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 - 2015National Yang-Ming University - *Life Sciences & Genome Sciences*, BSc/MSc.

Scholar of 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, NYMU

Cdk12 maintains normal hair regeneration by minimizing genome instability.

Supervisor: Dr. Ming-Ji Fann

Scientific Experiences

July 2020

NeuroMatch Academy, On-line courses, Observer track.



A 3-week intense summer school of computational neurosciences in Python. Introduce traditional and emerging computational neuroscience tools, their complementarity, and what they can tell us about the brain. A main focus is on modeling choices, model creation, model evaluation and understanding how they relate to biological questions. <u>Info</u>

July 2019

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



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

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

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) Contributed to Yen et al., elife, 2018.

2016 – 2018 **Scientific Writer**, *PanSci-Asia*, *Popular Science Media*, *Taipei*, *Taiwan*, Scientific articles and news, co-work with *Chi-Chieh Lee*, *Publications (Chinese)*.

Leadership, Organization & Other Experiences

2020 - Present **PhD representative**, *Medical Neurosciences PhD program*, Charité, *Info*.

2015 - 2016 Medic, R.O.C Navy, Taiwan, Mandatory military service.

2013 – 2014 **BSc representative**, Department of Life Sciences, Yang-Ming.

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.

National Yang-Ming University selects and awards students who finish their MSc/BSc degrees within 5 years (typical 6 years), top 6 undergraduate students are selected in the whole university per year.

- 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, Workshops and Conferences

- August 2020 Workshop on using *DeepLabCut* for pose estimation (invited talk), *Co-speak: Daniel Parthier, Winter Lab, Humboldt Universität zu Berlin*, Berlin, Germany.

 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.