CHIA-HAO CHANG

(737) 224-0338 □ chchangkh@utexas.edu ttps://chia-hao-chang.github.io

EDUCATION

The University of Texas at Austin Austin, TX (UT Austin)

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

with Prof. Jean-Fu Kiang

Sept 2015 - Jan 2017

Mechanics

• 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

Second round

Physics Olympiad

TEACHING EXPERIENCE

Teaching Assistant

NTU

Sept 2016 - Jan 2017

• Volunteered-Service Learning Class

EMPLOYMENT

Mandatory Military Service Tainan, Taiwan Feb 2018 – June 2018

• Private, Taiwan Army.

Private Tutoring Taipei, Taiwan Sept 2014 – Jan 2018

• High school physics and mathematics.

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

Attendee Texas Wireless Summit Nov 2018

• Student attendee of Texas Wireless Summit held at UT Austin (Topic of the summit: Al and the Mobile Device).

Club Leader NTU Kind-kids Club Feb 2016 – June 2016

• Leader of a seventy-four person voluntary club.

Club Member NTU Kind-Kidds Club Sept 2013 – June 2017

• Weekly volunteered curricular service at Bethany Orphanage, Taipei, Taiwan.

Camp Activity Organizer NTUEE Summer Camp July 2014

• Held a summer camp dedicated for high school students to get to know electrical engineering.

TECHNICAL SKILLS

Programming Languages

• MATLAB, Python, ETFX

Spoken Languages

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