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 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   Johns Hopkins University, Baltimore
Department of Applied Mathematics and Statistics   2024 August - Present

Research Software Engineer   Johns Hopkins University, Baltimore
Data Science and AI Institute   2024 August - Present

Flatiron Research Fellow   Flatiron Institute, New York
Center for Computational Astrophysics   2021 August - 2024 August

Education

Johns Hopkins University   Baltimore, Maryland
Ph.D. in Physics and Astronomy   August 2017 - August 2021

The Chinese University of Hong Kong   Hong Kong
B.Sc. in Physics   August 2013 - August 2017

Honors and Awards

Languages   C++, **Python**, Java, C#, JavaScript, TypeScript
Spoken Languages   **English**, Spanish
Programs   **Excel**, Word, Powerpoint, Visual Studio