

ADAPT Undergraduate Internship Programme 2019

PROJECT DESCRIPTION

Institution/Team:	ADAPT Theme C (Personalising the User Experience), Trinity College Dublin	
Project Title:	Personalised Online Learning Environment	
Suitable for students who are studying in the following areas:	Adaptive web, Web technologies, Databases, User Interface and User Interaction Design Two internships are available.	
Skills needed:	Strong programming skills, JavaScript, databases	
Project Description:	<p>The ADAPT Personalising the User Experience theme are planning to develop an online Personalised Learning Environment (PLE) (a redevelopment of the existing AMAS system) using modern web technologies, combined with new research directions, such as: Open and Negotiated Learner Modelling, Learning Analytics, and user dialogue with Machine Learning.</p> <p>The learning environment will be used by almost 200 students annually who are enrolled in the Information Management II module in Trinity College Dublin. This module is available to both Computer Science and Computer engineering students as part of their degree program. The environment will be used by the students to learn database programming through several study topics and related tasks, such as building databases.</p> <p>Most of the study content already exists and will remain unchanged, however, new features will be developed as part of this project to support student engagement with their online learning.</p>	
The Role of the student & benefits gained from participation in this project:¹	<p>The student will be required to design and develop a new online Personalised Learning Environment. The skills and expertise the student would acquire from this internship will include:</p> <ul style="list-style-type: none"> • Machine Learning • Dialogue Systems • JavaScript front-end and back-end programming • Databases • User Interface and User Interaction Design 	
Who will be working with you?	The undergraduate student will be working closely with Dr. Bilal Yousuf, a postdoc in the group. S/he will also have the support of Prof. Seamus Lawless and Prof. Vincent Wade, who lecture the module in which the online learning environment is integrated. The student will participate in all our project meetings during his/her time with us.	
Short description of the group:	The Personalising the User Experience theme consists of academics, post-docs and PhD students. Prof Owen Conlan is the team leader, overseeing a group of 4 Principle Investigators, 4 post-docs, and 9 PhD students	
Recommended Reading Material:	http://www.doiserbia.nb.rs/img/doi/1820-0214/2014/1820-02141400012S.pdf https://ieeexplore.ieee.org/document/7265345	
Other information:		
For further details on this project please contact:	Name: Phone: E-Mail: Website:	Bilal Yousuf 01 8964993 Bilal.yousuf@adaptcentre.ie

¹ This is an initial description of the role of the student and it is liable to change following discussions between the investigators and the student.