



Nicholas Branigan

Casual - Non-Exempt, Psych/Major Laboratories and Clinical & Translational Neurosciences Incubator

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BIO

My research interests are at the intersection of neuroscience, statistics, and machine learning. In my current work, I develop and apply state-space models and drift-diffusion models to study large-scale brain networks with human fMRI and rodent fiber photometry.

EDUCATION AND CERTIFICATIONS

- M.S., Stanford University , Statistics (2022)
- B.A., Stanford University , Economics (2020)

Publications

PUBLICATIONS

- **Nonergodicity and Simpson's paradox in neurocognitive dynamics of cognitive control.** *Nature communications*
Mistry, P. K., Branigan, N. K., Gao, Z., Cai, W., Menon, V.
2026; 17 (1)
- **Space wandering in the rodent default mode network.** *Proceedings of the National Academy of Sciences of the United States of America*
Nghiem, T. E., Lee, B., Chao, T. H., Branigan, N. K., Mistry, P. K., Shih, Y. I., Menon, V.
2024; 121 (15): e2315167121
- **Nonergodicity and Simpson's paradox in neurocognitive dynamics of cognitive control** *bioRxiv*
Mistry, P. K., Branigan, N. K., Gao, Z., Cai, W., Menon, V.
2024
- **Computational modeling of proactive, reactive, and attentional dynamics in cognitive control** *bioRxiv*
Mistry, P. K., Warren, S. L., Branigan, N. K., Cai, W., Menon, V.
2024