YIH-JEN KU

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EDUCATION

COLUMBIA UNIVERSITY CLASS OF 2016
The Fu Foundation School of Engineering & Applied Science
Bachelor of Science in Applied Mathematics, Concentration in Data Science and Computer Science
GPA: 3.84/4.0; Major GPA: 4.0/4.0

APPLICABLE COURSEWORK *Completed:* Intro to Java, Intro to Python, Linear Algebra, Probability, Complex Analysis
To Be Completed in 2015: Data Structures/Algorithms, Data Mining, Discrete Mathematics, Partial Differential Equations

PROFESSIONAL EXPERIENCE

COLUMBIA UNIVERSITY MATHEMATICS DEPARTMENT
Undergraduate Teaching Assistant • September 2013 – Present
Administer three office hours per week to all undergraduate students seeking supplementary assistance with
Pre-Calculus, Calculus I, II, III, or IV; Review material and grade problem sets and exams for a class of ~100 students.

COLUMBIA UNIVERSITY ACADEMIC SUCCESS PROGRAM
Residential Counselor & Teaching Assistant • Summer 2014
Over the course of six weeks, mentor 66 newly admitted students carefully selected by Columbia Admissions and the
Center for Student Advising coming from disadvantaged backgrounds; Collaborate with Columbia administration to
track each student's progress over the course of the program; Introduce them to resources at Columbia; Tutor nightly in
Physics, Chemistry, Calculus, and Writing; Organize events around NYC; Facilitate living in the dormitory.

MIDDLESEX SCHOOL SUMMER ARTS PROGRAM
Assistant Technical Director, Junior Counselor • Summer 2012 & Summer 2013
Direct the technical productions for five to six three-hour theater productions each session (i.e. lighting & sound design,
set design, stage crew direction, building crew direction); Collaborate across theater departments to ensure seamless
productions; Instruct courses in Lighting & Sound, Technical Theater & Design, Woodworking, and MSSA Newspaper

SKILLS & INTERESTS

PROGRAMMING & DESIGN Python, Java, HTML, CSS, JavaScript, MATLAB; Adobe Creative Suite (InDesign,
Photoshop); Flask; Google SketchUp; Microsoft Office (Word, Excel, PowerPoint, Publisher); MongoDB
LANGUAGE *Primary:* English, *Secondary:* Mandarin Chinese **INTERESTS** Photography, Writing, Guitar, Voice

LEADERSHIP & ACTIVITIES

NCAA DIVISION I MEN'S LIGHTWEIGHT ROWING
Varsity Coxswain • Columbia University: 2009 – Present
Coordinate and coach the rowers in and out of the boat; Effectively communicate instructions from the coaches and
critical information during races and practices to the rowers; Motivate and rally the team to achieve their best
performance in every race; Compile and study each rower's stats to optimize their individual athletic potential.

ENGINEERING STUDENT COUNCIL
Student Life Committee Member • Columbia University: 2014 – Present
Work closely with a committee of eight in order to enhance the campus experience for students in both the engineering
school and the rest of the undergraduate population; Plan and organize school and university-wide events with the overall
goal of fostering Columbia pride and SEAS school spirit; Take minutes at committee meetings and research past events.

COLUMBIA UNIVERSITY NEW STUDENT ORIENTATION PROGRAM
Crew Chief • Columbia University: Fall 2013
Act as a liaison between the Orientation Committee and Orientation Leaders; Interview and train potential OLs; Manage
and delegate various tasks to a small group of OLs throughout orientation; Represent Columbia University in a positive
manner toward new students and their families.

ACADEMIC AWARDS & HONORS

Intercollegiate Rowing Association All-Academic Team (2014)
John Lyon Collyer Award, Men's Varsity National Lightweight Eight 3rd Place (2014)
Kenneth F. Burns Memorial Award, 2nd Varsity Lightweight Eight Eastern Sprints Champion (2014)
Columbia University Dean's List & Scholar-Athlete (2012, 2013, 2014)
Columbia University Student-Athlete 4.0 Club (2013)

PROJECTS

LIGHTWEIGHT ROWING DATABASE
Scripts written Python that analyzes the data of 40 rowers collected in Excel; Creates both a team page with all
statistics, times, and records for the team; Extracts the information of each rower into his own page and compares his
stats with both the team and Olympic-level lightweight rowers.

PERSONAL WEBSITE (*in progress*) @ YIHJEN.COM
Currently self-teaching how to create and manage a personal website written in HTML, CSS, and JavaScript.