

WAH LOON KENG

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

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<https://github.com/kengz>

EDUCATION

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

<i>Lafayette College Benjamin F. Barge Mathematical Prize</i>	2014
First, 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

Lafayette College EXCEL Program	Summer & Fall 2013
<i>Computational Geometry with Dr. Ge Xia.</i>	

- 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.

Perimeter Institutes for Theoretical Physics Summer Student	Summer 2014
<i>Quantum Foundations with Dr. Matthew Pusey and Dr. Tobias Fritz.</i>	

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Unpublished: Correlations in C3 and BlockCode and Bundled Form, W.L. Keng.

Fulcrum Tech, Inc	Fall 2014 - Present
<i>Email Standard Research</i>	

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

WORK EXPERIENCE

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

LANGUAGES

Computer	Proficient: Java, C++, HTML/CSS/Sass, Mathematica, LaTeX Elementary: C, Matlab
Spoken	Fluent: English, Chinese, Malay, Cantonese, Hokkien