

Stanford



Anthony Wagner

Lucie Stern Professor in the Social Sciences
Psychology

Bio

ACADEMIC APPOINTMENTS

- Professor, Psychology
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Deputy Director, Stanford Wu Tsai Neurosciences Institute, (2021- present)
- Chair, Department of Psychology, (2018-2021)
- Director, Stanford Memory Laboratory, (2003- present)
- Professor, Department of Psychology, (2003- present)

PROGRAM AFFILIATIONS

- Symbolic Systems Program

PROFESSIONAL EDUCATION

- PhD, Stanford University , Psychology (Cog Neuroscience) (1997)

LINKS

- Stanford Memory Laboratory: <http://memorylab.stanford.edu/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Cognitive neuroscience of memory and cognitive/executive control in young and older adults. Research interests include encoding and retrieval mechanisms; interactions between declarative, nondeclarative, and working memory; forms of cognitive control; neurocognitive aging; functional organization of prefrontal cortex, parietal cortex, and the medial temporal lobe; assessed by functional MRI, scalp and intracranial EEG, and transcranial magnetic stimulation

Teaching

COURSES

2023-24

- Advanced Seminar on Memory: PSYCH 169 (Aut)

- Cognitive and Neuroscience Friday Seminar: PSYCH 246 (Aut, Win, Spr)
- Introduction to Learning and Memory: PSYCH 45 (Spr)
- Models and Mechanisms of Memory: PSYCH 226 (Win)

2022-23

- Advanced Seminar on Memory: PSYCH 169 (Aut)
- Cognitive and Neuroscience Friday Seminar: PSYCH 246 (Aut, Win, Spr)
- Introduction to Learning and Memory: PSYCH 45 (Spr)
- Models and Mechanisms of Memory: PSYCH 226 (Win)

2021-22

- Cognitive and Neuroscience Friday Seminar: PSYCH 246 (Aut, Win, Spr)
- Current Debates in Learning and Memory: PSYCH 266 (Win)

2020-21

- Cognitive and Neuroscience Friday Seminar: PSYCH 246 (Aut, Win, Spr)
- Professional Seminar for First-Year Ph.D. Graduate Students: PSYCH 207 (Aut)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Alex Durango

Postdoctoral Faculty Sponsor

Subbulakshmi S, Jintao Sheng, Tammy Tran, Haopei Yang

Doctoral Dissertation Advisor (AC)

Douglas Miller

Doctoral (Program)

Shawn Schwartz, Alice Xue

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Neurosciences (Phd Program)

Publications

PUBLICATIONS

- **Representational integration and differentiation in the human hippocampus following goal-directed navigation.** *eLife*
Fernandez, C., Jiang, J., Wang, S., Choi, H. L., Wagner, A. D.
2023; 12
- **Readiness to remember: predicting variability in episodic memory.** *Trends in cognitive sciences*
Madore, K. P., Wagner, A. D.
2022
- **When the ventral visual stream is not enough: A deep learning account of medial temporal lobe involvement in perception.** *Neuron*
Bonnen, T., Yamins, D. L., Wagner, A. D.
2021
- **Memory failure predicted by attention lapsing and media multitasking.** *Nature*
Madore, K. P., Khazenzon, A. M., Backes, C. W., Jiang, J., Uncapher, M. R., Norcia, A. M., Wagner, A. D.

