

Timothy D Verstynen

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

5,923
citations

94433

37
h-index

85541

71
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117
all docs

117
docs citations

117
times ranked

8031
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Multivariate Brain Activity while Viewing and Reappraising Affective Scenes Does Not Predict the Multiyear Progression of Preclinical Atherosclerosis in Otherwise Healthy Midlife Adults. <i>Affective Science</i> , 2022, 3, 406-424. | 2.6 | 5 |
| 2 | Dissociable use-dependent processes for volitional goal-directed reaching. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, 20220415. | 2.6 | 9 |
| 3 | Identifying control ensembles for information processing within the cortico-basal ganglia-thalamic circuit. <i>PLoS Computational Biology</i> , 2022, 18, e1010255. | 3.2 | 2 |
| 4 | The credit assignment problem in cortico-basal ganglia-thalamic networks: A review, a problem and a possible solution. <i>European Journal of Neuroscience</i> , 2021, 53, 2234-2253. | 2.6 | 14 |
| 5 | The influence of negative mood on solitary drinking preference: An experiment with young adult solitary drinkers. <i>PLoS ONE</i> , 2021, 16, e0247202. | 2.5 | 4 |
| 6 | Opposing relationships of childhood threat and deprivation with stria terminalis white matter. <i>Human Brain Mapping</i> , 2021, 42, 2445-2460. | 3.6 | 15 |
| 7 | Integrating across neuroimaging modalities boosts prediction accuracy of cognitive ability. <i>PLoS Computational Biology</i> , 2021, 17, e1008347. | 3.2 | 36 |
| 8 | Dynamic decision policy reconfiguration under outcome uncertainty. <i>ELife</i> , 2021, 10, . | 6.0 | 4 |
| 9 | Corticostriatal synaptic weight evolution in a two-alternative forced choice task: a computational study. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 82, 105048. | 3.3 | 11 |
| 10 | Adiposity covaries with signatures of asymmetric feedback learning during adaptive decisions. <i>Social Cognitive and Affective Neuroscience</i> , 2020, 15, 1145-1156. | 3.0 | 2 |
| 11 | Contextual framing of loss impacts harm avoidance during risky spatial decisions. <i>Journal of Behavioral Decision Making</i> , 2020, 33, 657-670. | 1.7 | 0 |
| 12 | Affective brain patterns as multivariate neural correlates of cardiovascular disease risk. <i>Social Cognitive and Affective Neuroscience</i> , 2020, 15, 1034-1045. | 3.0 | 20 |
| 13 | Investigating Gains in Neurocognition in an Intervention Trial of Exercise (IGNITE): Protocol. <i>Contemporary Clinical Trials</i> , 2019, 85, 105832. | 1.8 | 26 |
| 14 | Multi-scale detection of hierarchical community architecture in structural and functional brain networks. <i>PLoS ONE</i> , 2019, 14, e0215520. | 2.5 | 49 |
| 15 | Reward-driven changes in striatal pathway competition shape evidence evaluation in decision-making. <i>PLoS Computational Biology</i> , 2019, 15, e1006998. | 3.2 | 30 |
| 16 | Cognitive chimera states in human brain networks. <i>Science Advances</i> , 2019, 5, eaau8535. | 10.3 | 106 |
| 17 | Binding During Sequence Learning Does Not Alter Cortical Representations of Individual Actions. <i>Journal of Neuroscience</i> , 2019, 39, 6968-6977. | 3.6 | 13 |
| 18 | Errors in Action Timing and Inhibition Facilitate Learning by Tuning Distinct Mechanisms in the Underlying Decision Process. <i>Journal of Neuroscience</i> , 2019, 39, 2251-2264. | 3.6 | 11 |

