

WeiJun Yuan

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EDUCATION

Bachelor of Science in Physics (International Research Enrichment Track) 2016 to 2020
(expected)

The Hong University of Science and Technology (HKUST)
Cumulative Grade Average (CGA): 4.045/4.3 as of 2019-20 Spring

Exchange Student 2019
Columbia University in the City of New York

RESEARCH EXPERIENCE

Research Assistant 2018 to present
Department of Physics, HKUST

- Assistant to Professor Gyu-Boong Jo, building apparatus for cooling Erbium atoms
- Built the ECDL and calculated the optical dipole trap (ODT) parameters
- Helped Ph.D. seniors with coils of magneto-optical trap (MOT) and designing quasi-2D optical dipole trap for Erbium BEC

Research Internship 2019
Department of Physics, Columbia University in the City of New York

- Assistant to Professor Sebastian Will, working on achieving ultracold NaCs molecules
- Worked with Ph.D. seniors on 2D Cesium MOT, building the optics and electronics

Undergraduate Research Opportunities Program 2017-2018
Department of Physics, HKUST

- Assistant to Professor Kwok Yee Michael Wong, working on neural dynamics.
 - Used deep neural network to study the information processing in the brain
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Preprint

Seo, B., Chen, P., Chen, Z., **Yuan, W.**, Huang, M., Du, S. and Jo, G. *Efficient production of a narrow-line erbium MOT with two-stage slowing*. arXiv:1912.12649 (2019) [preprint]

PRESENTATION

Seo, B., **Yuan, W.**, and Jo, G., "A versatile apparatus for quantum simulation with ultracold dipolar Erbium atoms", The 26th International Conference on Atomic Physics (ICAP 2018), Barcelona, Spain, 22-27 July 2018

HONORS AND AWARDS

Renewable Admission Scholarship (four-year full tuition fee and living allowance), *HKUST* 2016-2020

Dean's List, *School of Science, HKUST* 2017-2019

Innovation and Technology Scholarship , <i>Innovation and Technology Commission of the HKSAR Government, HSBC and The Hong Kong Federation of Youth Groups</i>	2018-2019
School of Science Exchange Scholarship , <i>School of Science, HKUST</i>	2019
Lee Hysan Overseas Scholarship , <i>Lee Hysan Foundation</i>	2019

TECHNICAL COMPETENCY

Python

- Used Keras and TensorFlow to build deep neural network

SolidWorks

- Designed the coils holders, mirror mounts for specific experiments

CircuitMaker

- Designed PCBs for some basic circuits.
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UNIVERSITY AND COMMUNITY SERVICE

Organizer and host of STEM education workshop <i>The Hong Kong Federation of Youth Groups</i>	2018
<ul style="list-style-type: none"> • Held three workshops on air cannon to teach primary students about air pressure 	
Peer Mentoring Program <i>School of Science, the Hong Kong University of Science and Technology</i>	2017-2018
<ul style="list-style-type: none"> • Mentored freshmen to help them to adapt to university life 	
Volunteer <i>The Salvation Army</i>	2017
<ul style="list-style-type: none"> • Visited the elderly in a nursing home and taught them Chinese calligraphy 	

Languages

Chinese (Native)

English (fluent)
