

Kaze W. K. Wong

ASSISTANT RESEARCH PROFESSOR · RESEARCH SOFTWARE ENGINEER

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I work on a wide range of topics revolving around building **production-grade machine learning enhanced software for real-life problems** to take on challenges that are progress-limiting. The topics I work on include but are not limited to data-driven astrophysics, bayesian inference, high performance machine learning-enhanced simulations, robust machine learning, digital twins, medical imaging, and large-scale deep learning. I deeply care about **code performance, usability, and robustness**. I am also a strong advocate for **open-source software** and reproducible research.

Experience

Assistant Research Professor

DEPARTMENT OF APPLIED MATHEMATICS AND STATISTICS

Johns Hopkins University, Baltimore

2024 August - Present

Research Software Engineer

DATA SCIENCE AND AI INSTITUTE

Johns Hopkins University, Baltimore

2024 August - Present

Flatiron Research Fellow

CENTER FOR COMPUTATIONAL ASTROPHYSICS

Flatiron Institute, New York

2021 August - 2024 August

Education

Johns Hopkins University

PH.D. IN PHYSICS AND ASTRONOMY

Baltimore, Maryland

August 2017 - August 2021

The Chinese University of Hong Kong

B.SC. IN PHYSICS

Hong Kong

August 2013 - August 2017

Honors and Awards

GWIC-Braccini Thesis Prize

2021

HPC-Europa 3 Transnational Access Programme Awardee

2020

HKSAR Reaching Out Award

2015

New Asia Collage Student Study Trip Scholarship

2015

C.N. Yang Scholarship

2014

Mentees Alexander Verhaeghe, KU Leuven, Summer undergrad intern Tony Luo, Queens College, Summer undergrad intern Ben Y. O. Xu, The Chinese University of Hong Kong, Summer undergrad intern and final year project Charmaine S. M. Wong, The Chinese University of Hong Kong, Summer undergrad intern and final year project Jiadong Li, New York University, Ph.D. student Ronan Legin, Université de Montréal, Ph.D. student Wilson Gregory, Johns Hopkins University, Ph.D. student Kelvin K. H. Lam, The Chinese University of Hong Kong, Summer undergrad intern Thomas C. K. Ng, The Chinese University of Hong Kong, Summer undergrad intern David Ruhe, University of Amsterdam, Ph.D. student Joseph Gais, The Chinese University of Hong Kong, MSc student Damon H. T. Cheung, The Chinese University of Hong Kong, Summer undergrad intern and final year project

Mentoring

Rachel Zhang

CCA PREDOC

Northwestern University

Spring 2024

Alexander Verhaeghe

UNDERGRADUATE INTERN

KU Leuven

Summer 2023

Tony Luo

UNDERGRADUATE INTERN

Queens College

Summer 2023

Ben Y. O. Xu

UNDERGRADUATE INTERN AND FINAL YEAR PROJECT

The Chinese University of Hong Kong

Summer 2023

Charmaine S. M. Wong

The Chinese University of Hong Kong

UNDERGRADUATE INTERN AND FINAL YEAR PROJECT

Fall 2023 - present

Jiadong Li

New York University

PH.D. STUDENT

2022 - Present

Ronan Legin

Université de Montréal

PH.D. STUDENT

2022 - Present

Wilson Gregory

Johns Hopkins University

PH.D. STUDENT

2022 - Present

Kelvin K. H. Lam

The Chinese University of Hong Kong

UNDERGRADUATE INTERN

Summer 2022

Thomas C. K. Ng

The Chinese University of Hong Kong

UNDERGRADUATE INTERN

Summer 2022

David Ruhe

University of Amsterdam

PH.D. STUDENT

2021 - Present

Joseph Gais

The Chinese University of Hong Kong

MSC STUDENT

2021 - Present

Damon H. T. Cheung

The Chinese University of Hong Kong

UNDERGRADUATE INTERN AND FINAL YEAR PROJECT

Summer 2021

Publications
