Stanford

# Simon Haziza

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## Bio

### ACADEMIC APPOINTMENTS

- Basic Life Research Scientist, Biology

### LINKS

- https://pyramidal.stanford.edu/: https://pyramidal.stanford.edu/

## Publications

### PUBLICATIONS

- **Prefrontal gamma oscillations engage dynamic cell type-specific configurations to support flexible behavior.** *bioRxiv : the preprint server for biology*
  Phensy, A. J., Hagopian, L. L., Costello, C. M., Haziza, S., Ghenand, O., Zhang, Y., Schnitzer, M. J., Sohal, V. S.
  2025

- **Imaging high-frequency voltage dynamics in multiple neuron classes of behaving mammals.** *Cell*
  Haziza, S., Chrapkiewicz, R., Zhang, Y., Kruzhilin, V., Li, J., Li, J., Delamare, G., Swanson, R., Buzsaki, G., Kannan, M., Vasan, G., Lin, M. Z., Zeng, et al
  2025

- **DYRK1A Up-Regulation Specifically Impairs a Presynaptic Form of Long-Term Potentiation** *LIFE-BASEL*
  Lepagnol-Bestel, A., Haziza, S., Viard, J., Salin, P. A., Duchon, A., Herault, Y., Simonneau, M.
  2025; 15 (2)

- **Dual-polarity voltage imaging of the concurrent dynamics of multiple neuron types.** *Science (New York, N.Y.)*
  Kannan, M., Vasan, G., Haziza, S., Huang, C., Chrapkiewicz, R., Luo, J., Cardin, J. A., Schnitzer, M. J., Pieribone, V. A.
  2022; 378 (6619): eabm8797

- **Fast, in vivo voltage imaging using a red fluorescent indicator.** *Nature methods*
  Kannan, M., Vasan, G., Huang, C., Haziza, S., Li, J. Z., Inan, H., Schnitzer, M. J., Pieribone, V. A.
  2018

- **Fluorescent nanodiamond tracking reveals intraneuronal transport abnormalities induced by brain-disease-related genetic risk factors** *NATURE NANOTECHNOLOGY*
  Haziza, S., Mohan, N., Loe-Mie, Y., Lepagnol-Bestel, A., Massou, S., Adam, M., Le, X., Viard, J., Plancon, C., Daudin, R., Koebel, P., Dorard, E., Rose, et al
  2017; 12 (4): 322–28

- **Single particle tracking of fluorescent nanodiamonds in cells and organisms** *CURRENT OPINION IN SOLID STATE & MATERIALS SCIENCE*
  Hui, Y., Hsiao, W., Haziza, S., Simonneau, M., Treussart, F., Chang, H.
  2017; 21 (1): 35–42