KENNY CHANG

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	$B.S.\ Mathematics + M.S$. Electrical Engineerin	a. Stanford University	(Spr 2018)
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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

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 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, Critical Reading: 800, Mathematics: 770, Writing: 760 Nov 2013

GRE, Quantitative: 168, Verbal: 166, Writing: 5.0 Jun 2016

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++ ••o, Verilog •oo, Java •oo

Foreign Languages: Spanish $\bullet \bullet \bullet \bullet$, Mandarin $\bullet \bullet \bullet \circ$, Cantonese $\bullet \bullet \circ \circ$, Quechua $\bullet \circ \circ \circ$

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

KEY COURSEWORK

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

STUDENT LEADERSHIP

Co-President, Hong Kong Student Association (HKSA)

2017 - 2018

Co-led cultural organization of over 400 members; helped organize small- and large-scale social, cultural, and political events relating to Hong Kong and the Cantonese diaspora

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

2017 - 2018

Helped inaugurate IDA's Arts Practice Cohort, a group of artists dedicated to promoting traditionally-underrepresented art forms on campus and in the wider community

Financial Officer, Society of Latino Engineers (SOLE)

2016 - 2017

Managed over \$20,000 in organization funds; helped solicit over \$8,000 in funding from corporate sponsors; helped reorganize corporate sponsorship and contact structure

Technical Liaison, Opportunity Job Fair (SOLE)

2016

Led electronic student registration for Stanford Engineering's largest job fair for underrepresented groups in ${\rm STEM}$