2020

- **Prefrontal reinstatement of contextual task demand is predicted by separable hippocampal patterns.** *Nature communications*
Jiang, J., Wang, S., Guo, W., Fernandez, C., Wagner, A. D.
2020; 11 (1): 2053
- **Hippocampal and cortical mechanisms at retrieval explain variability in episodic remembering in older adults.** *eLife*
Trelle, A. N., Carr, V. A., Guerin, S. A., Thieu, M. K., Jayakumar, M. n., Guo, W. n., Nadiadwala, A. n., Corso, N. K., Hunt, M. P., Litovsky, C. P., Tanner, N. J., Deutsch, G. K., Bernstein, et al
2020; 9
- **Stress Disrupts Human Hippocampal-Prefrontal Function during Prospective Spatial Navigation and Hinders Flexible Behavior.** *Current biology : CB*
Brown, T. I., Gagnon, S. A., Wagner, A. D.
2020
- **Stress Impairs Episodic Retrieval by Disrupting Hippocampal and Cortical Mechanisms of Remembering** *CEREBRAL CORTEX*
Gagnon, S. A., Waskom, M. L., Brown, T. I., Wagner, A. D.
2019; 29 (7): 2947–64
- **Hippocampal pattern separation supports reinforcement learning.** *Nature communications*
Ballard, I. C., Wagner, A. D., McClure, S. M.
2019; 10 (1): 1073
- **Minds and brains of media multitaskers: Current findings and future directions.** *Proceedings of the National Academy of Sciences of the United States of America*
Uncapher, M. R., Wagner, A. D.
2018; 115 (40): 9889–96
- **Individual differences in associative memory among older adults explained by hippocampal subfield structure and function** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Carr, V. A., Bernstein, J. D., Favila, S. E., Rutt, B. K., Kerchner, G. A., Wagner, A. D.
2017; 114 (45): 12075–80
- **Distributed representation of context by intrinsic subnetworks in prefrontal cortex.** *Proceedings of the National Academy of Sciences of the United States of America*
Waskom, M. L., Wagner, A. D.
2017; 114 (8): 2030-2035
- **Prospective representation of navigational goals in the human hippocampus.** *Science*
Brown, T. I., Carr, V. A., LaRocque, K. F., Favila, S. E., Gordon, A. M., Bowles, B., Bailenson, J. N., Wagner, A. D.
2016; 352 (6291): 1323-1326
- **Electrocorticography reveals the temporal dynamics of posterior parietal cortical activity during recognition memory decisions** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Gonzalez, A., Hutchinson, J. B., Uncapher, M. R., Chen, J., LaRocque, K. F., Foster, B. L., Rangarajan, V., Parvizi, J., Wagner, A. D.
2015; 112 (35): 11066-11071
- **Cortical Reinstatement Mediates the Relationship Between Content-Specific Encoding Activity and Subsequent Recollection Decisions** *CEREBRAL CORTEX*
Gordon, A. M., Rissman, J., Kiani, R., Wagner, A. D.
2014; 24 (12): 3350-3364
- **Frontoparietal representations of task context support the flexible control of goal-directed cognition.** *journal of neuroscience*
Waskom, M. L., Kumaran, D., Gordon, A. M., Rissman, J., Wagner, A. D.
2014; 34 (32): 10743-10755
- **Global Similarity and Pattern Separation in the Human Medial Temporal Lobe Predict Subsequent Memory** *JOURNAL OF NEUROSCIENCE*
LaRocque, K. F., Smith, M. E., Carr, V. A., Witthoft, N., Grill-Spector, K., Wagner, A. D.
2013; 33 (13): 5466-5474
- **Distributed Representations in Memory: Insights from Functional Brain Imaging** *ANNUAL REVIEW OF PSYCHOLOGY, VOL 63*

