

YICHEN PAN

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EDUCATION

The University of Nottingham Ningbo China (UNNC) *Aug. 2013 - Jul. 2017*
BSc Hons Computer Science
Overall GPA: 4.0/4.0
Rank: Top 1% (1/46)
Thesis: *A Deep Learning Approach to Image-based Group-level Emotion Analysis*

PUBLICATION

Towey D., **Pan Y.**, Qu Y. *Students as Partners in a Multi-media Note-taking App Development: Best Practices*. International Conference on Software Engineering (ICSE), 2017

Fu X., **Pan Y.**, Chng E., Aickelin Uwe. (under review). *Learning to detect redundancies with word mover's distance based on distributed representations*.

Fu X., **Pan Y.**, Chng E., Aickelin Uwe. (in progress). *Improving Redundancies Detection through Character-level Convolutional Neural Network*.

RESEARCH EXPERIENCE

A Deep Learning Approach to Image-based Group-level Emotion Analysis *Sep. 2016 - Present*
Individual thesis

- Adopted Deep Learning techniques to realize effective image-based group-level emotion analysis.

Redundancy Detection Based on Word Embeddings *Oct. 2015 - Present*
Undergraduate Researcher

- Proposed a novel redundant event filtering system based on the dense word embedding scheme (word2vec) incorporated with the distributed word movers distance metric.
- Prepared a journal paper for submission.

Twitter Sentiment Analysis *May. 2015 - Aug. 2015*
Research Assistant *Big Data and Visual Analytics Lab, UNNC*

- Project aims at building a sentiment classifier on tweets and visualizing the fluctuation of citizens moods using mapping techniques.
- Presented a methodological framework to collect, pre-process, analyse and map citizen sentiment from Twitter.
- Proposed a multinomial Naive Bayes classifier with several emoji-related features, which outperforms the top system in the task of Sentiment Analysis in Twitter in SemEval-2013 in terms of averaged F scores.

INDUSTRY EXPERIENCE

Alibaba Group *Jun. 2016 - Sep. 2016*
Algorithm Engineer *Hangzhou, Zhejiang*

- Developed an automatic mobile-based speaker verification system based on acoustic modeling.

- Under the funding from GNomeMagic Lab, designed an artificial intelligence robot which is capable of face recognition, access system control, light control and human interaction.

LEADERSHIP EXPERIENCE

QuickNote

Project Leader, Full-stack Developer

Oct. 2015 - Present

<http://quicknote.org>

- An initiative open-sourced project aims at building a scientific note-taking application which highly supports multimedia and allows innovations in teaching and learning.
- Built a university ranged but topic specific knowledge database.
- Collaborated with digital media research team to analyze behaviours of users using collected metadata within the app.
- Recognized at the provincial level as a Zhejiang Provincial Higher Education T&L Development Scheme Project.

Volunteer Recruitment and Management Platform

Project Leader, Full-stack Developer

May. 2016 - Present

- Built a charity system for recruiting and managing volunteers.
- Developed new digital approaches that can transform the impact of volunteering.

Learning Community Fora

Representative of School of Computer Science

May. 2014 - May. 2015

UNNC

- Served as a voluntary teaching assistant.
- Held meetings with the faculty and improved academic teaching and learning.

Student Society Center

Director of the Secretariat Department

May. 2014 - May. 2015

UNNC

- Regulated and supervised more than 80 societies and organizations at campus.
- Organized and directed series of university level activities.

SELECTED HONORS

Best Student of the Year , The University of Nottingham (Best studentA in each department)	<i>Dec. 2016</i>
President's Scholarship , The University of Nottingham (Top 1%)	<i>Dec. 2016</i>
China National Scholarship , Ministry of Education of The People's Republic of China	<i>Nov., 2016</i>
Dream Scholarship , The University of Nottingham (Top 1%)	<i>Nov., 2016</i>
The 2016 ACM-ICPC Asia Regional Contest Bronze Award ,	<i>Nov., 2016</i>
Outstanding Student , The University of Nottingham Ningbo China (Top 1%)	<i>Mar. 2016</i>
Provost's Scholarship , The University of Nottingham (Top 1.5%)	<i>Dec. 2015</i>
Outstanding Director of Organization , The University of Nottingham (Top 1%)	<i>May. 2015</i>
Dean's Scholarship , The University of Nottingham (Top 10%)	<i>Dec. 2014</i>

PRESENTATIONS

Technological Advances in Digital Education

Speaker

Sep. 2, 2016

UNNC Teaching & Learning Conference

- Introduced QuickNote to be integrated into daily teaching and learning at the university.

TECHNICAL STRENGTHS

Computer Languages

Python, C/C++, Java, Bash, Matlab, MEAN Stack

Library

Scikit-learn, OpenCV, Keras, TensorFlow, Kaldi

Databases

MySQL, MongoDB