by signal processing and machine learning, but also requires an understanding of how humans interact. Her current research projects include audio-visual speech recognition, speech synthesis evaluation, multimodal speech analysis, and birdsong. Her industrial background brings a real-world approach to her research.

For this call, Prof Naomi Harte is looking for projects in the area of audio-visual speech recognition, speech synthesis evaluation, or multimodal speech analysis. She values an interdisciplinary team and is open to team members who are engineers, computer scientists, linguists, psychologists or from other disciplines, if they can identify complementary research.

Research keywords: Speech, Speech Communication, Human Interaction, Multimodal Speech Analysis, Deep Learning, Machine Learning, Speech Signal Processing, Audio-Visual Speech Recognition, Turn-Taking, Multiparty Interaction.

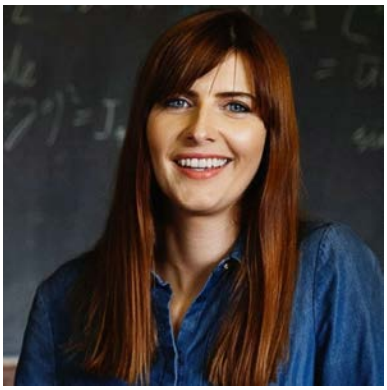
Dr Niall Murray

Technological University of the Shannon

Dr Niall Murray (Member, IEEE) is a Senior Lecturer with the Faculty of Engineering and Informatics, Technological University of the Shannon (Athlone Campus), Ireland. He is also the Founder, in 2014, and the Principal Investigator (PI) in the truly Immersive and Interactive Multimedia Experiences (tIIMEx) Research Group in TUS. He is a Science Foundation Ireland (SFI) Funded Investigator (FI) with the SFI Adapt Centre for AI enabled Digital Content and an FI with the Confirm Centre for Smart manufacturing. He is an Associate PI with the Enterprise Ireland Funded Technology Gateway COMAND. His current research interests include immersive and multisensory multimedia communication and applications, multimedia signal processing, quality of experience, and wearable sensor systems (further information available at: www.niallmurray.info). He is coordinator of the Horizon Europe TRANSMIXR project (https://www.transmixr.eu/).

For this call, Dr Niall Murray is looking for projects in the area of XR, Human Centric AI and their application across a range of application domains - in particular health.

Research keywords: Extended Reality, Virtual Reality. Human Centric AI, Wearable Sensor systems, User centred design, Social XR, Volumetric Video, User Assessment



Prof Rachel McDonnell

Trinity College Dublin

Prof Rachel McDonnell is an Associate Professor of Creative Technologies at Trinity College Dublin, Ireland. Her research focuses on animation of virtual characters, using perception to both deepen our understanding of how virtual characters are perceived, and directly provide new algorithms and guidelines for industry developers on where to focus their efforts. She has published over 100 papers in conferences and journals in her field, including many top-tier publications at venues such as SIGGRAPH, Eurographics, and IEEE TVCG, etc. She serves as Associate Editor on journals such as ACM Transactions on Applied Perception and Computer Graphics Forum, and is a regular member of many international program committees (including ACM SIGGRAPH and Eurographics).

For this call, Prof Rachel McDonnell is interested in calls in the area of Computer Graphics.

Research keywords: Virtual humans, computer animation, virtual reality, Perception, machine learning, social VR, embodiment, virtual conversational agents, uncanny valley, computer graphics, optimisation, facial animation, perceptual adaptive graphics, facial action coding system, proxemics, spatial audio in VR.

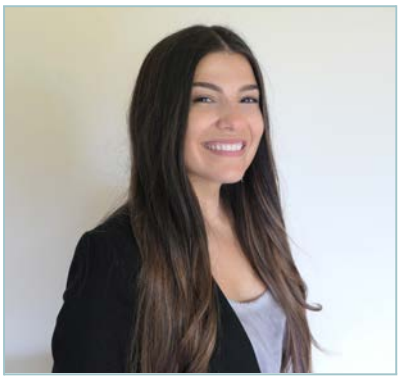
Prof Rozenn Dahyot

Maynooth University

Prof Rozenn Dahyot is Professor of Computer Science at Maynooth University (Ireland) in the Hamilton Institute, and a PI in the SFI ADAPT Research Centre for Digital Content Technology. She led the effort for organising the European Signal Processing Conference EUSIPCO2021 in Dublin in 2021 (August 23-27th 2021). Dr Dahyot is a member of IEEE, ACM, EURASIP and IPRCS.

For this call, Prof Rozenn Dahyot is interested in projects that are blue sky (e.g. Theoretical Machine Learning) or applied projects involving data analysis for contributions for instance in climate change, sustainability, health.

