

Research Internship Application Form

Graduate School of Natural Sciences

Please fill in this form and send it via email to coordinator-ai-master@uu.nl.

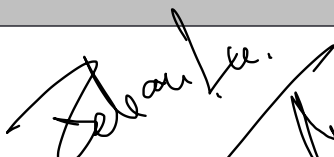
Student	
Name of MSc programme	Artificial Intelligence
First and last name of student	Zehao Lu
Email address	com3dian@outlook.com
Student number	2736888
Project supervisor	
Name and title (must be a Utrecht University staff member)	Shihan.Wang, Assistant Professor
Faculty, department and Research group (chair)	Science Information and computing sciences Intelligent Software Systems Intelligent Systems
Email address	s.wang2@uu.nl
Daily supervisor	
Fill out this section only if the project supervisor is not the daily supervisor!	
Name and title	NA
Affiliation	NA
Address	NA
Telephone number	NA
Email address	NA
Research internship	
Title	Opinion Leader Mining via Graph Representation Learning
Location	On campus

Course code	INFOMRIAI (7.5 EC)
Number of credits	7.5
Project starting date	18/11/2021
Ending date	14/01/2022
Short description of the project, including aims	<p>Graph representation learning involves projecting nodes and edges of a given graph or network into an n-dimensional vector space in which neighbouring nodes are placed in close proximity. This representation allows discovering hidden relationships/edges as well as communities (cluster of nodes) among others. With the ongoing Corona pandemic, people share their opinions on social media platforms. We have gathered a large collection of tweets (from Twitter) that have Coronavirus tags since February 2020. These data can be modelled as a network/graph (homogeneous or heterogeneous) which in turn is used as an input to an embedding model in order to derive interesting relations, users as well as communities.</p> <p>In this research project, we plan to integrate the graph representation learning method, with our algorithm to improve the learning efficiency. The goal of this project includes:</p> <ol style="list-style-type: none"> 1. to model the Coronavirus tweet data as a graph 2. to use representation learning to find relationships between Twitter users, tweets, etc 3. to identify users playing an essential role in the discussion of topics such as mask-wearing, lock-down, etc
Agreements between student and supervisors	
Number of hours available for supervision	4 hours
Planning/timing of the supervision (e.g. 'weekly meetings')	Weekly meetings, teams chats.
Agreed student work load (e.g. full time, 4 days/week, etc.)	3 days/week
Other activities agreed upon	
Copyright	
By signing this document, the student declares to transfer the copyright of any and all products, including the tangible and intellectual products, of the research project to Utrecht University, if	

the research project is a Utrecht University-internal project. For research projects outside of Utrecht University the copyright of any and all products, including the tangible and intellectual products, of the research project are specified in the Work Placement Agreement. In all cases, the rights of the student by scientific standards to be a co-author of publications or to be otherwise acknowledged are still recognized. The student is allowed and must upload his final assessed thesis to the university publication archive IGTUR. At a later stage, the thesis may be made public via IGTUR, or its access may be restricted temporarily or indefinitely.

Signatures

Student signature and date


Nov. 17.

Project supervisor + examiner
signature and date