

Wah Loon Keng

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EDUCATION

LAFAYETTE COLLEGE

BS IN MATHEMATICS

MINOR IN PHYSICS

Dec 2015 | Easton, PA

Cum. GPA: 3.83 / 4.0

LINKS

Github: [kengz](#)

LinkedIn: [theoriesinpractice](#)

Google Scholar: [Wah Loon Keng](#)

COURSEWORK

UNDERGRADUATE

Artificial Intelligence

Senior Project: Machine Learning

Theory of Computation

Software Engineering

Advanced Algorithms

Adv. Multivariable Calculus

Partial Differential Equations

Vector Spaces

Abstract Algebra

Topology

Real Analysis

Fixed & Mixed Effect Models

Probability

Advanced Quantum Theory

Advanced Classical Mechanics

Advanced Physics Lab

Electromagnetic Fields

Oscillatory & Wave Phenomena

SKILLS

PROGRAMMING

Proficient:

Python • PyTorch • Kubernetes

Basic:

SQL • C++ • Java • Ruby

LANGUAGE

Fluent:

English • Mandarin • Malay

Cantonese • Hokkien

EXPERIENCE

MACHINE ZONE INC | AI ENGINEER

April 2018 - Present | Palo Alto, CA

- Deep Reinforcement Learning research and application.
- Create AI training and deployment pipeline on Kubernetes.

ELIGIBLE INC | SOFTWARE ENGINEER

March 2016 - March 2018 | Brooklyn, NY

- Created the company's data science platform and automation pipeline.
- Created insurance payer search engine using deep learning.

SINGAPORE-ETH SMART CITIES LAB | SOFTWARE ENGINEER

August 2015 - September 2015 | Singapore

- Traffic network optimization for urban planning using graph theory and Java.

RESEARCH

LAFAYETTE COLLEGE | EXCEL UNDERGRADUATE RESEARCHER

Summer 2015 | Easton, PA

Vertex Cover - studied its NP-hard complexity using Measure and Conquer. Under Prof Ge Xia.

Summer 2013 | Easton, PA

Yao Graphs shortest path and spanning ratios for $k = 5$. Under Prof Ge Xia.

SOCG'14 Publication: *New and Improved Spanning Ratios for Yao Graphs*.

PERIMETER INSTITUTE | STUDENT RESEARCHER

Summer 2014 | Waterloo, Canada

Quantum Foundations - explored quantum paradoxes in the C3 causal structure using quantum computation. Under Matthew Pusey and Tobias Fritz. Manuscript: *Block Code & Bundled Form*.

PROJECTS

SLM-Lab	A framework for Deep RL using Unity, OpenAI Gym, PyTorch, Tensorflow.
OpenAI Lab	An experimentation framework for Deep Reinforcement Learning.
AIVA	General-purpose virtual assistant for developers.
spacy-nlp	The official Node.js client for spaCy NLP.
dokkerJS	Dokker.js creates professional Javascript code documentations.

PUBLICATIONS & TALKS

- [1] Barba et.al. *New and Improved Spanning Ratios for Yao Graphs*. **SOCG'14**, in press.
- [2] Tutorials on deep RL and OpenAI Lab. latest link: Dec 2017.

AWARDS

2017	AI Grant Spring 2017 finalist - OpenAI Lab
2014	Lafayette College Benjamin F. Barge Mathematical Prize
2013-14	2 nd , 3 rd , Lafayette College Barge Math Competitions
2012	2 nd , LVAIC Regional College Math Competition
2010	Gold, Top 5 Team, Malaysian National Physics Competition
2009	Gold, ICAS International Math Competition