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Bio

STANFORD ADVISORS

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Publications

PUBLICATIONS

- **Reduced temporal and spatial stability of neural activity patterns predict cognitive control deficits in children with ADHD.** *bioRxiv : the preprint server for biology*
Gao, Z., Duberg, K., Warren, S. L., Zheng, L., Hinshaw, S. P., Menon, V., Cai, W.
2024
- **Increased Temporal and Spatial Variability of Trial-Evoked Brain Responses During Dynamic Inhibitory Control in Children With ADHD**
Gao, Z., Zheng, L., Huynh, H., Kammer, E., Menon, V., Cai, W.
ELSEVIER SCIENCE INC.2024: S133
- **Hippocampal contributions to novel spatial learning are both age-related and age-invariant.** *Proceedings of the National Academy of Sciences of the United States of America*
Zheng, L., Gao, Z., Doner, S., Oyao, A., Forloines, M., Grilli, M. D., Barnes, C. A., Ekstrom, A. D.
2023; 120 (50): e2307884120
- **Creativity in verbal associations is linked to semantic control.** *Cerebral cortex (New York, N.Y. : 1991)*
Krieger-Redwood, K., Steward, A., Gao, Z., Wang, X., Halai, A., Smallwood, J., Jefferies, E.
2023; 33 (9): 5135-5147
- **Context free and context-dependent conceptual representation in the brain.** *Cerebral cortex (New York, N.Y. : 1991)*
Gao, Z., Zheng, L., Gouws, A., Krieger-Redwood, K., Wang, X., Varga, D., Smallwood, J., Jefferies, E.
2022; 33 (1): 152-166
- **Flexing the principal gradient of the cerebral cortex to suit changing semantic task demands.** *eLife*
Gao, Z., Zheng, L., Krieger-Redwood, K., Halai, A., Margulies, D. S., Smallwood, J., Jefferies, E.
2022; 11
- **A tale of two gradients: differences between the left and right hemispheres predict semantic cognition.** *Brain structure & function*
Gonzalez Alam, T. R., Mckeown, B. L., Gao, Z., Bernhardt, B., Vos de Wael, R., Margulies, D. S., Smallwood, J., Jefferies, E.
2022; 227 (2): 631-654
- **Partially overlapping spatial environments trigger reinstatement in hippocampus and schema representations in prefrontal cortex.** *Nature communications*
Zheng, L., Gao, Z., McAvan, A. S., Isham, E. A., Ekstrom, A. D.
2021; 12 (1): 6231
- **Distinct and common neural coding of semantic and non-semantic control demands.** *NeuroImage*
Gao, Z., Zheng, L., Chiou, R., Gouws, A., Krieger-Redwood, K., Wang, X., Varga, D., Ralph, M. A., Smallwood, J., Jefferies, E.
2021; 236: 118230
- **Both Default and Multiple-Demand Regions Represent Semantic Goal Information.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*

Wang, X., Gao, Z., Smallwood, J., Jefferies, E.

2021; 41 (16): 3679-3691

- **Neural Activity Is Dynamically Modulated by Memory Load During the Maintenance of Spatial Objects.** *Frontiers in psychology*

Pan, Y., Tan, Z., Gao, Z., Li, Y., Wang, L.

2018; 9: 1071

- **Reduced Fidelity of Neural Representation Underlies Episodic Memory Decline in Normal Aging.** *Cerebral cortex (New York, N.Y. : 1991)*

Zheng, L., Gao, Z., Xiao, X., Ye, Z., Chen, C., Xue, G.

2017: 1-14