Wen-Kai Chung

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Education

National Taiwan University (NTU)   **Taiwan**

Major: Bachelor of Science, Department of Mathematics   *2010–2014*
Double Major: Bachelor of Arts in Economics, Department of Economics   *2010–2014*

- Overall GPA 1.8 (Taiwan 3.53/4.3)[1]
- Economics GPA 1.49 (Taiwan: 3.83/4.3)[2]
- Presidential Awards Twice (Top 3 in semester)
- Overall Rank 10th/83

Honors

Chien Shih-Liang Scholarship, NTU   *May 2014*

- I am awarded one out of two from College of Science around 3000 people.

Summer School Program Subsidy, Institute of Math, Academia Sinica   *Aug 2013*

- I am awarded one out of fifteen people among admitted applicants.[3]

Research and Working Experiences

Institute of Information Science, Academia Sinica   **Taiwan**

Research Assistant, Natural Language Processing and Sentiment Analysis Lab   *Feb 2018–Jan 2019*

- Trained a deep neural network to identify company aliases and abbreviation names in news.
- Trained a model to predict the relationship (upstream/downstream/competitor) between two given companies by constructing multi-relation knowledge graph of words from news data (Publication [a]).
- Supervisor: Associate Research Fellow Lun-Wei Ku, PhD

Department of Economics, NTU   **Taiwan**

Research Assistant, Coordination in Social Network Project   *Jun 2016–Aug 2017*

- Performed literature review related to Microeconomics and Game theory.
- Disproved some claims and gave insight when modeling a infinite repeated k-threshold game that tries to capture strong discontents from citizens through rebel information transmission of a regime.
- Supervisor: Assistant Professor Chun-Ting Chen, PhD

Treasury Marketing Unit, Taichung Commercial Bank   **Taiwan**

Product Manager   *Feb 2016–May 2016*

- Predicted foreign market by compiling 100 news, economic indices and 7 major currencies per day.
- Calculated the amount of financial derivatives by Excel VBA, which improved efficiency of daily work.

Undergraduate Experiences

Institute of Mathematics, Academia Sinica   **Taiwan**

Teaching Assistant, Summer School Program of Mathematical Finance and Technology   *Jul 2014, 2016, 2017*

- Proved a property of a financial derivative by using MATLAB[4].
- Supervisor: Associate Professor Ju-Yi Yen, PhD

Taoyuan Senior High School   **Taiwan**

Math Lecturer, Taiwan Regions Math League (TRML) Competition   *Feb 2013–Aug 2013*

- Led a group of 15 students to be ranked local top 3 in TRML competition, which contains calculus, basic algebra and probability.

Publications

[a]. **Upstream, Downstream or Competitor? Detecting Company Relations for Commercial Activities**, Yi-Pei Chen*, Ting-Lun Hsu*, Wen-Kai Chung*, Shih-Chieh Dai, Lun-Wei Ku, *Human-Computer Interaction International Conference 2019: Business, Government and Organizations* (*equal contribution)

Skills

Programming: Python (PyTorch), Linux Bash, SQL, LaTeX, C++, STATA, MATLAB, Excel VBA
Languages: Mandarin Chinese (Native Fluency); English (CEFRL B2); German (CEFRL A2)

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[1] Taiwan GPA 3.53 is certified by my transcript. Bavarian formula is used for grade conversion.
[2] I calculated Economics GPA by only considering those courses with Course No. ECON, Acc and IB in my transcript.
[3] Please refer to section V in https://tinyurl.com/y93m3h92
[4] Approximation of a Financial Derivative's Expected Return (PDF file): http://tinyurl.com/y99x2hqx