KUAN-YU CHEN

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EDUCATION

September 2016 University of Michigan, Ann Arbor, Michigan, United States

April 2018 Master of Science

Electrical and Computer Engineering(Machine Learning Track)

GPA: 3.4 / 4.0

September 2011 National Taiwan University (NTU), Taipei, Taiwan

- June 2015 Bachelor of Science

Engineering Science and Ocean Engineering (ESOE)

Major GPA: 4.03/4.3, Overall GPA: 3.71/4.3

RESEARCH EXPERIENCE

September 2016

GEMS: Graph Exploration and Mining at Scale Lab, UMich

- Present

- Topic: Hash-based Alignment for Multiple Graphs
- Design an algorithm that utilize locality sensitive hashing to find potential matching when given multiple graphs
- Explore through different attributes, hashing settings and datasets to align graphs both effectively and efficiently
- Improve our algorithm and combine with existing alignment algorithms to guarantee performance on larger graphs

September 2015

Mining Large-Scale Graph Data Course, UMich

- February 2016

- Topic: Anomaly Detection via Transfer Learning
- Processed large temporary YouTube Datasets, extracted various attributes and constructed graphs using Python
- Apply machine learning algorithms and learn labels for each node
- Find potential anomalies using mismatches labels and compare with baseline anomaly detection algorithm

WORK EXPERIENCE

September 2015

Teaching Assistant, NTU

- August 2016

• Taught and assisted in Engineering Mathematic, Linear Algebra, Signals and Systems, Fundamental Engineering Laboratory in a class of 50

July 2014 – Intern at AIRTEK, New Taipei

September 2014 Research and Development Department

- Constructed a communication system for the controllers and test the stability of the system
- Built user interfaces for the products with software provided by the company

AWARDS AND ACHIEVEMENTS

Fall 2014 Presidential Award

• Awarded to students ranking top 5% in department

January 2014 Bicycle Tour of Taiwan

EXTRACURRICULAR ACTIVITIES

July 2012 – The ESOE Student Association

August 2014
Activities Coordinator of NTU ESOE Summer Camp, 2014

• Creative Director of the NTU ESOE Orientation Camp, 2013

• Team Leader in the NTU ESOE Summer Camp, 2012

September 2011 NTU Pop Dance Club

June 2013Public relations

April 2015 – Devoted to working out four times a week

Present

SKILLS

Language Fluent in Mandarin

Intermediate in English

Technical Skills Data Mining, Machine Learning (clustering, regression, clustering,

anomaly detection, feature engineering), Probability, Database

Management System, Operating System

Programming: Familiar with Python (scikit-learn, numpy, scipy, pandas) and

Oracle SQL. Experienced with C++, JAVA

Software MATLAB, Hadoop (Mapreduce in Python), Microsoft Excel, LaTex