Research keywords: Pattern Recognition, Shape analysis, Machine Learning, Statistics, robust statistics, Computer Vision, Computer Graphics, Artificial Intelligence (AI), explainable AI, low compute AI, remote sensing, mapping, biomedical imagery analysis, uncertainty modelling, data science, data synthesis, multi-sensor fusion, Convolutional Neural Networks, transformers, Graph Neural Networks, markov random fields, Object detection and recognition, Object pose recognition, Image Understanding, Simultaneous Localisation and Mapping (SLAM), NERF, Information Theory, functional data analysis, digital signal processing, Optimal transport, graph learning



Dr Sheila Castilho

Dublin City University

Dr Sheila Castilhois an Assistant professor in SALIS at Dublin City University. She graduated in Linguistics and Education from the UNIOESTE University in Brazil. She holds a joint Master in Natural Language Processing from the University of Wolverhampton –UK and the University of Algarve – PT. She completed her PhD dissertation at Dublin City University in 2016. Previously, she was an Irish Research Council Research Fellow at the ADAPT Centre working on the DELA Project, which aimed to test the existing human and automatic sentence-level metrics to the document-level and define best practices for document-level machine translation evaluation. She has authored several journal articles and book chapters on translation technology, post-editing of machine translation, user evaluation of machine translation, and translators' perception of machine translation – over 40 publications to date. She is a co-editor of the book 'Translation Quality Assessment: From Principles to Practice', published in 2018 by Springer. Her research interests include machine translation, post-editing, machine and human translation evaluation, document-level machine translation, usability, and translation technologies.

For this call, Dr Sheila Castilho is looking for projects in the area of Context-Aware Machine Translation and Large Language Models, Document-level machine translation evaluation, NLP for translation, and translation technologies.

Research keywords: Machine Translation, Post-Editing, Machine And Human Translation Evaluation, Document-Level Machine Translation, Usability, NLP For Translation, And Translation Technologies.

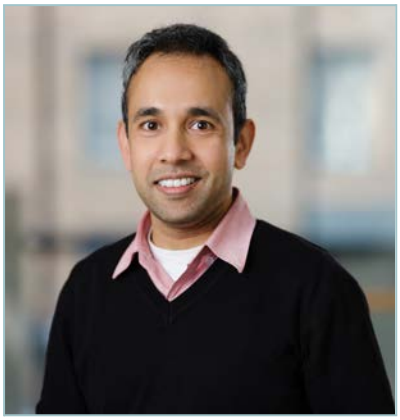
Prof Vincent Wade

Trinity College Dublin

Professor Vincent Wade is co-founder and former Director of the ADAPT Centre for Digital Content Technology. He holds the established Professorial Chair of Computer Science (Est. 1990) in School of Computer Science and Statistics, Trinity College Dublin as well as a Personal Chair in Artificial Intelligence. His research focuses on Personalisation, Conversational Systems (Chatbots/Personal Agents), AI in Education, User Modelling and Representation Techniques and techniques for Deep Learning based AI. He was awarded Fellowship of Trinity College for his contribution to research and has published over three hundred and fifty scientific papers in peer reviewed international journals and conferences. In 2018, he was awarded the Provost Innovation Award, the highest accolade the university can bestow for international research impact. As Director of ADAPT for 12 years, Vincent led the formation and expansion of the world leading research centre in Human Centric AI (AI driven research across text, video, speech, image, VR/AR media). ADAPT pioneers research in media analytics, advanced machine learning, machine translation, media personalisation, speech and multimodal interaction, and ethics and privacy in media. Vincent was also the co-founder of a successful TCD spin-out company called EmpowerTheUser which specialises in video based simulation technology and immersive learning analytics which was acquired for approx. $50M. Other awards won by Professor Wade include the European Language Label Award for innovation in Language Learning Technology (2010). He also holds multiple patents and invention disclosures in the area of personalisation and digital content technologies.

For this call, Prof Vinny Wade is interested in projects involving Conversational AI or Chatbots, Personalisation and Personas for Conversational Agents, AI driven Educational Technology.

Research keywords: Conversational AI, Chatbots, Chatbot Personas, Personalised Chatbots, Personalisation, AI driven Educational Technology, User Representation, User Modelling, Intelligent Tutoring Systems, Learning Analytics, Data Mining for Educational Applications.



Dr Vivek Nallur

University College Dublin

Dr Vivek Nallur works on Machine Ethics. He is interested in how to implement and verify ethics in autonomous machines. Questions such as what kinds of ethics would autonomous machines agree to among themselves, how would we ensure that individually ethical machines don't combine to produce un-ethical behaviour, are interesting to pose and answer computationally. This is, by nature, an interdisciplinary thread and he is quite interested in collaborating with folks in the field of philosophy/law/politics etc. Dr Nallur is very interested in complex self-adaptive systems, engineering emergent feedback loops, predicting and controlling emergence. He is the co-PI of an IRC project on computing possible ethical violations of migrant rights, using multi-agent simulations (MAS). Multi-Agent Systems (MAS) is his preferred tool for approaching problems in self-adaptation, complexity, emergence, etc. They lend themselves to extensive forms of experimentation: having all agents follow simple rules, implementing complex machine-learning algorithms, investigating the interplay of different algorithms being used at the same time, are all possible with relatively simple conceptual structures.

For this call, Dr Vivek Nallur is interested in projects relating to computing ethical decisions, decision-making under uncertainty, adaptive nudging by autonomous machines, and multi-agent simulations

Research keywords: Machine Ethics, Multi-Agent Systems, Social Simulation, Nudging, Behavioural Decision-Making, Ethical AI, Emergence, Autonomic Systems, Complex Adaptive Systems, Causal Reasoning, Causal Inference, Inter-Disciplinary Research