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- Rissman, J., Wagner, A. D.
2012; 63: 101-128
- **Fidelity of neural reactivation reveals competition between memories** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Kuhl, B. A., Rissman, J., Chun, M. M., Wagner, A. D.
2011; 108 (14): 5903-5908
 - **A Roadmap to Brain Mapping: Toward a Functional Map of Human Parietal Cortex** *NEURON*
Uncapher, M. R., Hutchinson, J. B., Wagner, A. D.
2010; 67 (1): 5-8
 - **Detecting individual memories through the neural decoding of memory states and past experience** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Rissman, J., Greely, H. T., Wagner, A. D.
2010; 107 (21): 9849-9854
 - **Resistance to forgetting associated with hippocampus-mediated reactivation during new learning** *NATURE NEUROSCIENCE*
Kuhl, B. A., Shah, A. T., DuBrow, S., Wagner, A. D.
2010; 13 (4): 501-U128
 - **Imaging the Human Medial Temporal Lobe with High-Resolution fMRI** *NEURON*
Carr, V. A., Rissman, J., Wagner, A. D.
2010; 65 (3): 298-308
 - **Cognitive control in media multitaskers** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Ophir, E., Nass, C., Wagner, A. D.
2009; 106 (37): 15583-15587
 - **Integrating Memories in the Human Brain: Hippocampal-Midbrain Encoding of Overlapping Events** *NEURON*
Shohamy, D., Wagner, A. D.
2008; 60 (2): 378-389
 - **Decreased demands on cognitive control reveal the neural processing benefits of forgetting** *NATURE NEUROSCIENCE*
Kuhl, B. A., Dudukovic, N. M., Kahn, I., Wagner, A. D.
2007; 10 (7): 908-914
 - **Left ventrolateral prefrontal cortex and the cognitive control of memory** *NEUROPSYCHOLOGIA*
Badre, D., Wagner, A. D.
2007; 45 (13): 2883-2901
 - **Computational and neurobiological mechanisms underlying cognitive flexibility** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Badre, D., Wagner, A. D.
2006; 103 (18): 7186-7191
 - **Dissociable controlled retrieval and generalized selection mechanisms in ventrolateral prefrontal cortex** *NEURON*
Badre, D., Poldrack, R. A., Pare-Blagojev, E. J., Insler, R. Z., Wagner, A. D.
2005; 47 (6): 907-918
 - **Parietal lobe contributions to episodic memory retrieval** *TRENDS IN COGNITIVE SCIENCES*
Wagner, A. D., Shannon, B. J., Kahn, I., Buckner, R. L.
2005; 9 (9): 445-453
 - **Memory strength and repetition suppression: Multimodal imaging of medial temporal cortical contributions to recognition** *NEURON*
Gonsalves, B. D., Kahn, I., Curran, T., Norman, K. A., Wagner, A. D.
2005; 47 (5): 751-761
 - **Selection, integration, and conflict monitoring: Assessing the nature and generality of prefrontal cognitive control mechanisms** *NEURON*
Badre, D., Wagner, A. D.
2004; 41 (3): 473-487

