



## Fuu Jiun Hwang

Postdoctoral Scholar, Neurosurgery

### Bio

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#### HONORS AND AWARDS

- Postdoctoral Fellowship, Parkinson's Foundation (2024-2026)

#### PROFESSIONAL EDUCATION

- Ph.D., University of Massachusetts Amherst , Molecular and Cellular Biology (2020)
- M.S., National Yang-Ming University, Taiwan , Genome Sciences (2011)

#### STANFORD ADVISORS

- Jun Ding, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Remodelling of corticostriatal axonal boutons during motor learning.** *Nature*  
Sheng, M., Lu, D., Roth, R. H., Hwang, F. J., Sheng, K., Ding, J. B.  
2025
- **Motor learning drives region-specific transcriptomic remodeling in the motor cortex and dorsal striatum.** *bioRxiv : the preprint server for biology*  
Sun, Y., Roth, R. H., Hwang, F. J., Wang, S., Ding, J. B.  
2025
- **Neuroendocrine circuit for sleep-dependent growth hormone release.** *Cell*  
Ding, X., Hwang, F. J., Silverman, D., Zhong, P., Li, B., Ma, C., Lu, L., Jiang, G., Zhang, Z., Huang, X., Tu, X., Tian, Z. M., Ding, et al  
2025
- **Thalamic integration of basal ganglia and cerebellar circuits during motor learning.** *bioRxiv : the preprint server for biology*  
Roth, R. H., Muniak, M. A., Huang, C. J., Hwang, F. J., Sun, Y., Min, C., Mao, T., Ding, J. B.  
2024
- **Multiplexed neurochemical sensing with sub-nM sensitivity across 2.25 mm<sup>2</sup> area.** *Biosensors & bioelectronics*  
Mintz Hemed, N., Hwang, F. J., Zhao, E. T., Ding, J. B., Melosh, N. A.  
2024; 261: 116474
- **A positively tuned voltage indicator for extended electrical recordings in the brain.** *Nature methods*  
Evans, S. W., Shi, D., Chavarha, M., Plitt, M. H., Taxidis, J., Madruga, B., Fan, J. L., Hwang, F., van Keulen, S. C., Suomivuori, C., Pang, M. M., Su, S., Lee, et al  
2023; 20 (7): 1104-1113

- **Dichotomous regulation of striatal plasticity by dynorphin.** *Molecular psychiatry*  
Yang, R., Tuan, R. R., Hwang, F., Bloodgood, D. W., Kong, D., Ding, J. B.  
2022
- **Motor learning selectively strengthens cortical and striatal synapses of motor engram neurons.** *Neuron*  
Hwang, F., Roth, R. H., Wu, Y., Sun, Y., Kwon, D. K., Liu, Y., Ding, J. B.  
2022