

YICHEN PAN

(412) 616-6850 ◇ panatopos@cmu.edu ◇ <http://panatopos.com>

EDUCATION

Carnegie Mellon University - Information Networking Institute

Master of Science in Information Networking

GPA: N.A.

Relevant courses: Computer Systems (15513), Machine Learning (10601), Search Engines (11642)

Pittsburgh, PA

Expected May 2019

The University of Nottingham Ningbo China

BSc Hons Computer Science (First Class)

GPA: 4.0/4.0 (1/46)

Ningbo, China

Aug. 2013 - Jul. 2017

INDUSTRY EXPERIENCE

Alibaba Group

Algorithm Engineer Intern

Jun.-Sep. 2016

Hangzhou, China

- Developed an automatic mobile-based speaker verification system based on acoustic modeling.
- Implemented and compared several state-of-art approaches and models, such as GMM-UBM, I-vector and JFA to realize speaker verification tasks in practice based on Kaldi framework.
- Designed an intelligent robot which is capable of face recognition, access system control, light control and human interaction, with the funding from GNomeMagic Lab based on Raspberry Pi, Open CV and Qt.
- Won the Best Project Award in 2016 Summer Internship at Taobao.

PROJECTS/LEADERSHIP EXPERIENCE

QuickNote

Project Leader, Full-stack Developer

Oct. 2015 - Present

<http://quicknote.org>

- Designed a scientific cross-platform note-taking application which highly supports multimedia based on **MEAN stack** and **node-webkit** technique.
- Led the development team to complete a full cycle of the software engineering process.
- Deployed at the University of Nottingham as Open Education Resource, and used by the Digital Media Research Team.
- Recognized at the provincial level in China as a Zhejiang Provincial Higher Education T&L Development Scheme Project.

Feature Extraction via Random Recurrent Deep Ensembles and its Application in Group-level Happiness Estimation

Undergraduate thesis

Sep. 2016 - May. 2017

<https://github.com/PAN001/GREP>

- Designed a novel ensemble framework (RRDE) to extract highly discriminative feature representation of image in **Python Tensorflow and Keras framework**, and applied RRDE for group-level happiness intensity prediction in wild.
- Best result yielded a 0.55 root-mean-square error (RMSE) on validation set of HAPPEI dataset, significantly better than the baseline of 0.78.

Redundancy Detection Based on Word Embeddings

Research Assistant

Oct. 2015 - Sep. 2016

<http://panatopos.com/#redundancydetection>

- Proposed a novel redundant event filtering system based on the dense word embedding scheme (word2vec) incorporated with the distributed word movers distance metric in Python.

SELECTED HONORS/AWARDS

President Award for Outstanding Graduate, The University of Nottingham (1 in 5)

Jun. 2017

SIGSOFT CAPS-UG Award, ACM SIGSOFT

Mar. 2017

Best Student of the Year, The University of Nottingham (Best student in each department)

Dec. 2016

President's Scholarship, The University of Nottingham (Top 1%)

Dec. 2016

China National Scholarship, Ministry of Education of The People's Republic of China

Nov., 2016

Provost's Scholarship, The University of Nottingham (Top 1.5%)

Dec. 2015

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

SKILLS

Computer Languages

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

Library

Scikit-learn, OpenCV, Keras, TensorFlow, Kaldi

Databases

MySQL, MongoDB