Hung Lo

Curriculum Vitae

(updated 2025.11.21)
Albert Einstein College of Medicine
hung.lo@einsteinmed.edu / website

Systems Neuroscientist interests in Neural & Molecular dynamics,
Olfaction & Binge eating, Imaging & Ephys

Education & Academic Position

2025 – present **Postdoc, Albert Einstein College of Medicine, NY, USA**.
Prefrontal neural and molecular dynamics upon drug addiction
Supervisors: Lucas Sjulson, MD, PhD

2017 – 2024 **PhD, Charité – Universitätsmedizin Berlin, Germany** - *Medical Neurosciences*.
PhD Fellowship: Einstein Center for Neurosciences Berlin
Thesis: Odor representation in mouse olfactory cortex during food intake. *Thesis link*
Supervisors: PD Dr. Friedrich Johenning & Prof. Dr. Dietmar Schmitz
PhD Defense: 2024.Nov.15, graded **Summa Cum Laude**

2016 – 2017 **Research Assistant, Academia Sinica, Taiwan**, Dr. Jun-An Chen's Lab *Lab website*,
Stem cell culture and ChIRP-seq.

2010 – 2015 **MSc/BSc, National Yang-Ming University, Taiwan**-*Life Sciences & Genome Sciences*.
Scholarship: 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
MSc Thesis: Study on roles of *Cdk12* in basal and luminar type epithelial cells by tissue specific cKO mice.
Supervisor: Dr. Ming-Ji Fann

Additional Training & Research Experiences

2025 **Flatiron Neural Data Analysis Workshop at SfN**, *San Diego, USA*, Neural modeling with GLMs.

2025 **NeuroMatch Academy-Deep Learning**, *On-line course*, Decoding with ANNs using visual cortices data.

2022 **Young Investigator Training Program for FENS**, *Girardeau Lab, Inserm*, *lab website*.
3-week research stay, building Bayesian models of spatial decoding for the ephys dataset

2021 **NeuroMatch Academy-Computational Neuroscience**, *On-line course*.
Behavioral uncertainty is predicted by brain states: analysis on Steinmetz Neuropixel dataset

2019 **Linear Algebra for Neuroscientists**, *Summer School, Radboud University*, the Netherlands, *Info*.

2017 – 2018 **The Multi-scale Brain MOOC**, *Human Brain Project*, EPFL, Switzerland, *Info* .

Publications

2025 **Feeding-induced olfactory cortex suppression reduces satiation** *Neuron*.
Lo H[*], Riedel WC, Tantirigama MLS, Schoenherr A, ..., Schmitz D, Johenning FW[*]
[*]Corresponding authors | Media coverage Charité 1, 2, Tagesspiegel

2023 **Ten simple rules to overcome barriers in implementing open and reproducible research practices after training** *PLoS Computational Biology*.
Heise V, Holman C, **Lo H**, ..., Weissgerber TL

2022 **Recommendations for Empowering Early Career Researchers to Improve Research Culture and Practice** *PLoS Biology*.
Kent BA, Holman C, ..., **Lo H**, ..., Weissgerber TL

2021 **Creating Clear and Informative Image-based Figures for Scientific Publications** *PLoS Biology*.
Jambor H*, Antonietti A*, ..., **Lo H**, ..., Weissgerber TL

2020 **Circuit-specific Dendritic Development in the Piriform Cortex** *eNeuro*.
Moreno-Velasquez L, **Lo H**, ..., Johenning FW

Experimental & Computational Skills

Opto- & Ephys	*in vivo* imaging (head-fixed 2-photon & freely moving miniscope) & closed-loop optogenetics *in vitro* 2-photon Ca^{2+} imaging (dendritic & axonal imaging), patch clamp electrophysiology
Programming *GitHub page*	Python: *in vivo* Ca^{2+} imaging & neuropixel ephys analysis (CaImAn, Suite2p, kilosort), 3D image registration (Elastix, BigWarp), pose estimation (Sleap, Deeplabcut), machine/deep learning (sk-learn, PyTorch)/ R: mixed effect model (lme4)
Imaging related	serial 2-Photon tomography (Brainsaw: whole brain imaging) / brainreg & cellfinder
Tissue culture & Molecular bio	stem cell culture & spinal motor neuron differentiation, ChIRP-seq, RT-qPCR, molecular cloning, western blot, staining

