

KUAN-YU (David) CHEN

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EDUCATION

September 2016 – April 2018 University of Michigan, Ann Arbor, Michigan, United States
Master of Science
Electrical and Computer Engineering(Machine Learning Track)
GPA: 3.45 / 4.0

September 2011 – June 2015 National Taiwan University (NTU), Taipei, Taiwan
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 – April 2017 GEMS: Graph Exploration and Mining at Scale Lab, UMich
• 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 – February 2016 Mining Large-Scale Graph Data Course, UMich
• 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

May 2017 – August 2017 Software Engineer Internship, Expedia Inc., Chicago
Data Engineering Team
• Analyzed data stored on AWS with Hive queries on Qubole
• Wrote MapReduce code in Python with logic incorporating

	various input format to extract all Transaction information
	<ul style="list-style-type: none"> • Do testing on different environments (Include running MapReduce job through Hadoop on AWS)
September 2015	Teaching Assistant, NTU
– August 2016	<ul style="list-style-type: none"> • Taught and assisted in Engineering Mathematic, Linear Algebra, Signals and Systems, Fundamental Engineering Laboratory in a class of 50

AWARDS AND ACHIEVEMENTS

Fall 2014	Presidential Award
	<ul style="list-style-type: none"> • Awarded to students ranking top 5% in department
January 2014	Bicycle Tour of Taiwan

EXTRACURRICULAR ACTIVITIES

July 2012 –	The ESOE Student Association
August 2014	<ul style="list-style-type: none"> • Activities Coordinator of NTU ESOE Summer Camp, 2014 • Creative Director of the NTU ESOE Orientation Camp, 2013
September 2011	NTU Pop Dance Club
– June 2013	<ul style="list-style-type: none"> • Public 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, regex) and Relational Database (Oracle SQL, Hive, Teradata). Experienced with C++, JAVA
Software	Hadoop (Mapreduce in Python), Qubole, MATLAB, Microsoft Excel, LaTeX