

# Stanford

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## Peter Wang

Postdoctoral Scholar, Bioengineering

### Bio

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#### PROFESSIONAL EDUCATION

- PhD, Columbia University , Neurobiology (2019)
- BA, Cornell University , Physics, Biology (2011)

#### STANFORD ADVISORS

- Karl Deisseroth, Postdoctoral Faculty Sponsor

### Publications

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#### 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., Takamoto, 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