

Yen-Teh Liu

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<https://yeli7289.github.io/portfolio>

EDUCATION

University of Colorado at Boulder, Boulder, Colorado (**GPA: 3.86**)

Aug 2015-May 2017

- Master of Science in Computer Science, specialize in Data Science and Engineering

National Chiao Tung University, Hsinchu, Taiwan

Sep 2009-June 2013

- Bachelor of Science in ElectroPhysics

SKILL

Programming Languages: Python, Java, C, JavaScript, HTML, CSS, PHP, MySQL

Tools/Framework: Matlab, Github, React JS, Firebase, Flask, OpenGL, Keras, Scikit-learn, Pandas, Microsoft CNTK

Relevant Skills: Machine Learning, Deep Learning, Data Science, Speech Processing, Digital Signal Processing, Natural Language Processing, Full Stack Web Development, UI Design and Development.

WORK EXPERIENCE

Qualcomm, Auburn Hills, Michigan

May 2016-Aug 2016

Engineering Intern with Speech and Deep learning specializations

- Design Deep Neural Network and Recurrent Neural Network algorithms for wind noise reduction on automobile.
- Built Deep learning training framework in Microsoft Computational Network Toolkit (CNTK) with large dataset.
- Implement GPU parallel computing in CNTK to expedite the training process.
- Developed speech enhancement system from decoding to encoding from scratch.

Research Center for Information Technology Innovation, Academia Sinica, Taipei, Taiwan

Sep 2014-June 2015

Full time research assistant

- Designed Non-Negative Matrix Factorization hearing-aids algorithm with 12% consonant recognition improvement.
- Implemented Deep Neural Network system for Chinese syllable classification.

Microsoft, Taipei, Taiwan

July 2012-June 2013

Student Intern

- Instructed local sales person on Office, Windows 8 and Xbox.

PROJECT

FooBer, Food Delivery Matching Web App (JavaScript, React JS. Firebase as real-time backend)

- Real-time food delivery matching service that matches the restaurants with delivery requests and service providers.

WeTravel, Collaborative Travel Schedule Web App (JavaScript, React JS. Firebase as real-time backend)

- Real-time travel scheduling app that provide users to add schedules, draw routes on the map and chat at the same time.

My Quiz, Quiz taking platform (JavaScript. PHP as backend language with MySQL database)

- Online quiz taking web application for students to take the quiz and teacher to make the quiz.

Music Genre Classification (Matlab)

- Constructed 6 genres music classification system with one-to-one multiclass Support Vector Machine (SVM).

Natural Language Processing Tasks (Python)

- Constructed deceptive online hotel reviews identification system.
- Implement Viterbi algorithm on Name Entity Recognition task on Biomedical Journal.

SELECTED PUBLICATION

Yen-Teh Liu, Ronald Y. Chang, Yu Tsao, "A Deep Neural Network Approach to Mandarin Consonant/Vowel separation", IEEE International Conference on Consumer Electronics—Taiwan, 2015.

Yen-Teh Liu, Ronald Y. Chang, Yu Tsao, "Non-Negative Matrix Factorization-based Frequency Lowering Technology for Mandarin Speaking Hearing Aid Users", IEEE International Conference on Acoustics, Speech and Signal Processing, 2016.

COURSES

Search Engine and Analysis for High Dimensional Dataset, Natural Language Processing, Machine Learning, Objected Oriented Analysis and Design, User-Centered Design and Development, Computer Graphics, Digital Audio Signal Synthesis and Analysis.