WAH LOON KENG

 $An\ undergraduate\ theorist\ who\ loves\ solving\ real\ world\ problems\ in\ math,\ computer\ science\ and\ physics.$

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EDUCATION

Lafayette College, Pennsylvania	expected May 2016
B.S. in Mathematics, Minor in Computer Science	Overall GPA: 3.86

AWARDS

Lafayette College Benjamin F. Barge Mathematical Prize	2014
Second, Third - Lafayette College Barge Math Competitions	2013 - 2014
Second - LVAIC Regional College Math Competition	2012
Dean's List - Lafayette College	2012 - 2014
Gold, Top 5 team - National Physics Competition, Malaysia	2010
Gold - ICAS International Math Competitions, University of New South Wales	2009

RESEARCHES

Fulcrum Tech, Inc

Fall 2014 - Present

Email Standard Research

· Developed HTML email template that renders consistently with responsiveness across all email clients. GitHub (private): HTML-Email-with-Sass, html-email-generator.

Perimeter Institute for Theoretical Physics Summer Student

Summer 2014

Quantum Foundations with Dr. Matthew Pusey and Dr. Tobiaz Fritz.

 \cdot Correlations in the C3 causal structure. Used Quantum Computation and Information theory to study the foundations and differences between quantum and classical physics.

Unpublished: Correlations in C3 and BlockCode and Bundled Form, W.L. Keng.

Lafayette College EXCEL Program

Summer & Fall 2013

Computational Geometry with Dr. Ge Xia.

· Delaunay Triangulation, graphs, spanner problems. Proved that the Yao-5 graph, useful in wireless networks, is a spanner, i.e. short distance always exists.

Published: New and Improved Spanning Ratios for Yao Graphs, Barba et.al.

GitHub: Yao-Graph-Research.

WORK EXPERIENCE

Email Researcher and Coder, Fulcrum Tech, Inc	2014 - Present
Graphic Designer and Proctor, Lafayette College Foreign Languages Dept.	2014 - Present
Physics Student Grader, Lafayette College	2012 - Present
Physics Supplemental Instructor, Lafavette College	Spring 2014

LANGUAGES

Computer Proficient: Java, C++, HTML/CSS/Sass, Mathematica, LaTeX

Elementary: C, JS, Matlab

Spoken Fluent: English, Chinese, Malay, Cantonese, Hokkien

COURSES

Freshman	Phys 327 Advanced Classical Mechanics
Math 263 Calculus III	Phys 338 Advanced Physics Lab
Math 264 Differential Equations	
Math 312 Partial Differential Equations	Junior
Phys 151 Accelerated Physics	CS 150 Data Structures and Algorithms
Phys 218 Oscillatory & Wave Phenomena	Math 351 Abstract Algebra
v	Math 358 Topology
Sophomore	Math 391 Advanced Multivariable Calculus
Math 290 Transition of Theoretical Math	
Math 300 Vector Spaces	Anticipated (Spring 2015)
Math 356 Real Analysis I	CS 205 Software Engineering
Phys 342 Electromagnetic Fields	CS 303 Theory of Computation
Phys 351 Quantum Theory	Math 335 Probability