

Postdoctoral Fellowships (PF) 2022

Opening: 13th April 2022

Deadline: 14th September 2022

The [ADAPT Centre](#) is excited to invite applications from experienced researchers in the areas of computer science, engineering, e-learning, animation/games, speech and music, linguistics and low-resourced languages, mathematics, digital marketing and web analytics, law, ethics, social science, and digital health **to apply for competitive and career enhancing 2-year European Postdoctoral Fellowships (PF), a Horizon Europe Marie Skłodowska-Curie Action.**

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 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.

To submit an expression of interest please complete the following form:

<https://forms.gle/oMNLpVmk5sjuAjbX6>

To learn more about the scheme, please visit:

<https://ec.europa.eu/research/mariecurieactions/actions/postdoctoral-fellowships>

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 40 competitive EU research projects and obtained €41 million in non-exchequer non-commercial funding. Additionally, six 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 National University of Ireland 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: https://forms.gle/oMNLpVmk5sjuAjbX6](https://forms.gle/oMNLpVmk5sjuAjbX6)

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 Eols opening	04th of April 2022
Submission of Eols to ADAPT	20th June 2022

Review of Eols	Once an Eol 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
Submission of full draft (with final budget) to ADAPT	19th of August 2022
MSCA PF submission deadline	14th of September 2022 @ 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.

MSCA Postdoctoral Fellowship 2022 ADAPT Supervisors



Dr. Aisling Keenan
Technological University of the
Shannon
(TUS)

Dr Aisling Keenan Gaylard is a lecturer and researcher with Technology University of the Shannon (TUS): Midlands Midwest in Ireland. Aisling is the programme co-ordinator of the MSc in Digital Marketing at TUS: Midlands Midwest. Aisling currently supervises two PhD students, she contributes annually to the Academy of Marketing, the British Academy of Management and the Irish Academy of Management Conferences. Before joining academia, Aisling previously worked as a web developer and SEO consultant. Aisling research interests lies in technology adoption and usage, employee user behaviour, social media usage, and data analysis using

structural equation model (SEM). Aisling obtained both her PhD and Masters in Business in eCommerce from the National University of Ireland, Galway.

For this call, Dr Keenan is looking for projects in the areas of responsive web programming, web analytics, and digital marketing.



Dr Aphra Kerr
Maynooth University
(MU)

Dr Aphra Kerr is a Professor at the Department of Sociology at Maynooth University and a Co-PI at the ADAPT Centre for Digital Media Technology. She is the scientific lead of the Transparent Digital Governance strand. Her ADAPT research focuses on the governance of AI systems, especially in relation to ethics, public values and harm, public policies shaping the social expectations and deployment of AI, and evaluating the impacts of AI on workers, users and citizens. Aphra is also involved in

interdisciplinary projects researching inclusion and exclusion in smart cities and social/communicative robots. Aphra was on the multi-stakeholder Media and Technology committee of the European AI4people initiative (2020) which contributed to policy recommendations on trustworthy AI for the digital media domain. Her latest publications include: *Global Games: Production, Circulation and Policy*, Routledge, 2017 and she was the associate editor of the *International Encyclopedia of Digital Communication and Society*, (2015). She has held visiting fellowships at the University of Edinburgh (2019) and the University of Pennsylvania (2011). She was accepted into the Academia Europaea in 2020.

For this call, Dr Kerr is looking for projects in the following areas:

- Social impacts of AI in different domains – projects evaluating the social impacts of AI systems especially in relation to bias, transparency, and inequality
- Approaches for addressing transparency and responsibility in digital governance – especially in the governance of media, games, smart cities, healthcare, education
- Public policies related to AI – at national and international level – expectations, discourses, actors, relationship to fundamental values and ethical principles
- Artistic and creative interventions in and with AI for citizen engagement and empowerment



Dr Benjamin Cowan
University College Dublin
(UCD)

Dr Benjamin R Cowan is Assistant Professor at UCD's School of Information & Communication Studies. He is a Funded Investigator within the ADAPT Centre, taking on the roles of Interaction & Control Research Challenge lead and NENC lead within the Digital Engagement Strand. He completed his undergraduate studies in Psychology & Business Studies (2006) as well as his PhD in Usability Engineering (2011) at the University of Edinburgh. His research lies at the juncture between psychology, human-computer interaction

and communication systems in investigating how design impacts aspects of user behaviour in social, collaborative and communicative technology interactions. His recent research has focuses specifically on how theory and quantitative methods from psychological science can be applied to understand and design speech and language technologies as well as how we can design for habit change across of number of domains and contexts. Dr Cowan is the co-founder and co-director of the HCI@UCD group, one of the largest HCI groups in Ireland, and the Conversational User Interfaces conference series. He is also director of the MSc in Human-Computer Interaction at UCD. Through his research he has collaborated regularly with industry, partnering with companies such as Microsoft Research, Cerego and Voysis.

For this call, Dr Cowan is looking for projects in the areas of speech agent topics, specifically around the interaction/user experience/theoretical explorations of user language production in interaction.



