KENNY CHANG

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EDUCATION

B.S. Mathematics + M.S. Electrical Engineering, Stanford University (Spr 2018)

General Visiting Student in Electronic Engineering, Tsinghua University Fall 2016

High School Diploma, Fairmont Preparatory Academy Spr 2014

AWARDS

Honor Roll, William Lowell Putnam Mathematical Competition Fall 2015
Ranked in the top 500 in nationwide intercollegiate math competition

EXPERIENCE

Engineering Policy Internship, Federal Communications Commission, Media Bureau Sum 2017
Final presentation to the Engineering Division concerning the effects of COFDM modulation on implementing the next-generation broadcast TV standard (ATSC 3.0)

Research Internship, Stanford Department of Electrical Engineering (PI: Ayfer Özgür) Sum 2016
Theoretical project examining the information theoretic constraints on wireless signaling under a stochastic or unreliable power source, as in an energy harvesting device

ML/Signal Processing Intern, SETI Institute Spr 2016
Used sophisticated machine learning to develop data mining algorithms for analyzing massive noisy and unstructured extraterrestrial signal data in a distributed setting

Research Internship, Stanford Department of Statistics (PI: Susan Holmes) Sum 2015
Developed a dynamic latent trait model to help explain patterns in microbiome data

STANDARDIZED TESTS

SAT CR: 800, M: 770, W: 760 / GRE Q: 168, V: 166 W: 5.0

WRITING SAMPLES

Energy-Harvesting Wireless Transmission over a Fast-Fading Channel [link]
Original research related to limitations on wireless transmission for energy-harvesting systems

Semidirect Products [link]
Writing in the Major (WiM) project modeling a chapter in an imaginary abstract algebra textbook

TECHNICAL SKILLS

Computer Languages: MATLAB ●●●, Python ●●●, R ●●●, C/C++ ●●○, Verilog ●○○, Java ●○○

Foreign Languages: Spanish ●●●●, Mandarin ●●●○, Cantonese ●●○○, Quechua ●○○○

Other: Unix shell, LaTeX, circuit and logic design, convex and linear optimization, Microsoft suite

KEY COURSEWORK

- Computer Networking
- Circuit Design and Analysis
- Stochastic Processes
- Wireless Information Theory
- Convex Optimization
- Statistical Inference
- Digital Signal Processing
- Functional Analysis
- Machine Learning

STUDENT ORGANIZATIONS

Co-President, Hong Kong Student Association (HKSA) 2017 – 2018

Financial Officer, Society of Latino Engineers (SOLE) 2016 – 2017

Student Staff, Institute for Diversity in the Arts (IDA) 2017 – 2018