- **Multiple routes to memory: Distinct medial temporal lobe processes build item and source memories** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Davachi, L., Mitchell, J. P., Wagner, A. D.
2003; 100 (4): 2157-2162
- **Executive control during episodic retrieval: Multiple prefrontal processes subserve source memory** *NEURON*
Dobbins, I. G., Foley, H., Schacter, D. L., Wagner, A. D.
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- **Observing the transformation of experience into memory** *TRENDS IN COGNITIVE SCIENCES*
Paller, K. A., Wagner, A. D.
2002; 6 (2): 93-102
- **Recovering meaning: Left prefrontal cortex guides controlled semantic retrieval** *NEURON*
Wagner, A. D., Pare-Blagoev, E. J., Clark, J., Poldrack, R. A.
2001; 31 (2): 329-338
- **Building memories: Remembering and forgetting of verbal experiences as predicted by brain activity** *SCIENCE*
Wagner, A. D., Schacter, D. L., Rotte, M., Koutstaal, W., Maril, A., Dale, A. M., Rosen, B. R., Buckner, R. L.
1998; 281 (5380): 1188-1191
- **Post-retrieval stress impairs subsequent memory depending on hippocampal memory trace reinstatement during reactivation.** *Science advances*
Heinbockel, H., Wagner, A. D., Schwabe, L.
2024; 10 (18): eadm7504
- **Comprehensive proteomics of CSF, plasma, and urine identify DDC and other biomarkers of early Parkinson's disease.** *Acta neuropathologica*
Rutledge, J., Lehallier, B., Zarifkar, P., Losada, P. M., Shahid-Besanti, M., Western, D., Gorijala, P., Ryman, S., Yutsis, M., Deutsch, G. K., Mormino, E., Trelle, A., Wagner, et al
2024; 147 (1): 52
- **Post-translational modifications linked to preclinical Alzheimer's disease-related pathological and cognitive changes.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Abiose, O., Rutledge, J., Moran-Losada, P., Belloy, M. E., Wilson, E. N., He, Z., Trelle, A. N., Channappa, D., Romero, A., Park, J., Yutsis, M. V., Sha, S. J., Andreasson, et al
2023
- **Organ aging signatures in the plasma proteome track health and disease.** *Nature*
Oh, H. S., Rutledge, J., Nachun, D., Pálóvics, R., Abiose, O., Moran-Losada, P., Channappa, D., Urey, D. Y., Kim, K., Sung, Y. J., Wang, L., Timsina, J., Western, et al
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- **A 3' UTR Deletion Is a Leading Candidate Causal Variant at the TMEM106B Locus Reducing Risk for FTLTD-TDP.** *medRxiv : the preprint server for health sciences*
Chemparathy, A., Le Guen, Y., Zeng, Y., Gorzynski, J., Jensen, T., Kasireddy, N., Talozzi, L., Belloy, M. E., Stewart, I., Gitler, A. D., Wagner, A. D., Mormino, E., Henderson, et al
2023
- **Neural Evidence for Advantaged Representation of First Items in Memory.** *NeuroImage*
Poker, G., Oren, N., Bezalel, V., Abecasis, D., Hendler, T., Fried, I., Wagner, A. D., Shapira-Lichter, I.
2023: 120239
- **Metrologically Traceable Quantification of 3 Apolipoprotein E Isoforms in Cerebrospinal Fluid.** *Clinical chemistry*
Huynh, H., Kuch, K., Orquillas, A., Forrest, K., Barahona-Carrillo, L., Keene, D., Henderson, V. W., Wagner, A. D., Poston, K. L., Montine, T. J., Lin, A., Tian, L., MacCoss, et al
2023
- **Cerebrospinal fluid immune dysregulation during healthy brain aging and cognitive impairment.** *Cell*
Piehl, N., van Olst, L., Ramakrishnan, A., Teregulova, V., Simonton, B., Zhang, Z., Tapp, E., Channappa, D., Oh, H., Losada, P. M., Rutledge, J., Trelle, A. N., Mormino, et al
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- **Performance of a fully-automated Lumipulse plasma phospho-tau181 assay for Alzheimer's disease.** *Alzheimer's research & therapy*
Wilson, E. N., Young, C. B., Ramos Benitez, J., Swarovski, M. S., Feinstein, I., Vandijck, M., Le Guen, Y., Kasireddy, N. M., Shahid, M., Corso, N. K., Wang, Q., Kennedy, G., Trelle, et al
2022; 14 (1): 172
- **Thalamic nuclei atrophy at high and heterogeneous rates during cognitively unimpaired human aging.** *NeuroImage*
Choi, E. Y., Tian, L., Su, J. H., Radovan, M. T., Tourdias, T., Tran, T. T., Trelle, A. N., Mormino, E., Wagner, A. D., Rutt, B. K.
2022: 119584
- **Encoding Contexts Are Incidentally Reinstated During Competitive Retrieval and Track the Temporal Dynamics of Memory Interference.** *Cerebral cortex (New York, N.Y. : 1991)*
Bramao, I., Jiang, J., Wagner, A. D., Johansson, M.
1800
- **Association of CSF Biomarkers with Hippocampal-dependent Memory in Preclinical Alzheimer Disease.** *Neurology*
Trelle, A. N., Carr, V. A., Wilson, E. N., Swarovski, M. S., Hunt, M. P., Toueg, T. N., Tran, T. T., Channappa, D. n., Corso, N. K., Thieu, M. K., Jayakumar, M. n., Nadiadwala, A. n., Guo, et al
2021
- **Visual Read Protocols for Clinicians Analyzing 18F-PI-2620 tau PET/MRI Images**
Koran, M., Shams, S., Adams, P., Toueg, T., Azevedo, C., Hall, J., Corso, N., Sha, S., Fredericks, C., Greicius, M., Wagner, A., Zaharchuk, G., Davidzon, et al
SOC NUCLEAR MEDICINE INC.2020
- **Temporal Dynamics of Memory-guided Cognitive Control and Generalization of Control via Overlapping Associative Memories.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
Jiang, J., Bramao, I., Khazenzon, A., Wang, S., Johansson, M., Wagner, A. D.
2020
- **Clonally expanded CD8 T cells patrol the cerebrospinal fluid in Alzheimer's disease.** *Nature*
Gate, D., Saligrama, N., Leventhal, O., Yang, A. C., Unger, M. S., Middeldorp, J., Chen, K., Lehallier, B., Channappa, D., De Los Santos, M. B., McBride, A., Pluvina, J., Elahi, et al
2020
- **Tau PET imaging with 18F-PI-2620 in aging and neurodegenerative diseases.** *European journal of nuclear medicine and molecular imaging*
Mormino, E. C., Toueg, T. N., Azevedo, C. n., Castillo, J. B., Guo, W. n., Nadiadwala, A. n., Corso, N. K., Hall, J. N., Fan, A. n., Trelle, A. N., Harrison, M. B., Hunt, M. P., Sha, et al
2020
- **Content tuning in the medial temporal lobe cortex: Voxels that perceive, retrieve.** *eNeuro*
Schultz, H., Tibon, R., LaRocque, K. F., Gagnon, S. A., Wagner, A. D., Staesina, B. P.
2019
- **Hippocampal CA1 subfield predicts episodic memory impairment in Parkinson's disease.** *NeuroImage. Clinical*
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2019; 23: 101824
- **Hippocampal CA1 subfield predicts episodic memory impairment in Parkinson's disease** *NEUROIMAGE-CLINICAL*
La, C., Linortner, P., Bernstein, J. D., Cruadhlaich, M., Fenesy, M., Deutsch, G. K., Rutt, B. K., Tian, L., Wagner, A. D., Zeineh, M., Kerchner, G. A., Poston, K. L.
2019; 23
- **Learned Spatial Schemas and Prospective Hippocampal Activity Support Navigation After One-Shot Learning** *FRONTIERS IN HUMAN NEUROSCIENCE*
van Kesteren, M. R., Brown, T. I., Wagner, A. D.
2018; 12
- **Learned Spatial Schemas and Prospective Hippocampal Activity Support Navigation After One-Shot Learning.** *Frontiers in human neuroscience*
van Kesteren, M. T., Brown, T. I., Wagner, A. D.
2018; 12: 486
- **Integrated externally and internally generated task predictions Jointly guide cognitive control in prefrontal cortex.** *eLife*

