

Stanford



Eun Young Choi, PhD

Instructor, Neurosurgery

Bio

ACADEMIC APPOINTMENTS

- Instructor, Neurosurgery

HONORS AND AWARDS

- PRARP Convergence Science Research Award, Department of Defense (2021-2024)
- Graduate Research Fellowship Program, National Science Foundation (2008-2011)

PROFESSIONAL EDUCATION

- PhD, Harvard University , Neuroscience (2013)
- BA, Columbia University , Biochemistry (2005)

Research & Scholarship

CLINICAL TRIALS

- Deep Brain Stimulation for the Treatment of Traumatic Brain Injury, Recruiting

Publications

PUBLICATIONS

- **Corticostriatal Projections of Macaque Area 44** *Cerebral Cortex Communications*
Korponay, C., Choi, E. Y., Haber, S. N.
2020; 1 (1): 1-11
- **Nonhuman primate meso-circuitry data: a translational tool to understand brain networks across species** *Brain Structure & Function*
Tang, W., Choi, E. Y., Heilbronner, S. R., Haber, S. N.
2020
- **Improved Vim targeting for focused ultrasound ablation treatment of essential tremor: A probabilistic and patient-specific approach** *Human Brain Mapping*
Su*, J. H., Choi*, E. Y., Tourdias, T., Saranathan, M., Halpern, C. H., Henderson, J. M., Pauly, K. B., Ghanouni, P., Rutt, B. K.
2020; 41 (17): 4769-4788
- **Fast, fully automated segmentation of thalamic nuclei from structural MRI.** *NeuroImage*
Su, J. H., Thomas, F. T., Kasoff, W. S., Tourdias, T., Choi, E. Y., Rutt, B. K., Saranathan, M.
2019
- **Circuits, Networks, and Neuropsychiatric Disease: Transitioning From Anatomy to Imaging.** *Biological psychiatry*
Haber, S. N., Tang, W. n., Choi, E. Y., Yendiki, A. n., Liu, H. n., Jbabdi, S. n., Versace, A. n., Phillips, M. n.

2019

- **Automated integrated system for stained neuron detection: An end-to-end framework with a high negative predictive rate.** *Computer methods and programs in biomedicine*
Yoon, J. S., Choi, E. Y., Saad, M. n., Choi, T. S.
2019; 180: 105028
- **Evidence for a Functional Hierarchy of Association Networks.** *Journal of cognitive neuroscience*
Choi, E. Y., Drayna, G. K., Badre, D. n.
2018: 1–17
- **Gene expression links functional networks across cortex and striatum.** *Nature communications*
Anderson, K. M., Krienen, F. M., Choi, E. Y., Reinen, J. M., Yeo, B. T., Holmes, A. J.
2018; 9 (1): 1428
- **How do cortico-striatal projections impact on downstream pallidal circuitry?** *Brain structure & function*
Heilbronner, S. R., Meyer, M. A., Choi, E. Y., Haber, S. N.
2018
- **Imaging the striatum in autism spectrum disorder.** *Autism Imaging and Devices.*
Di Martino, A., Choi, E. Y., Jones, R. M., Castellanos, F. X., Mukerji, A.
Taylor and Francis.2017
- **Combinatorial Inputs to the Ventral Striatum from the Temporal Cortex, Frontal Cortex, and Amygdala: Implications for Segmenting the Striatum.** *eNeuro*
Choi, E. Y., Ding, S. L., Haber, S. N.
2017; 4 (6)
- **Convergence of prefrontal and parietal anatomical projections in a connectional hub in the striatum.** *NeuroImage*
Choi, E. Y., Tanimura, Y. n., Vage, P. R., Yates, E. H., Haber, S. N.
2016
- **The Human Ortholog of Acid-Sensing Ion Channel Gene ASIC1a Is Associated With Panic Disorder and Amygdala Structure and Function** *BIOLOGICAL PSYCHIATRY*
Smoller, J. W., Gallagher, P. J., Duncan, L. E., McGrath, L. M., Haddad, S. A., Holmes, A. J., Wolf, A. B., Hilker, S., Block, S. R., Weill, S., Young, S., Choi, E. Y., Rosenbaum, et al
2014; 76 (11): 902-910
- **The organization of the human striatum estimated by intrinsic functional connectivity** *JOURNAL OF NEUROPHYSIOLOGY*
Choi, E. Y., Yeo, B. T., Buckner, R. L.
2012; 108 (8): 2242-2263
- **Regulation of NMDA receptor trafficking by amyloid-beta** *NATURE NEUROSCIENCE*
Snyder, E. M., Nong, Y., Almeida, C. G., Paul, S., Moran, T., Choi, E. Y., Nairn, A. C., Salter, M. W., Lombroso, P. J., Gouras, G. K., Greengard, P.
2005; 8 (8): 1051-1058