

Dr. Chi Chung Alan, FUNG

PhD in Physics

Assistant Professor at the City University of Hong Kong

Place of Birth & Citizenship: Hong Kong

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🎓 Education

University Education:

PhD in Physics (HKUST)

GPA: 10.29/12.0, Aug 2013

Mphil in Physics (HKUST)

GPA: 10.29/12.0, Aug 2010

BSc in Math. & Phys. (HKUST)

GPA: 10.08/12.0, Jun 2008

Other Trainings:

Specialization in Deep

Learning (DeepLearning.AI)

Completion: 14 Feb 2021

Specialization in Natural

Language Processing

(DeepLearning.AI)

Completion: 2 May 2021

✂ Skills

Computer Skills:

OS: Windows and Linux

Computer Languages: C++,

python (numpy, scipy, Tensorflow, nest), SQL, R, Bash, HTML, Latex, gnuplot, etc.

Computational Skills:

Simulations, Machine Learning, Deep Learning, Natural Language Processing

Other Skills: Fault Diagnosis

Mathematical Skills:

Differential Equations, Algebra, Statistics, Numerical Methods

Languages:

Chinese

Cantonese Native

Mandarin Fluent

English Fluent

Japanese Intermediate

Profile

- A Quantitative Scientist Working on Computational Neuroscience
- Researches include Mathematical Models and Data Analysis



⚙ Working Experience

Assistant Professor CityUHK 02/2022 – Present

Duties: Teaching and Research

Staff Scientist OIST 04/2019 – 01/2022

Duties: Mathematical Modeling, Teaching, and Data Analysis

Research Scientist RIKEN CBS 04/2015 – 03/2019

Duties: Mathematical Modeling and Data Analysis

Postdoctoral Fellow HKUST 10/2013 – 03/2015

Duty: Mathematical Modeling

🏆 Achievements

Research Fund:

Agency: JSPS (Japan) **Project ID:** 19K16885

Amount: 4,290,000 JPY **Duration:** Apr 2019 - Mar 2023

Notable Awards:

- Department Research Award (2013), HKUST
- Best TA (2011), HKUST
- Young Researchers Forum Best Project Presentation Award (2011), The 3rd International Conference on Cognitive Neurodynamics

Publications:

Twenty-two academic papers: **One** Review, **15** Original Research Articles, **six** Notable Conference Proceedings (**Four** in NIPS, a top AI Conference)

📖 Selected Publications

Discrete-attractor-like tracking in continuous attractor neural networks

First-authored. *Physical Review Letters* **122** 018102 (2019)

Perisaccadic receptive field expansion in the lateral intraparietal area

Co-first-authored. *Neuron* **90**(2) 400-409 (2016)

Delay Compensation with Dynamical Synapses

First-authored. NIPS2012, Spot-light Presentation