

COLIN CLEVELAND

Rm.617 3-16-21, Yakuin, Fukuoka Shi Chuo Ku, Fukuoka Ken, 810-0022, Japan ◇ +81 9063147466
colin.cleveland.formal@gmail.com ◇ artermi.github.io

EDUCATION

National Taiwan University (NTU)

Sep. 2014 - Jun. 2019

B.S. in Computer Science and Information Engineering

- GPA in 4.3 scale (Overall/Last 60/Major) : 3.72/4.05/3.8

Minor in Economics and Mathematics

Research Interest: Algorithmic Game Theory, Graph Theory, and Network Security

HONORS & AWARDS

2018 Taipei City Lion Club Germ Scholarship

2017 National Science Council Undergraduate Student Research Grant

2014 National Taiwan University Hope Scholarship

RESEARCH EXPERIENCE

Research on Algorithmic Game Theory (Prof. Ho-Lin Chen)

National Taiwan University

Paper Surveying and Discussion

Jun. 2018 - present

- Reviewed papers of EC'18 (the 19th ACM conference on Economics and Computation) and WINE 2018 (The 14th Conference on Web and Internet Economics).
- Analysed time complexity of algorithms that find equilibria in Multi-Preference Stable Marriage Problems with high preference/agent ratio.

Lab of Algorithmic Research (Prof. Hsueh-I Lu)

National Taiwan University

Minimum Cut of Directed Planar Graphs

Feb 2018 – Aug. 2018

- Reviewed previous minimum cut algorithms and their proofs.
- Combined old algorithms to create new ones, and analysed the complexity of the new algorithms.

Network Security Lab (Prof. Hsu-Chun Hsiao)

National Taiwan University

The Vulnerabilities of OAuth in IoT devices

Feb. 2016 – Feb. 2018

- Analysed the OAuth standard, and reviewed previous works.
- Tested real world OAuth implementation by Facebook and Google.
- Modelled IoT devices in different situations, and discussed the possibility of threats.

RELEVANT COURSES

Algorithm	Algorithm Design and Analysis, Formal Languages and Automata Theory, Design Strategies for Computer Algorithms
	Number Theory, Generating Functions, Asymptotic Theory
Economics	Economics (I) (II), Microeconomics (I) (II), Macroeconomics (I) (II), Topics in Neuroeconomics, Statistics and Econometrics with Recitation (I) (II)
Mathematics	Cryptography, Abstract Algebra, Game Theory Analysis (Honour Program) (I)(II): Basic Topology, Differential Calculus, Integral, Differential Form, Measure Theory Probability (I)(II): Measure Theory, Law of Large Number, Central Limit Theorem, Martingale, Markov Chains, Ergodic Theorems, Brownian Motion

WORK EXPERIENCE

Business Strategy Department

Data Scientist

Fukuoka Bank, Japan

Dec. 2019 - present

- Analyse the financial market with PyTorch.
- Analyse the 2020 USA election.

Centre for Teaching and Learning Development

Student's Tutor

National Taiwan University, Taiwan

Oct. 2017 - Jun. 2018

- Worked as Programming and Economics tutor.
- Helped to build the old exams' solutions website.

Graduate Institute of Networking and Multimedia (INM)

Part-time worker

National Taiwan University, Taiwan

Nov. 2015 - Jun. 2019

- Worked as the webmaster of the INM web page.
- Repaired the computers and network in the INM office when they broke down.

SKILLS

Programming	C/C++, Java, Python, PyTorch
Math/Stats Softwar	R, Stata
Web	Flask with Python, JavaScript
Language	Mandarin Chinese (native), Taiwanese (native), English (IELTS:7(overall),L:7,R:8,W:6,S:6.5) French (Basic), Japanese (Basic)
Nationality	Taiwan