

3541 N. Hills Drive #A
Austin, TX 78731

CHIA-HAO CHANG

(737) 224-0338

✉ chchangkh@utexas.edu

🌐 <https://chia-hao-chang.github.io>

EDUCATION

The University of Texas at Austin (UT Austin)	Austin, TX	Aug 2018 – present
--	-------------------	---------------------------

- **M.S. in Decision, Info. and Commun. Engr. (DICE), Electrical and Computer Engineering (ECE)** **GPA: 4.0/4.0**
- **Advisor:** Prof. John Hasenbein
- **Graduate Coursework:** Probability and Stochastic Processes, Large Scale Optimization, Linear Programming, Analysis and Design of Communication Networks, Game Theory

National Taiwan University (NTU)	Taipei, Taiwan	Sept 2013 – Jan 2018
---	-----------------------	-----------------------------

- **B.S. in Electrical Engineering (EE) with minor in Physics (Phys)** **GPA: 4.16/4.30**
- **NTU Presidential Award for 3 semesters:** Awarded to students ranked within the top 5% in each semester.
- **Relevant Courses:** Mathematical Analysis (I), Probability and Statistics, Calculus (I) and (II), Discrete Mathematics, Linear Algebra, Differential Equation, Signals and Systems, Principle of Communications

RESEARCH INTEREST

Applied Probability

- Stochastic Modeling
- Decision Making Under Uncertainty: Stochastic Control and Markov Decision Process

Game Theory

- Mechanism Design
- Strategic Decision Making

RESEARCH EXPERIENCE

Queueing Theory	with Prof. John Hasenbein	Jan 2019 – present
------------------------	----------------------------------	---------------------------

- Game-theoretic queueing models for liver transplantation

Wireless Communication	with Prof. Jean-Fu Kiang	Feb 2017 – Jan 2018
-------------------------------	---------------------------------	----------------------------

- 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.

Electromagnetics and Fluid Mechanics	with Prof. Jean-Fu Kiang	Sept 2015 – Jan 2017
---	---------------------------------	-----------------------------

- Implemented MATLAB programs to solve Navier-Stokes Equations and simulated the hypersonic regime of aerodynamics.

HONORS

High School Physics Contest	Kaohsiung, Taiwan	Oct 2012
------------------------------------	--------------------------	-----------------

Winner

- First prize and representative of Kaohsiung City.

Selection Test for International	Taiwan	Nov 2012
---	---------------	-----------------

Physics Olympiad

- Second round

TEACHING EXPERIENCE

Teaching Assistant	NTU	Sept 2016 – Jan 2017
---------------------------	------------	-----------------------------

- Volunteered-Service Learning Class

EMPLOYMENT

Mandatory Military Service <ul style="list-style-type: none">Private, Taiwan Army.	Tainan, Taiwan	Feb 2018 – June 2018
Private Tutoring <ul style="list-style-type: none">High school physics and mathematics.	Taipei, Taiwan	Sept 2014 – Jan 2018

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

Attendee <ul style="list-style-type: none">Student attendee of Texas Wireless Summit held at UT Austin (Topic of the summit: AI and the Mobile Device).	Texas Wireless Summit	Nov 2018
Club Leader <ul style="list-style-type: none">Leader of a seventy-four person voluntary club.	NTU Kind-kids Club	Feb 2016 – June 2016
Club Member <ul style="list-style-type: none">Weekly volunteered curricular service at Bethany Orphanage, Taipei, Taiwan.	NTU Kind-Kidds Club	Sept 2013 – June 2017
Camp Activity Organizer <ul style="list-style-type: none">Held a summer camp dedicated for high school students to get to know electrical engineering.	NTUEE Summer Camp	July 2014

TECHNICAL SKILLS

Programming Languages

- MATLAB, Python, \LaTeX

Spoken Languages

- Chinese(native), Taiwanese(native), English(fluent)