- Jiang, J., Wagner, A. D., Egner, T.
2018; 7
- **Stress Impairs Episodic Retrieval by Disrupting Hippocampal and Cortical Mechanisms of Remembering.** *Cerebral cortex (New York, N.Y. : 1991)*
Gagnon, S. A., Waskom, M. L., Brown, T. I., Wagner, A. D.
2018
 - **Differential Medial Temporal Lobe and Parietal Cortical Contributions to Real-world Autobiographical Episodic and Autobiographical Semantic Memory** *SCIENTIFIC REPORTS*
Brown, T. I., Rissman, J., Chow, T. E., Uncapher, M. R., Wagner, A. D.
2018; 8: 6190
 - **Memory, Numbers, and Action Decision in Human Posterior Parietal Cortex** *NEURON*
Parvizi, J., Wagner, A. D.
2018; 97 (1): 7–10
 - **Media Multitasking and Cognitive, Psychological, Neural, and Learning Differences** *PEDIATRICS*
Uncapher, M. R., Lin, L., Rosen, L. D., Kirkorian, H. L., Baron, N. S., Bailey, K., Cantor, J., Strayer, D. L., Parsons, T. D., Wagner, A. D.
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 - **Neural Correlates of Impaired Removal of Negative Information From Working Memory are Associated With Rumination and Reappraisal in Individuals Diagnosed With Major Depressive Disorder**
Davis, E., Uncapher, M., Camacho, M., Sacchet, M., Wagner, A., Gotlib, I.
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 - **Cognitive control, attention, and the other race effect in memory** *PLOS ONE*
Brown, T. I., Uncapher, M. R., Chow, T. E., Eberhardt, J. L., Wagner, A. D.
2017; 12 (3)
 - **Adaptive Engagement of Cognitive Control in Context-Dependent Decision Making** *CEREBRAL CORTEX*
Waskom, M. L., Frank, M. C., Wagner, A. D.
2017; 27 (2): 1270-1284
 - **Cognitive and neural consequences of memory suppression in major depressive disorder** *COGNITIVE AFFECTIVE & BEHAVIORAL NEUROSCIENCE*
Sacchet, M. D., Levy, B. J., Hamilton, J. P., Maksimovskiy, A., Hertel, P. T., Joormann, J., Anderson, M. C., Wagner, A. D., Gotlib, I. H.
2017; 17 (1): 77-93
 - **Cognitive and neural consequences of memory suppression in major depressive disorder.** *Cognitive, affective & behavioral neuroscience*
Sacchet, M. D., Levy, B. J., Hamilton, J. P., Maksimovskiy, A., Hertel, P. T., Joormann, J., Anderson, M. C., Wagner, A. D., Gotlib, I. H.
2016: -?
 - **Knowledge Acquisition during Exam Preparation Improves Memory and Modulates Memory Formation** *JOURNAL OF NEUROSCIENCE*
Brod, G., Lindenberger, U., Wagner, A. D., Shing, Y. L.
2016; 36 (31): 8103-8111
 - **Media multitasking and memory: Differences in working memory and long-term memory.** *Psychonomic bulletin & review*
Uncapher, M. R., K Thieu, M., Wagner, A. D.
2016; 23 (2): 483-490
 - **Decoding fMRI Signatures of Real-world Autobiographical Memory Retrieval** *JOURNAL OF COGNITIVE NEUROSCIENCE*
Rissman, J., Chow, T. E., Reggente, N., Wagner, A. D.
2016; 28 (4): 604-620
 - **Adaptive Engagement of Cognitive Control in Context-Dependent Decision Making.** *Cerebral cortex*
Waskom, M. L., Frank, M. C., Wagner, A. D.
2016
 - **Acute stress and episodic memory retrieval: neurobiological mechanisms and behavioral consequences** *YEAR IN COGNITIVE NEUROSCIENCE*
Gagnon, S. A., Wagner, A. D.
2016; 1369: 55-75

