COLIN CLEVELAND

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EDUCATION

National Taiwan University (NTU) Sep. 2014 - present
B.S. in Computer Science and Information Engineering - Overall GPA: 3.63/4.3 (83%)
Minor in Economics and Mathematics

Research Interest: Algorithmic Game Theory, Graph Theory, andNetwork 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 EC18 (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 (*IN PROGRESS)

Algorithm	Data Structures and Algorithms, Algorithm Design and Analysis, Formal Languages and Automata Theory, Design Strategies for Computer Algorithms Mathematical Analysis of 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	Linear Algebra, Calculus (I)(II), Discrete Mathematics, Introduction to Cryptography, Applied Algebra (Abstract Algebra), Game Theory* Analysis (Honour Program) (I): Basic Topology, Differential Calculus, Integral, Measure Theory Probability (I)(II*): Measure Theory, Law of Large Number, Central Limit Theorem, Martingale

WORK EXPERIENCE

Centre for Teaching and Learning Development National Taiwan University, Taiwan
Students Tutor 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) National Taiwan University, Taiwan
Part-time worker Nov. 2015 - present

- 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
Math/Stats Softwar	R, Stata
Web	Flask with Python, JavaScript
Language	Mandarin Chinese (native), Taiwanese (native), English (IELTS:7(overall))
Test Score	GRE (Q/V/AWA): (167/151/3.0)