TAN HONG KIAT

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EDUCATION

University of California, Los Angeles

Ph.D. Candidate, Applied Mathematics

Aug 2021 - 2026 (Expected) *GPA*: 3.97/4.0

University of California, Los Angeles

Aug 2021 - Jun 2022

M.A in Mathematics

National University of Singapore

Aug 2017 - May 2021

Bachelor of Science (Honours) in Applied Mathematics with Highest Distinction

CAP: 4.97/5.00

• Second Major: Physics

• Minor: Statistics

RESEARCH INTERESTS

Partial Differential Equations

Mathematical and Computational Physics

Statistics and Machine Learning

PUBLICATIONS

Regularization of Complex Langevin Method.
Z. Cai, Y. Kuang, H.K. Tan. | Physical Review D 105 (1), 014508.

• Hierarchical Bayesian Thermonuclear Rate for the 7Be (n, p) 7Li Big Bang Nucleosynthesis Reaction. R.S. de Souza, **H.K. Tan**, A. Coc, C. Iliadis. || The Astrophysical Journal 894 (2), 134.

HONOURS AND AWAWRDS

Dean's List 2018-2021

• Awarded to top 5% of the total undergraduate Science students for Academic Year 2018/19, 2019/20, and 2020/21 for both Semesters 1 and 2.

Ho Family Prize 2021

• Awarded to the best overall student in Applied Mathematics who has passed the examination for Degree of Bachelor of Science (Honours) for Academic Year 2020/21.

Honour List of Student Tutors

2020 - 2021

Awarded to student tutors who have attained this excellence during their course of teaching for Academic Year 2019/20 and 2020/21.

Tan Siak Kew Gold Medal

2020

• Awarded to the best student in Science III for Academic Year 2019/20.

Tan Teck Chwee Prize

2020

Awarded to the best student in Applied Mathematics III for Academic Year 2019/20.

NUS Awards for Study Abroad Enhancement Scholarship

2019

• Awarded to students who are participating in short-term programs or research attachments.

Sembcorp Marine Prize

2019

• Awarded to two of the best students in Physics III for Academic Year 2018/19.

Arthur Rajaratnam Prize

2019

• Awarded to the best student in PC2193 Experimental Physics I for Academic Year 2018/19.

Jurong Shipyard Prize

2018

• Awarded to two of the best students in Physics I for Academic Year 2017/18.

NUS Merit Scholarship

2015

Sep 2021 - Present

University of California, Los Angeles

Teaching Assistant

Teaching Feedback Scores:

			Overall	Availability/Helpfulness
Code	Class	Iteration	Effectiveness	outside of the classroom
Math 266B	Applied PDEs	Winter 2024	In Progress	In Progress
Math 135	Ordinary Differential Equations	Fall 2023	8.88/9.0	9.0/9.0
Math 134	Linear and Nonlinear Systems of DEs	Spring 2023	8.57/9.0	8.86/9.0
Math 170E	Introduction to Probability	Winter 2023	8.38/9.0	8.25/9.0
Math 131A	Analysis	Summer 2022	8.47/9.0	8.53/9.0
Math 136	Partial Differential Equations	Spring 2022	8.83/9.0	8.82/9.0
Math 32BH	Calculus of Several Variables (Honors)	Winter 2022	8.67/9.0	8.89/9.0
Math 134	Linear and Nonlinear Systems of DEs	Fall 2021	8.67/9.0	8.79/9.0

National University of Singapore

Jan 2018 - May 2018 | Jan 2019 - May 2021

Teaching Assistant, Grader and Student Helper

• Teaching Assistant

Teaching Feedback Scores:

		Overall	Average Score over	Recommendations
Module	Iteration	Effectiveness	all Components	for Teaching Award
CS1231 Discrete Structures	AY20/21 Sem 2	4.7/5.0	4.5/5.0	4/18
CS1231 Discrete Structures	AY20/21 Sem 1	5.0/5.0	4.9/5.0	12/17
CS1231 Discrete Structures	AY19/20 Sem 2	4.4/5.0	4.4/5.0	11/18
CS1231 Discrete Structures	AY19/20 Sem 1	4.7/5.0	4.6/5.0	4/9
CS1010S Programming Methodology	AY18/19 Sem 2	5.0/5.0	4.8/5.0	5/6

- Grader for CS1010E Programming Methodology, AY2019/20 Sem 2.
- Student Helper for GET1042 Sky and Telescopes, AY2018/19 Sem 2 and AY2017/18 Sem 2.

OTHER SKILLS

• Programming Languages:

Programming Languages	Proficiency
Python	***
R	****
Mathematica	****
LaTeX	****
MATLAB	****
Julia	

• Language:

Language	Proficiency
English	Native or Bilingual Proficiency
Mandarin Chinese	Native or Bilingual Proficiency