- **Interactions between Memory and New Learning: Insights from fMRI Multivoxel Pattern Analysis.** *Frontiers in systems neuroscience*
van Kesteren, M. T., Brown, T. I., Wagner, A. D.
2016; 10: 46-?
- **Electrocortigraphy reveals the temporal dynamics of posterior parietal cortical activity during recognition memory decisions.** *Proceedings of the National Academy of Sciences of the United States of America*
Gonzalez, A., Hutchinson, J. B., Uncapher, M. R., Chen, J., LaRocque, K. F., Foster, B. L., Rangarajan, V., Parvizi, J., Wagner, A. D.
2015; 112 (35): 11066-11071
- **Prediction strength modulates responses in human area CA1 to sequence violations** *JOURNAL OF NEUROPHYSIOLOGY*
Chen, J., Cook, P. A., Wagner, A. D.
2015; 114 (2): 1227-1238
- **Prediction strength modulates responses in human area CA1 to sequence violations.** *Journal of neurophysiology*
Chen, J., Cook, P. A., Wagner, A. D.
2015; 114 (2): 1227-38
- **Goal-Directed Modulation of Neural Memory Patterns: Implications for fMRI-Based Memory Detection** *JOURNAL OF NEUROSCIENCE*
Uncapher, M. R., Boyd-Meredith, J. T., Chow, T. E., Rissman, J., Wagner, A. D.
2015; 35 (22): 8531-8545
- **Goal-Directed Modulation of Neural Memory Patterns: Implications for fMRI-Based Memory Detection.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
Uncapher, M. R., Boyd-Meredith, J. T., Chow, T. E., Rissman, J., Wagner, A. D.
2015; 35 (22): 8531-45
- **Quantitative comparison of 21 protocols for labeling hippocampal subfields and parahippocampal subregions in in vivo MRI: Towards a harmonized segmentation protocol** *NEUROIMAGE*
Yushkevich, P. A., Amaral, R. S., Augustinack, J. C., Bender, A. R., Bernstein, J. D., Boccardi, M., Bocchetta, M., Burggren, A. C., Carr, V. A., Chakravarty, M. M., Chetelat, G., Daugherty, A. M., Davachi, et al
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- **Synaptic Proteins in the Hippocampus Indicative of Increased Neuronal Activity in CA3 in Schizophrenia** *AMERICAN JOURNAL OF PSYCHIATRY*
Li, W., Ghose, S., Gleason, K., Begovic, A., Perez, J., Bartko, J., Russo, S., Wagner, A. D., Selemon, L., Tamminga, C. A.
2015; 172 (4): 373-382
- **Noninvasive Functional and Anatomical Imaging of the Human Medial Temporal Lobe** *COLD SPRING HARBOR PERSPECTIVES IN BIOLOGY*
Brown, T. I., Staresina, B. P., Wagner, A. D.
2015; 7 (4)
- **Noninvasive functional and anatomical imaging of the human medial temporal lobe.** *Cold Spring Harbor perspectives in biology*
Brown, T. I., Staresina, B. P., Wagner, A. D.
2015; 7 (4)
- **PATTERN SEPARATION DEFICIT IN SCHIZOPHRENIA: BEHAVIOUR AND IMAGING FINDINGS**
Das, T., Ivleva, E. I., Stark, C. L., Wagner, A. D., Tamminga, C. A.
OXFORD UNIV PRESS.2015: S221
- **Increased functional connectivity between dorsal posterior parietal and ventral occipitotemporal cortex during uncertain memory decisions.** *Neurobiology of learning and memory*
Hutchinson, J. B., Uncapher, M. R., Wagner, A. D.
2015; 117: 71-83
- **Loss of pattern separation performance in schizophrenia suggests dentate gyrus dysfunction** *SCHIZOPHRENIA RESEARCH*
Das, T., Ivleva, E. I., Wagner, A. D., Stark, C. E., Tamminga, C. A.
2014; 159 (1): 193-197
- **What do differences between multi-voxel and univariate analysis mean? How subject-, voxel-, and trial-level variance impact fMRI analysis** *NEUROIMAGE*
Davis, T., LaRocque, K. F., Mumford, J. A., Norman, K. A., Wagner, A. D., Poldrack, R. A.

