

Stanford



Peter Wang

Postdoctoral Scholar, Bioengineering

Bio

PROFESSIONAL EDUCATION

- Bachelor of Arts, Cornell University , Neurobiology, Physics (2011)
- Doctor of Philosophy, Columbia University (2019)
- PhD, Columbia University , Neurobiology (2019)
- BA, Cornell University , Physics, Biology (2011)

STANFORD ADVISORS

- Karl Deisseroth, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Structural basis for ion selectivity in potassium-selective channelrhodopsins.** *Cell*

Tajima, S., Kim, Y. S., Fukuda, M., Jo, Y., Wang, P. Y., Paggi, J. M., Inoue, M., Byrne, E. F., Kishi, K. E., Nakamura, S., Ramakrishnan, C., Takaramoto, S., Nagata, et al
2023

- **All-optical physiology resolves a synaptic basis for behavioral timescale plasticity.** *Cell*

Fan, L. Z., Kim, D. K., Jennings, J. H., Tian, H., Wang, P. Y., Ramakrishnan, C., Randles, S., Sun, Y., Thadhani, E., Kim, Y. S., Quirin, S., Giocomo, L., Cohen, et al
2023

- **Structural basis for channel conduction in the pump-like channelrhodopsin ChRmine.** *Cell*

Kishi, K. E., Kim, Y. S., Fukuda, M., Inoue, M., Kusakizako, T., Wang, P. Y., Ramakrishnan, C., Byrne, E. F., Thadhani, E., Paggi, J. M., Matsui, T. E., Yamashita, K., Nagata, et al
1800

- **Evolving the olfactory system with machine learning** *NEURON*

Wang, P. Y., Sun, Y., Axel, R., Abbott, L. F., Yang, G.
2021; 109 (23): 3879-+

- **Transient and Persistent Representations of Odor Value in Prefrontal Cortex** *NEURON*

Wang, P. Y., Boboila, C., Chin, M., Higashi-Howard, A., Shamash, P., Wu, Z., Stein, N. P., Abbott, L. F., Axel, R.
2020; 108 (1): 209-+

- **Evaluating Attribution for Graph Neural Networks** *NeurIPS*

Sanchez-Lengeling, B., Wei, J., Lee, B., Reif, E., Wang, P., Qian, W. W., McCloskey, K., Colwell, L., Wiltschko, A.
2020

- **Emergence of functional and structural properties of the head direction system** *ICLR*

Cueva*, C. J., Wang*, P. Y., Chin*, M., Wei, X.
2019

- **Evolving the olfactory system** *NeurIPS 2019 Workshop Neuro AI*

Yang*, G. R., Wang*, P. Y., Sun, Y., Litwin-Kumar, A., Axel, R., Abbott, L.
2019