Hung Lo

Charité – Universitätsmedizin Berlin Neuroscience Research Center (NWFZ) ⋈ hung.lo@charite.de Twitter @HungLo tw

Optical imaging, Ephys, Systems neurosciences

Education

2017 - Present

Charité - Universitätsmedizin Berlin - Medical Neurosciences, PhD.

With Freie Universität Berlin and Humboldt - Universität zu Berlin, Berlin Institute of Health, NeuroCure Cluster of Excellence



PhD Fellow of Einstein Center for Neurosciences Berlin Metabolic dependency of cortical flavor representation.

Supervisors: PD Dr. Friedrich Johenning/Prof. Dr. Dietmar Schmitz

2010 - 2015

National Yang-Ming University - *Life Sciences & Genome Sciences*, BSc/MSc.

Integrated 5-year MSc/BSc program

GPA: 4.0/4.0, Ranking: 2nd (MSc) | GPA: 3.84/4.0, Ranking: 2nd/37 (BSc)

Achieved 9/16 credits towards a minor in Gender Studies

Cdk12 maintains normal hair regeneration by minimizing genome instability.

Supervisor: Dr. Ming-Ji Fann

Experiences

July 2019

Linear Algebra for Neuroscientists, Radboud Summer School, Radboud University, Nijmegen, the Netherlands.



Intense summer school of linear algebra, specifically for neuroscience data, lectured by Dr. Michael X Cohen. Info

2019 - 2020

eLife Community Ambassadors.



Involved in 1) statistical literacy team, compiling survey and statistical resources for biologists, 2) meta-research team, measuring image reporting quality in biomedical articles eLife news

2018 – 2019 **Scientific Writer**, Charité NeuroScience (CNS) Newsletter.

Scientific articles and news CNS newsletter issues

2017 - 2018

The Multi-scale Brain MOOC, Human Brain Project, EPFL, Switzerland.

This Massive Open Online Course (MOOC) gives a broad overview of the latest tools and techniques for neuroinformatics, analysis, modelling and simulation. It also includes tutorials on Allen Institute's available data sets. Info

2016 - Present Scientific Writer, PanSci-Asia, Popular Science Media, Taipei, Taiwan, Scientific articles and news, co-work with Chi-Chieh Lee, Publications (Chinese).

2016 - 2017

Research Assistant, Academia Sinica, Taiwan.

Institute of Molecular Biology, Dr. Jun-An Chen's Lab <u>Lab website</u> Topic: Stem Cell Culture and Genome-Wide Analysis (ChIRP-seq)

2015 – 2016 **Medic**, *R.O.C Navy*, *Taiwan*.

Mandatory military service

Publications

2020 Circuit-specific dendritic development in the piriform cortex, eNeuro,
Moreno-Velasquez L, Lo H, Lenzi S, Kaehne M, Breustedt J, Schmitz D, Rüdiger S and Johenning F.

Experimental and Computational Skills

Optical imaging in vivo Ca²⁺ imaging (endomicroscopy, freely moving), in vitro 2-Photon microscopy

Electrophysiology Patch clamp

Animal model Mouse handling, immunostaining, stereotaxic injection & GRIN lens implantation

Tissue culture Mouse ESC culture, Motor neuron differentiation

Molecular biology ChIRP-seq, RT-qPCR, Molecular cloning, Western blotting

Programming Python: visualization, Ca²⁺ imaging analysis (CNMFe), pose estimation (DeepLabCut)

Honors and Awards

2019 **Charité PhD Scholarship (Promotionsstipendium II)**, declined.

One-year doctoral scholarship from Charité – Universitätsmedizin Berlin Scholarship info

2018 - 2020 Taiwanese Government Scholarship to Study Abroad.

The Ministry of Education of Taiwan awards a 2-year PhD scholarship to prestige PhD students who study abroad. *Scholarship info (Chinese)*

2017 – 2019 PhD Fellowship of Einstein Center for Neurosciences Berlin.

The Einstein Center for Neurosciences Berlin awards top 15 outstanding candidates for a 2-year PhD fellowship. <u>ECN PhD fellows</u>

2015 Member of The Phi Tau Phi Scholastic Honor Society.
Honors for top 1% outstanding graduate students in Philosophy, Technology, and Physiology.

2014 – 2015 Integrated 5-year MSc/BSc Program Scholarship.

2014 ApexBio Taiwan (BioTech firm) MSc Student Scholarship.

2014 **Dean Award of Bachelor Thesis**, National Yang-Ming University.

2014 First Prize Award, Poster Presentation, National Yang-Ming University.

2013 National Science Council College Student Research Fellowship.

Languages

Mandarin/Chinese Native

English Fluent

TOEFL iBT 99 R28-L27-S22-W22

Talks and Conferences

February 2020 REWARD | EQUATOR Conference, Berlin, Germany, Meta-Research, Reproducibility.

October 2019 HeiNEC 3 - Heidelberg Neuronal Ensemble Conference, Heidelberg, Germany.

September 2019 I, Scientists, Berlin, Germany, Gender equality, Career path and Networking in STEM fields.

June 2019 **Taiwan GPS X BioGroup (invited talk)**, *Taipei*, Taiwan. Experience sharing for studying abroad in Germany

October 2018 Berlin Neuroscience Meeting, Berlin, Germany, Poster presentation.

July 2018 FENS - Federation of European Neuroscience Societies 2018, Berlin, Germany.