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- **What do differences between multi-voxel and univariate analysis mean? How subject-, voxel-, and trial-level variance impact fMRI analysis.** *NeuroImage*
Davis, T., LaRocque, K. F., Mumford, J. A., Norman, K. A., Wagner, A. D., Poldrack, R. A.
2014; 97: 271-283
- **Comments of The MacArthur Foundation Research Network on Law and Neuroscience to The Presidential Commission for the Study of Bioethical Issues of the Department of Health and Human Services Comments on the Ethical Considerations of Neuroscience Research and the Application of Neuroscience Research Findings** *JOURNAL OF LAW AND THE BIOSCIENCES*
Jones, O. D., Bonnie, R. J., Casey, B. J., Davis, A., Faigman, D. L., Hoffman, M., Montague, R., Morse, S. J., Raichle, M. E., Richeson, J. A., Scott, E., Steinberg, L., Taylor-Thompson, et al
2014; 1 (2): 228-36
- **Law and neuroscience: recommendations submitted to the President's Bioethics Commission** *JOURNAL OF LAW AND THE BIOSCIENCES*
Jones, O. D., Bonnie, R. J., Casey, B. J., Davis, A., Faigman, D. L., Hoffman, M., Montague, R., Morse, S. J., Raichle, M. E., Richeson, J. A., Scott, E., Steinberg, L., Taylor-Thompson, et al
2014; 1 (2): 224-27
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