YICHEN PAN

(412) 616-6850 ◇ panatopos@cmu.edu ◇ http://panatopos.com ◇ https://linkedin.com/in/yichenpan/

EDUCATION

Carnegie Mellon University - Information Networking Institute *Pittsburgh, PA*
Master of Science in Information Networking *Expected May 2019*
GPA: N.A.
Relevant courses: Computer Systems (15513), Deep Learning (11785), Search Engines (11642)

The University of Nottingham Ningbo China *Ningbo, China*
BSc Hons Computer Science (First Class) *Aug. 2013 - Jul. 2017*
GPA: 4.0/4.0 (1/46)

INDUSTRY EXPERIENCE

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

- Developed an automatic mobile-based speaker verification system based on acoustic modeling.
- Implemented and compared several state-of-art **machine learning** approaches, including GMM-UBM, I-vector, JFA and **deep neural networks** 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 Oct. 2015 - Present
Project Leader, Full-stack Developer *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 Sep. 2016 - May. 2017
Undergraduate thesis *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 Oct. 2015 - Sep. 2016
Research Assistant *http://panatopos.com/homepage.html#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: 334-335

Tang S., **Pan Y.** *Feature Extraction via Recurrent Random Deep Ensembles and its Application in Group-level Happiness Estimation.* CoRR abs/1707.09871 (2017)

SKILLS

Computer Languages	Python, C/C++, Java, Bash, Matlab, MEAN Stack
Library	Scikit-learn, OpenCV, Keras, TensorFlow, Kaldi
Databases	MySQL, MongoDB