Research Grants & Fellowships

2023	**Deutsche Forschungsgemeinschaft: DFG**, *Germany*, Awarded to Friedrich Johenning & Jackie Schiller, The mediodorsal thalamus as a central hub in olfactory learning, providing preliminary results.
2021	**Deutsche Forschungsgemeinschaft: DFG**, *Germany*, Awarded to Friedrich Johenning, Metabolic state dependence of olfactory cortex flavor representation during hedonic overeating, providing preliminary results.
2019	**Charité PhD Scholarship (Promotionsstipendium II)**, *declined*, *Scholarship info*.
2018 – 2020	**Taiwanese Government Scholarship to Study Abroad**, *Scholarship info (in Chinese)*.
2017 – 2020	**PhD Fellowship of Einstein Center for Neurosciences Berlin**, *ECN PhD fellowship link*.
2014, 2015	**Integrated 5-year MSc/BSc Program Scholarship**, *National Yang-Ming University*, Taiwan.
2013	**National Science Council College Student Research Fellowship**, *Undergraduate fellowship*, Taiwan.

Honors and Awards (selected)

Training awards	**2022 - FENS Young Investigator Training Program (France)** **2020 - SPOKES Wellcome Trust Funded Think Tank (Germany)**.
Travel awards	**2025 - Flatiron Neural Data Analysis Workshop at SfN (USA)** **2024 - Cosyne Meeting (Portugal)** **2023 - ECRO (Netherlands), Göttingen Meeting (Germany)** **2021 - SfN (USA/online, funded by Charité)**.
Honors	**2023 - ECRO Young Investigator talk, Göttingen Meeting Young Investigator talk** **2015 - Member of The Phi Tau Phi Scholastic Honor Society** **2014 - Dean Award of Bachelor Thesis, First Prize Award for Poster Presentation**.

Talks, Posters & Workshops (selected)

(Invited) Talks	**2023 - Göttingen Meeting (Germany), ECRO (Netherlands), BNM (Germany), SfN (USA)** **2022 - Inscopix European User Group Meeting (France), ECRO (Germany), SfN (USA)**.
Posters	**2024 - Cosyne Meeting (Portugal)** **2023 - Göttingen Meeting (Germany)** **2022 - FENS (France), SfN (USA/online), AChemS (USA/online)**.
Workshops	**2021 - *DeepLabCut* tutorial for York Winter lab (Germany)** **2020 - *DeepLabCut* tutorial for Federico Calegari lab (Germany)**, *Tutorial materials on GitHub*.

Experiences in supporting Diversity, Equity & Inclusion (DEI)

2021	**Virtual Brainstorming Day - Mental Health for ECRs During the Pandemic**, *Website*.
2020 – 2021	**Member of CCO YourSpace**, *Preventing power abuse, sexual harassment in our research building*.
2019 – 2021	**Member of Dragonfly Mental Health**, *Improving mental health in the academia*, *Website*.

Experiences in promoting Science Reproducibility

2021	**Virtual Brainstorming Day - Education vs Reality**, published in Heise et al., 2023.
2020	**Virtual Brainstorming Day - How can ECRs change science**, published in Kent et al., 2022.
2019, 2021	**Improving [Your] Science**, *Lecturer, Charité*, Reproducibility course for PhDs, *2019*, *2021*.
2019 – 2020	***eLife* Community Ambassadors**, Meta-research on bio-images, published in Jambor, Antonietti et al, 2021.

Other Experiences

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

2016 – 2018   **Scientific Writer**, *PanSci-Asia, Popular Science Media, Taipei, Taiwan*, *Publications (in Chinese)*.

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

2014   **Teaching Assistant in Molecular Biology**, *National Yang-Ming University*, directed by Dr. C-W Luo.

Hobbies

Sports   **Rock climbing/Bouldering, (Beach-)Volleyball**

Puzzles   **Speed Cubing**, Taiwanese delegate of World (Rubik's) Cube Association (2013 - 2015), National record holder for Rubik's Clock (2010-2015), 2nd runner-up in Asian Championship 2014, Tokyo, Japan, *see profile*