

## PhD Advertisements

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CNGL PHD STUDENSHIPS AT DCU  
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### PhD\_TL\_DI\_PhD1:

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Machine Translation:

[PhD\_TL\_DI\_PhD1]: Improving a Multimodal Interaction System with machine translation technology to achieve fluent cross-lingual human-computer interaction through text, speech and visual methods.

### PhD\_SD\_PhD1:

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Information Retrieval:

[PhD\_SD\_1] Self-Managing Information Retrieval Technologies: Query, search technique and parameter selection in information retrieval applications

Ideal candidates for the PhD studentships should have:

- excellent computing and mathematical skills
- strong machine learning and statistical skills
- strong interest in basic research, applied research and showcasing
- research in demonstrator systems
- willingness to work as a team, but also be able to work on their initiative
- strong ability in independent and creative thinking
- strong problem-solving skills
- excellent communication abilities (including writing and presentation skills)
- proficiency in English
- a background in NLP, Computational Linguistics, Information

Retrieval, Information Extraction, Speech Technology or Machine

Translation as appropriate for the relevant position is an advantage

PhD positions are fully funded for 3 years. Stipend: Fees + €16,000p.a. living expenses (tax free)

**\*For informal enquiries please contact the relevant PI below\*:**

- Dr. Gareth Jones<[gjones@computing.dcu.ie](mailto:gjones@computing.dcu.ie)> [PhD\_SD\_1]

- Prof. Qun Liu<[qliu@computing.dcu.ie](mailto:qliu@computing.dcu.ie)> [PhD\_TLSD\_1]

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--\* CNGL PHD STUDENSHIPS AT TCD\*--

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#### **PA\_Ph4 Management of Mappings**

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Much of the content intelligence required to improve the user experience depends on knowledge of that user's task, preferences, prior knowledge and medium of access, i.e. their dimensions of adaptivity. The Personalisation and Adaptivity theme of CNGL

(<http://www.cngl.ie/research/research-areas/personalisation-and-adaptivity/>) is researching these dimensions and investigate how they can be combined with adaptive strategies to create better experiences that are tailored to each user's individual needs. This Phd will focus on supporting the mapping of metadata from content to domain models through the use of reusable mappings. The goal is to create relationships between content and the concepts in domain models in order to support the reuse of content at various different granularities. The process of creating these relationships, or mappings, will be explored to optimize the creation of reusable mappings, thus easing the mapping process.

**Post Status: 3 year PhD Studentships**

**Department: Centre for Next Generation Localisation Laboratories, Trinity College Dublin**

**Benefits: Payment of tax free stipend and academic fees**

**Closing date for applications: 28th February 2013**

**General enquires concerning these posts can be addressed to**

**[Dominic.Jones@scss.tcd.ie](mailto:Dominic.Jones@scss.tcd.ie)**

#### **Summary:**

The Centre for Next Generation Localisation ([www.cngl.ie](http://www.cngl.ie)) seeks to revolutionise the way people interact with content, systems and each other to achieve unprecedented levels of content access, process efficiency and user empowerment. Breakthroughs in the creation, processing, unification and integration of multilingual, multi-modal and multimedia content are needed to meet the needs of an increasingly mobile and multilingual society across global markets. CNGL will enable content to be created, discovered, translated and personalised, so as to efficiently and effectively deliver natural and engaging web-mediated interactions between users, organisations and communities regardless of language, device and preferences of the user.

CNGL is internationally renowned for its strong, strategic mix of leading researchers in language,

adaptive content, interaction and knowledge engineering technologies and its tight engagement with innovation-driven companies that work with content at a global level. CNGL has recently received further multi-million funding from Science Foundation Ireland. As a result Trinity College Dublin (TCD) is now offering 22 new PhD studentships in the areas of:

- Text Analytics for managing large scale multilingual corpora.
- Content-aware multilingual Search and Discovery technologies
- Adaptive context-aware search
- Intelligent slicing and adaptation of content
- Social-aware, affective content adaptation
- Constructing affective dialogue solutions
- Interoperability and analytics for intelligent content processing chains

### **Requirements:**

The successful candidate will have an excellent academic record (first class or II.1 primary degree or a postgraduate qualification, e.g. M.Sc.) in Computer Science, or a related discipline. They will be highly motivated, with strong written and oral communication skills and a demonstrated proficiency in software development. They must be eager to work in and learn from multi-disciplinary and multiorganisation teams. They should have English language certification if English is not their first language, the requirement being: IELTS: 7.0+, TOEFL iBT: 100+, TOEFL pBT: 600+, CEF: C1+, or equivalent.

### **Application Procedure:**

For further information and informal contact, please refer to the PhD topic details found at:

<http://www.scss.tcd.ie/Dominic.Jones/cngl2-phd-details.pdf>

Please directly contact the relevant supervisor, depending upon the position you're interested in, via email including:

- A targeted cover letter (600-1000 words) expressing your suitability for a position
- A complete CV

Please also copy Dominic Jones - [Dominic.Jones@scss.tcd.ie](mailto:Dominic.Jones@scss.tcd.ie)

Applicants may then be invited to apply via the TCD graduate studies admission system.

### **Further Information:**

#### **Centre for Next Generation Localisation**

CNGL is a €50M Academia-Industry partnership based in Ireland. It is unique internationally in addressing the integrated research and development of novel content, knowledge and language processing technologies for the global, multi-lingual web content and services supply chain. It is made up of over 100 researchers in labs integrated across Trinity College Dublin (TCD), Dublin City University (DCU), University College Dublin (UCD), University of Limerick (UL), as well as ten industrial partners, including SMEs, NGOs and multinationals such as Microsoft, Symantec, Intel and Welocalize. In addition to central funding from Science Foundation Ireland (SFI), CNGL has a wide portfolio of European FP7 projects and commercial projects. It therefore offers unique opportunities for international and industrial research collaboration at the highest level in areas of language technology, multi-lingual web and adaptive, personalised content. CNGL provides a world class collaborative research and innovation environment. It provides: world-class PhD supervision by integrated teams of leading academics; an experienced and supportive lab community of postdoctoral researchers and research programmers; excellent collaboration and computing facilities; wide ranging skills training opportunities; a dedicated management and administration team and an active commercialisation development pipeline.

#### **Trinity College Dublin**

Founded in 1592, Trinity College Dublin is the oldest university in Ireland and one of the oldest

universities of Western Europe. On today's campus, state-of-the-art libraries, laboratories and IT facilities, stand alongside historic buildings on a city-centre 47-acre campus. Based in the heart of Dublin, TCD offers an exceptional working and social environment that attracts students and researchers from around the world. TCD's research impact is currently ranked 44th in the World by the Times Higher Education Ranking of World Universities and 10th in Europe by the Leiden University Ranking of World Universities based on research performance. As Ireland's premier university, the pursuit of excellence through research and scholarship is at the core of a Trinity education. TCD has an outstanding record of publications in high-impact journals, and a track record in winning research funding which is among the best in the country.

### **Equal Opportunities Policy**

Trinity College Dublin is an equal opportunities employer and is committed to the employment policies, procedures and practices which do not discriminate on grounds such as gender, marital status, family status, age, disability, race, religious belief, sexual orientation or membership of the travelling community. See also: [https://www.tcd.ie/Graduate\\_Studies/Research2012.pdf](https://www.tcd.ie/Graduate_Studies/Research2012.pdf)