

Apivich Hemachandra (Kaotoo)

Curriculum Vitae

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Education

Mahidol University International College (MUIC)
University in Nakhon Pathom, Thailand
B.Sc., Physics, Expected Graduation in 2020.
Minors in Computer Science and Mathematics
Current GPA of 3.98

Exchange semester at University of Wisconsin-Madison
Madison, WI, United States of America
Attended as part of MUIC's exchange program in Fall 2018

Varee Chiangmai International School
High school in Chiangmai, Thailand
A-Levels in Mathematics, Physics, Chemistry and Biology

Certificates

TOEFL iBT: Score of 114 out of 120 (exam taken in January 2020)

IELTS: Score of 8.5 out of 9 (exam taken in January 2018)

Achievements

Winner of FameLab Thailand, April 2018
Competition held by British Council requires participants to present any scientific topic within a 3 minute time limit
Also chosen as the representative for Thailand at FameLab International held at Cheltenham Science Festival, United Kingdom in June 2018

Academic Achievement Awards, 2017, 2018 and 2019
Awarded to students at MUIC with outstanding academic records

Thailand's Highest Overall Achiever Across 4 AS-Level courses, 2015
Rewarded for receiving four A's for Mathematics, Physics, Chemistry and Biology with highest average score

Skills

Physics
Classical Mechanics, Electricity & Magnetism, Statistical Mechanics, Quantum and Atomic Physics, Computational Physics, Electronics and Physics Laboratories

Computer Science
Numerical Methods and Convex Optimisation, Data Structures and Algorithms
Data Science and Machine Learning, Object-Oriented Concepts and Design Patterns

Programming Languages
Most fluent in Python (including packages such as SciPy, Scikit-Learn, Tensorflow)
Able to also write Java (including Spring framework), C, C++, and Julia

Other computer skills
Microsoft Office package, L^AT_EX, Basic video editing

Mathematics

Multivariable Calculus, Linear Algebra, Introductory Real Analysis, Statistics

Languages

Thai (native speaker) and English (fluent), Spanish (elementary)

Soft skills

Team-work and leadership skills, responsible, adaptable

Communication and presentation skills, analytical and logical thinking

Experiences**Teaching Assistant**

Principles of Physics (Trimester 1, 2017-18)

Discrete Mathematics (Trimester 2, 2018-19)

Data Structures and Algorithms (Trimester 3 2018-19, and Trimester 1 2019-20)

Internship at Vidyasirimedhi Institute of Science and Technology (VISTEC)

Research internship during the summer of 2019

Work mainly focus on machine learning and natural language processing

Projects with PTT Exploration and Production (PTTEP)

A Thai company who deals with process of extracting and processing petroleum

Was a part of a team, led by a professor from MUIC, which helps with tasks assigned by PTTEP (mostly involving automation tasks currently done by human)

Projects**Flows Solver**

Link: https://github.com/thecheesynachos/flows_solver

Personal project

Program detects the puzzle from screenshot, and attempts to solve it

Written in Julia

Drawing Fair Voting Districts

Link: https://github.com/thecheesynachos/opt_project

Class project for Introduction to Optimisation

Optimisation problem involving graphs

Written in Julia

Hobbies and Activities**RandomMathsInc, 2015 - Present**

<https://www.youtube.com/c/RandomMathsInc>

A channel which discusses various topics in mathematics, computer science and physics currently with around 6,000 subscribers

Member of Mahidol Debate Society, 2016 - 2018

Semi-finalist of 12th EUinTH National Debate Competition, 2017

Attendee of United Asian Debating Championships 2017

Attendee of Asian British Parliamentary Debate 2017

Member of organisation committee of 13th EUinTH National Debate competition, 2018

Involvements with TEDxChiangMai and TEDxMahidolU, 2013 - 2014 and 2017

One of the youth speakers at the first TEDxChiangMai in October 2013

Volunteer and MC at TEDxYouth@ChiangMai in November 2014

Part of translator team at TEDxMahidolU in June 2017

Other Hobbies

Sports, including (association) football

Musical skills, including drums, guitar and singing
