

Chia-Hao Chang

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OBJECTIVE	Pursue a Ph.D degree in the DICE.		
AREA OF INTEREST	Network Analysis, Applied Mathematics. Including: Network analysis, Decision making, Game theory, Applied probability, Optimization, Resource allocation.		
EDUCATION	<i>Bachelor of Science (B.S.)</i> , National Taiwan University (NTU), Taipei, Taiwan. Major: Electrical Engineering (EE), Sept. 2013- Jan. 2018. Minor: Physics (Phys), Sept. 2014- Jan. 2018.		
GPA	<i>Major (EE)</i> : 4.17/4.30 <i>Minor (Phys)</i> : 4.27/4.30 <i>Overall</i> : 4.16/4.30		
RESEARCH EXPERIENCE	<i>Applied Electromagnetic Laboratory (with Prof. Jean-Fu Kiang)</i> : Sept. 2015- Jan. 2018 - Topic: Wireless Communication: Cognitive Radio, Spectrum Access, Power Allocation, Game Theory, Markov Decision Process, MIMO. <ul style="list-style-type: none">• Developed a novel transmission scheme of a cognitive wireless-powered communication network.• Proposed a subproblem that efficiently solved the originally non-convex optimization problem and proved the relation between two problems.• Gave rigorous proofs to the lemmas and theorems proposed in the paper.		
COURSE PROJECT	<i>Quantum Physics Project</i> : Quantum Information Theory and its Applications Feb. 2016- June. 2016. <i>Quantum Physics Project</i> : Hydrodynamics Interpretation of Quantum Mechanics Oct. 2015- Jan. 2016.		
HONOR	<i>Presidential Award</i> : 3 times 2013, 2014, 2017. <ul style="list-style-type: none">• Awarded to students ranked within the top 5 % in each semester <i>High School Physics Contest Winner in Kaohsiung, Taiwan</i> : Oct., 2012 <ul style="list-style-type: none">• First prize and representative of Kaohsiung city. <i>Selection Test for International Physics Olympiad</i> : Second Round. Nov., 2012		
WORKING EXPERIENCE	<i>Teaching Assistant at NTU</i> : Volunteered-Service Learning Class, Sept. 2016- Jan. 2017. <i>Private Tutoring</i> : High School Mathematics and Physics, Sept. 2014- Jan. 2018.		

STANDARDIZED *GRE General Test:*

TEST SCORES Verbal: 150/170, Quantitative: 170/170, Analytical Writing: 3.0/6.0 May, 2017
TOEFL iBT:
Total: 102/120, Reading: 28, Listening: 29, Speaking: 20, Writing: 25 Sept., 2017

ACTIVITIES *Club Leader:* NTU Kind-Kids Club Feb. 2016- June 2016.
• Leader of a seventy-four person voluntary club.

Club Member: NTU Kind-Kids Club Sept. 2013- June. 2017.
• Weekly volunteered curricular service at Bethany Orphanage, Taipei, Taiwan.

Camp Activity Organizer: NTUEE Summer Camp Organizer July. 2014.
• Holded a summer camp dedicated for high school students to get to know electrical engineering.