

YI-EN TSAI

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OBJECTIVE

To obtain a position in a challenging and rewarding technical environment that will allow me to enhance and develop my skills in data collection and analysis.

EDUCATION

National Chiao Tung University

Hsinchu, Taiwan

Master of Science in Mathematical Modeling and Scientific Computing

February 2016

- **Master Thesis:** "Stochastic Newton Method for Large Scale Nonlinear Support Vector Machine" .
- **Relevant Coursework:** Data Mining, Machine Learning (self-study), Optimization, Algorithms, Scientific Computing.

National Taiwan Normal University

Taipei, Taiwan

Bachelors of Science in Mathematics, Minor in Physics and Mathematics Education

July 2013

- **Academics:** 4.0/ 4.0 GPA, Academic Excellence Award (7 semesters) , Academia Sinica Hung-Ching Chou Scholarship Recipient.
- **Relevant Coursework:** Numerical Analysis, Linear Programming, Optimization, Multivariate Analysis.

EXPERIENCE & LEADERSHIP

National Taiwan University of Science and Technology (Laboratory of Data Science and Machine Intelligence)

Taipei, Taiwan

Research Assistant

September 2013 – January 2016

- Conducted research on stochastic optimization and support vector machines for large-scale learning problem.
- Proposed new algorithmic framework and programmed in MATLAB.
- Will submit research paper to conference on machine learning with advisor.

Physic Club

Taipei, Taiwan

Leader

May 2011 – September 2011

- Led a team of 5 students to attend 2011 Taiwan College-Student Physicists' Tournament hold by Department of Physics in National Taiwan Normal University.
- Collaborated with teammates to do research on the scientific problems proposed by the tournament and design, conduct several experiments to find the solution.
- Summarized results and submitted presentation in English to other teams in the tournament.

SKILLS:

Computer skills:

- Working knowledge of mathematical programs, graphing and data analysis using MATLAB.
- Working knowledge of document preparation using LATEX and MS Office.
- Understanding knowledge of statistical analysis and data analysis such as R and C++.
- Basic knowledge of data analysis such as Python and SQL.

Language: Fluent in Mandarin, limited working proficiency in English.