Prof. Boualem Benatallah
Dublin City University
(DCU)

Prof. Boualem Benatallah is a full professor of computing at Dublin City University (DCU, Ireland) since Jan 2022. Professor Benatallah has had over 21 years as a senior lecturer, associate professor, professor and then scientia professor at UNSW Sydney (Australia) before joining DCU. His main research interests are developing fundamental concepts and techniques in service Web composition, Web services middleware, quality control in crowd sourcing services, conversational cognitive services, and business processes automation. He has published

more than 300 refereed papers including more than 90 journal papers. His work is highly cited (over 23,000 citations, h-Index: 66, according to Google Scholar). He is a member of the steering committee of BPM and ICSSOC conferences. He is member of the editorial board of numerous international journals including ACM Transactions on Web and IEEE transactions on services computing. He is fellow of the IEEE.

For this call, Prof. Benatallah is looking for project in the areas of:

- Cognitive Services and Processes (language models, intent synthesis);
- AI/crowd-based Conversational Training Generation (paraphrasing, dialogs);
- Quality control in AI data and models (bias, errors);
- AI augmentation and automation for processes (vulnerability discovery, software engineering, research, education, research t processes);
- Superimposition of conversational services over APIs, Web and Mobile apps.



Dr Cathy Ennis
Technological University Dublin
(TU Dublin)

Dr Cathy Ennis is a lecturer in the School of Computer Science in the Technological University of Dublin. The majority of her research is based in the field of Computer Graphics, specifically in perceptually guided graphics. She is interested in using Machine Learning for the creating of plausible animations and behaviours for virtual humans and groups in serious games and other realistic virtual environments.

For this call, Dr Ennis is looking for projects in the areas of animation, perception, working in 3D or VR environments, serious games and conversational agents.



Dr Edoardo Celeste
Dublin City University
(DCU)

Dr Edoardo Celeste is Assistant Professor in Law, Technology and Innovation at Dublin City University, where he teaches in the areas of privacy, data protection and intellectual property law. His research interests lie in the field of digital rights and constitutionalism, social media policy and regulation, privacy and data protection law, EU digital policies, and digital economics. Edoardo is currently involved in two research projects with ADAPT: he is the principal investigator of the project 'Digital

Constitutionalism: In Search of a Content Governance Standard' funded by Facebook Research, and investigator in the project PRIVATT - Assessing Irish Attitudes to Privacy in Times of COVID19, funded by Science Foundation Ireland. From 2016 to 2020, Edoardo was an Irish Research Council Government of Ireland Scholar at the Sutherland School of Law of University College Dublin. His PhD thesis 'Digital constitutionalism: The Role of Internet Bills of Rights' examines how the digital revolution is changing contemporary constitutionalism, and explores the constitutional role of Internet bills of rights. Edoardo 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 an alumnus of the European Law School (Humboldt-Universität zu Berlin). Over the past few years, Edoardo has been visiting researcher at the Nexa Center for Internet & Society of Torino and at the Center for Information Technology, Society, and Law (ITSL) of Zurich. In 2018, he was research fellow at the Humboldt Institute for Internet and Society (HIIG) of Berlin.

For this call, Dr Celeste is looking for projects in the area of digital rights in general, with a particular focus on data protection, and social media governance. He is also interested in supervising projects on new EU regulations in the digital field, Digital Sovereignty, interplay between AI and human/constitutional rights, regulation of online content and platforms.



Dr Kevin Credit
Maynooth University
(MU)

Dr Kevin Credit is an Assistant Professor in the National Centre for Geocomputation and Department of Geography at Maynooth University. Broadly, his research is focused on the development and use of new spatial data science approaches for urban analytics. Methodologically, he is interested in spatial econometrics, causal inference, and spatial machine learning, as well as issues around the use and development of large open spatial datasets such as missingness, spatial representativeness, and public engagement. Substantively, Dr Credit's work looks at a variety of urban economic and transportation issues, including the spatial patterns of

entrepreneurship and agglomeration, retail dynamics, the influence of the built environment on non-auto travel, and transportation-related CO2 emissions. He is also interested in exploring spatial inequalities in the distribution of resources, access to services, and public health outcomes. Some of his recent work in this area looks at racial and ethnic disparities in COVID-19 outcomes, the distribution of social service resources in New York City, and racial disparities in policing in the US.

For this call, Dr Credit is looking for projects in the following areas:

- Changes in transportation patterns, retail dynamics, and agglomeration due to the COVID-19 pandemic and resulting shifts to remote work
- Studying the large- and small-scale effects of transportation investments on emissions and economic development
- Application of computer vision techniques and other (spatial) machine learning techniques to identify retail storefronts and classify businesses by type/function
- Development and application of explanatory machine learning methods with spatial features, e.g., causal forest, Deep Gravity models, and Geographically-Weighted random forest.



Prof Rozenn Dahyot
Maynooth University
(MU)

Prof. Dahyot is a Professor of Computer Science at Maynooth University (Ireland) and a PI in the SFI ADAPT Research Centre. Her research interests are in pattern analysis and machine intelligence (machine learning, AI) with signal processing applications (e.g. remote sensing, computer vision, computer graphics), applied for instance for automatic asset mapping (see <https://aimapit.com> for commercialization of technology developed in her group). She

has been the President of the Irish Pattern Recognition and Classification Society (<http://iprcs.org>, 2014-2020), and she has been the general chair organizing the European Signal Processing Conference (EUSIPCO) in 2021.

For this call, Prof. Dahyot is looking for projects involving graph learning (e.g. GNN) with applications in pattern recognition, visual scene understanding, GIS and computer vision.