



Sa Zhou

Postdoctoral Scholar, Neurosurgery

Bio

BIO

Sa Zhou, Ph.D., received her Ph.D. in Biomedical Engineering from The Hong Kong Polytechnic University. Her research focuses on person-centered cognitive and physical enhancement for aging-related neurological disorders - including stroke, Parkinson's disease (PD), and Alzheimer's disease (AD) - through the development of closed-loop brain-computer interface (BCI)-guided neuromodulation and rehabilitation robotics, as well as the investigation of brain structural and functional connectivity using multimodal neuroimaging and electrophysiology.

PROFESSIONAL EDUCATION

- PhD, The Hong Kong Polytechnic University , Biomedical Engineering (2023)

STANFORD ADVISORS

- Peter Tass, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Personalized cognitive enhancement for older adults: An aging-friendly closed-loop human-machine interface framework.** *Ageing research reviews*
Zhou, S., Liu, Y., Turnbull, A., Tapparello, C., Adeli, E., Lin, F. V.
2025: 102877
- **Relationships between neuropsychiatric symptoms, subtypes of astrocyte activities, and brain pathologies in Alzheimer's disease and Parkinson's disease.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Li, O. Y., Shin, S., Zhou, S., Turnbull, A., Lin, F. V.
2025; 21 (5): e70242
- **Biomarkers.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Zhou, S., Lin, F. V.
2024; 20 Suppl 2: e088668
- **Profiles of brain topology for dual-functional stability in old age.** *GeroScience*
Zhou, S., Anthony, M., Adeli, E., Lin, F. V.
2024