

# 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**

B.S. in Mathematics, Minor in Computer Science

expected May 2016

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. Tobias Fritz.*

- 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*Unpublished:* `Correlations in C3` and `BlockCode` and `Bundled Form`, W.L. Keng.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, Lafayette College*

Spring 2014

## LANGUAGES

**Computer**

Proficient: Java, C++, HTML/CSS/Sass, Mathematica, LaTeX  
Elementary: C, JS, Matlab

**Spoken**

Fluent: English, Chinese, Malay, Cantonese, Hokkien