PhD Studentship in Deep learning for Sign Language Recognition and Translation

Principal Supervisor: Mohammed Hasanuzzaman (https://mohammedhasanuzzaman.github.io/)
Location: ADAPT Centre, Munster Technological University (MTU), Cork Campus, Ireland
Anticipated Start Date: As soon as possible
Closing Date: 25 February, 2023

We are seeking highly motivated and talented individuals to join our research team (Team) as PhD candidates. This is a full-time, fully-funded position that offers the opportunity to **make novel contributions at the interface between computer vision and neural machine translation with the primary goal of addressing automatic recognition and translation of Sign Language to spoken language.** The successful candidate will be hosted at ADAPT Centre (https://www.adaptcentre.ie/)@MTU, Ireland and closely work with a team of

Why ADAPT Centre?

- 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 €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 funded PhD 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:

1. Opportunity to build your profile at international conferences and global events.
2. A solid career pathway through formalised training & development, expert one-on-one supervision and exposure to top specialists.
3. A Fully funded, 4 year PhD postgraduate studentship which includes a tax-free stipend of approx. €18,500 per year for up to four years including EU tuition fees, research and equipment costs and all costs associated with training related covered.

Minimum qualifications

- Minimum first class honours Masters (exceptional candidate with Bachelor degree will also be considered) in either Computer Science, Computer Engineering, Electrical and Electronic Engineering or related disciplines with consistent academic records.
- Strong programming skills.
- Expertise/interest in Deep Learning/Natural Language Processing/Computer vision.
- Previous scientific publication experience preferred.
- Excellent written and verbal communication and interpersonal skills.

Application Process

Interested candidates can send an application with the following documents via (https://forms.gle/hepxs8kGvJWwFpGW8)

1. Detailed curriculum vitae, including – if applicable – relevant publications;
2. Transcripts of degrees,
3. The name and email contacts of two academic referees,
4. A cover letter/letter of introduction (max 2000 words). In the letter, applicants should include the following details:
    a. An explanation of your interest in the research to be conducted and why you believe they are suitable for the position.
    b. Details of your final year undergraduate project (if applicable)
    c. Details of your MSc project (if applicable)
    d. Details of any relevant modules previously taken, at undergraduate and/or Master level.
    e. Details of any relevant work experience (if applicable).

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 hosted by Trinity College Dublin. ADAPT's partner institutions include Dublin City University, University College Dublin, Technological University Dublin, Maynooth University, Munster Technological University, Athlone Institute of Technology, and the National University of Ireland 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.