

Post Title: Postdoctoral Research Fellow in Psychology of AI

Post Duration: 12 Months

Salary Scale: €42,783 - 49,177 (Appointment will be made on the IUA Post-Doctoral Researcher PD1 Pay Scale Level 2A at point 1-6, commensurate with experience)

Location: Trinity College Dublin

Reports to: Dr. Ashish Kumar Jha

Closing Date: September 30, 2023

Apply: <https://forms.gle/geY8NNFZw5Zys3hY7>

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 modelling, 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 €18.5 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.

As an ADAPT researcher you will have access to a network of 85 global experts and over 250 staff as well as a wide multi-disciplinary ecosystem across 8 leading Irish universities. We can influence and inform your work, share our networks and collaborate with you to increase your impact, and accelerate your career opportunities. Specifically, we offer:

- Exposure and free access within a multi-disciplinary ecosystem across 8 leading Irish universities
- Opportunity to build your profile at international conferences and global events
- Fast-track your career through formalised training & development, expert one-on-one supervision and exposure to top AI specialists

Research project/Challenge

The project is based in the Transparent Digital Governance Strand of ADAPT centre. We study the changing nature of technology, especially AI, and how it impacts society in terms of value and risk that it poses.

The current hiring is directed towards a project on psychology of Artificial Intelligence where we aim

to understand if psychological profiles of AI could be created that could help understand the outputs in a more deterministic manner. This would allow a higher level of trust in the AI tools, making the results more explainable.

The researcher would be working in the team on cutting edge theories and tools to write papers, develop psychometric tests, perform statistical analysis and learn about psychological aspects of AI. The researcher would be trained in various aspects of AI governance and management and publish papers in these topics to prepare for a career in either academics or industry with both sectors needing trained professionals in this domain.

About the role

- Have a high-valuable impact to the project through the implementation of technical and psychometric solutions to the project goals, in particular creating a psychological profile for AI to make the predictive models more deterministic
- Enhance your reputation through publishing in top-quality journals and conferences in collaboration with team members
- ADAPT's Research Development Team will help you develop your ideas into projects and establish a strong funding track record
- Participate alongside leading experts in exciting project activities and events to further research in explainable AI and governance of AI
- Contribute to the development of the next generation of thinkers and innovators through teaching and supervision activities
- You will have the opportunity to nationally and internationally present and represent the ground-breaking research carried out by you and the research team
- You will develop as a researcher through access to a wide training & development opportunity
- You will build a strong network through opportunities to liaise with internal and external stakeholders, including industry and academic partners/collaborators.
- Involvement with all aspects of the project lifecycle

Minimum qualifications:

PhD or equivalent in Information Systems, computer science, Statistics or aligned field

Preferred qualifications:

- *Ability to work with Python and R*
- *Experience working with selenium package to scrape websites*
- *Skills in text analytics and text mining in Python or R*

- *Good writing and presentation skills*
- *Interpersonal and team work skills*
- *Background and ability to work with survey data/psychometric methods would be added advantage*

Benefits

- Competitive salary
- Flexible working arrangements
- Computer and peripherals of your choice
- A fast-paced environment with impactful work
- Pension
- Day Nursery
- Travel Pass Scheme
- Bike to Work Scheme
- Employee Assistance Programme
- Sports Facilities
- 22 days of Annual Leave
- Paid Sick Leave
- Training & Development
- Staff Discounts

Application Process

Interested candidates can submit their application via the following link:
<https://forms.gle/geY8NNFZw5Zys3hY7>

Applications must include the following files as a single PDF:

- Cover Letter
 - A personal letter of motivation, indicating why you wish to conduct this research project offered by ADAPT, and why you expect that you will be able to complete the research successfully;
 - Please highlight your skills, past experience and the fit to the proposed project.
- CV
 - Detailed curriculum vitae including a list of papers presented, authored as well as works in progress.
 - Please include email id of two referees who can comment on your skills and research
- Two recent publications or writing sample

Informal enquiries about the role can also be sent to Dr. Ashish Kumar Jha, akjha@tcd.ie.

Diversity

ADAPT is committed to achieving better diversity and gender representation at all levels of the organisation, across leadership, academic, operations, research staff and studentship levels. ADAPT is committed to the continued development of employment policies, procedures and practices that promote gender equality. On that basis, we encourage and welcome talented people from all backgrounds to join ADAPT.

About the ADAPT Centre

ADAPT is the world-leading SFI research centre for AI Driven Digital Content Technology, coordinated by Trinity College Dublin and based within Dublin City University, University College Dublin, Technological University Dublin, Maynooth University, Munster Technological University, Technological University of the Shannon, and the University of Galway. ADAPT's research vision is to pioneer new forms of proactive, scalable, and integrated AI-driven Digital Content 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.

Our Research Vision

Governments and civil society are starting to recognise the need for urgent and concerted action to address the societal impact of the accelerating pace of digital content technologies and the AI techniques that underpin them. ADAPT provides an ambitious, ground-breaking, integrated research programme that assembles three interlocking Strands that together are capable of addressing this challenge. Each of these complementary and reinforcing research strands takes one of the different perspectives on the provision of personalised, immersive, multimodal digital engagement, i.e. the individual's experience and control of the engagement, the algorithms underlying digital content processing, and the balanced governance by enterprise and societal stakeholders.

Digitally Enhanced Engagement Strand

From the individual perspective, research within this Strand will deliver proactive agency techniques that sense, understand and proactively serve the needs of individual users to deliver relevant, contextualised and immersive multimodal experiences, which also offer them meaningful control over the machine agency delivering those experiences.

Digital Content Transformation Strand

From the algorithmic perspective, new machine learning techniques will both enable more users to engage meaningfully with the increasing volumes of content globally in a more measurably effective manner, while ensuring the widest linguistic and cultural inclusion. It will enhance effective, robust integrated machine learning algorithms needed to provide multimodal content experiences with new levels of accuracy, multilingualism and explainability.

Transparent Digital Governance Strand

From the enterprise and societal perspective, new structured knowledge frameworks and associated practices for AI data governance will be required to balance the needs and values of individuals, organisations and society when it comes to rich digital experiences. This requires the advancement of research in the areas of data ethics, data quality, data protection, data value, data integration, and multi-stakeholder governance models.



Engaging Content
Engaging People

A World
Leading SFI
Research
Centre



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