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), Machine Learning (10601), 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 several state-of-art **machine learning** approaches, including GMM-UBM, I-vector, JFA based on Kaldi framework.
- Proposed optimization based on DTW and highly representative feature d-vector from **DNN**.
- Designed an intelligent robot 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. (**Best project** in 2016 Summer Hackathon at Taobao)

PROJECTS/LEADERSHIP EXPERIENCE

QuickNote Oct. 2015 - Present
Project Leader, Full-stack Developer *http://quicknote.org*

- Self-initiated **open-source** project.
- Designed a scientific cross-platform note-taking application which highly supports multimedia based on **MEAN stack** and **node-webkit** technique.
- Fully in charge of both front-end and back-end and led the 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 for data mining.

Redundancy Detection Based on Word Embeddings Oct. 2015 - Sep. 2016
NVIDIA Joint-Lab: 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**.

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 CNN and LSTM based ensemble framework (RRDE) to extract highly discriminative feature representation of image in **Python Tensorflow and Keras**, 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, close to first place in 2016 EmotiW competition.

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, Haskell
Tools	Unix, Scikit-learn, OpenCV, Keras, TensorFlow, Kaldi
Databases	MySQL, MongoDB