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|----|--|------|-----------|
| 19 | Local connectome phenotypes predict social, health, and cognitive factors. <i>Network Neuroscience</i> , 2018, 2, 86-105. | 2.6 | 22 |
| 20 | Sensory uncertainty impacts avoidance during spatial decisions. <i>Experimental Brain Research</i> , 2018, 236, 529-537. | 1.5 | 6 |
| 21 | Developmental Changes in the Integration of Affective and Cognitive Corticostriatal Pathways are Associated with Reward-Driven Behavior. <i>Cerebral Cortex</i> , 2018, 28, 2834-2845. | 2.9 | 20 |
| 22 | Predicting and binding: interacting algorithms supporting the consolidation of sequential motor skills. <i>Current Opinion in Behavioral Sciences</i> , 2018, 20, 98-103. | 3.9 | 12 |
| 23 | Local White Matter Architecture Defines Functional Brain Dynamics. , 2018, , . | | 0 |
| 24 | Population-averaged atlas of the macroscale human structural connectome and its network topology. <i>NeuroImage</i> , 2018, 178, 57-68. | 4.2 | 409 |
| 25 | White matter pathways as both a target and mediator of health behaviors. <i>Annals of the New York Academy of Sciences</i> , 2018, 1428, 71-88. | 3.8 | 7 |
| 26 | Fusing Multiple Neuroimaging Modalities to Assess Group Differences in Perceptionâ€“Action Coupling. <i>Proceedings of the IEEE</i> , 2017, 105, 83-100. | 21.3 | 15 |
| 27 | A Brain Phenotype for Stressorâ€“Evoked Blood Pressure Reactivity. <i>Journal of the American Heart Association</i> , 2017, 6, . | 3.7 | 53 |
| 28 | Differentiating Visual from Response Sequencing during Long-term Skill Learning. <i>Journal of Cognitive Neuroscience</i> , 2017, 29, 125-136. | 2.3 | 3 |
| 29 | Believer-Skeptic Meets Actor-Critic: Rethinking the Role of Basal Ganglia Pathways during Decision-Making and Reinforcement Learning. <i>Frontiers in Neuroscience</i> , 2016, 10, 106. | 2.8 | 34 |
| 30 | Diffusion Capillary Phantom vs. Human Data: Outcomes for Reconstruction Methods Depend on Evaluation Medium. <i>Frontiers in Neuroscience</i> , 2016, 10, 407. | 2.8 | 9 |
| 31 | Converting Multi-Shell and Diffusion Spectrum Imaging to High Angular Resolution Diffusion Imaging. <i>Frontiers in Neuroscience</i> , 2016, 10, 418. | 2.8 | 12 |
| 32 | Quantifying Differences and Similarities in Whole-Brain White Matter Architecture Using Local Connectome Fingerprints. <i>PLoS Computational Biology</i> , 2016, 12, e1005203. | 3.2 | 118 |
| 33 | Organization of cortico-cortical pathways supporting memory retrieval across subregions of the left ventrolateral prefrontal cortex. <i>Journal of Neurophysiology</i> , 2016, 116, 920-937. | 1.8 | 19 |
| 34 | Brain dynamics of postâ€“task resting state are influenced by expertise: Insights from baseball players. <i>Human Brain Mapping</i> , 2016, 37, 4454-4471. | 3.6 | 40 |
| 35 | Adolescent brain development and depression: A case for the importance of connectivity of the anterior cingulate cortex. <i>Neuroscience and Biobehavioral Reviews</i> , 2016, 70, 271-287. | 6.1 | 88 |
| 36 | Connectometry: A statistical approach harnessing the analytical potential of the local connectome. <i>NeuroImage</i> , 2016, 125, 162-171. | 4.2 | 175 |

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|----|---|-----|-----------|
| 37 | White matter microstructure mediates the relationship between cardiorespiratory fitness and spatial working memory in older adults. <i>NeuroImage</i> , 2016, 131, 91-101. | 4.2 | 110 |
| 38 | Social network diversity and white matter microstructural integrity in humans. <i>Social Cognitive and Affective Neuroscience</i> , 2015, 10, 1169-1176. | 3.0 | 48 |
| 39 | Converging Structural and Functional Connectivity of Orbitofrontal, Dorsolateral Prefrontal, and Posterior Parietal Cortex in the Human Striatum. <i>Journal of Neuroscience</i> , 2015, 35, 3865-3878. | 3.6 | 195 |
| 40 | In vivo characterization of the connectivity and subcomponents of the human globus pallidus. <i>NeuroImage</i> , 2015, 120, 382-393. | 4.2 | 11 |
| 41 | Brain volume and white matter in youth with type 2 diabetes compared to obese and normal weight, non-diabetic peers: A pilot study. <i>International Journal of Developmental Neuroscience</i> , 2015, 46, 88-91. | 1.6 | 28 |
| 42 | Asymmetry, connectivity, and segmentation of the arcuate fascicle in the human brain. <i>Brain Structure and Function</i> , 2015, 220, 1665-1680. | 2.3 | 152 |
| 43 | Competing basal ganglia pathways determine the difference between stopping and deciding not to go. <i>ELife</i> , 2015, 4, e08723. | 6.0 | 72 |
| 44 | Mapping Topographic Structure in White Matter Pathways with Level Set Trees. <i>PLoS ONE</i> , 2014, 9, e93344. | 2.5 | 1 |
| 45 | Health Neuroscience. <i>Current Directions in Psychological Science</i> , 2014, 23, 446-453. | 5.3 | 50 |
| 46 | The organization and dynamics of corticostriatal pathways link the medial orbitofrontal cortex to future behavioral responses. <i>Journal of Neurophysiology</i> , 2014, 112, 2457-2469. | 1.8 | 25 |
| 47 | Competing physiological pathways link individual differences in weight and abdominal adiposity to white matter microstructure. <i>NeuroImage</i> , 2013, 79, 129-137. | 4.2 | 73 |
| 48 | Inflammatory Pathways Link Socioeconomic Inequalities to White Matter Architecture. <i>Cerebral Cortex</i> , 2013, 23, 2058-2071. | 2.9 | 101 |
| 49 | Rethinking the Role of the Middle Longitudinal Fascicle in Language and Auditory Pathways. <i>Cerebral Cortex</i> , 2013, 23, 2347-2356. | 2.9 | 124 |
| 50 | Explicating the Face Perception Network with White Matter Connectivity. <i>PLoS ONE</i> , 2013, 8, e61611. | 2.5 | 124 |
| 51 | Deterministic Diffusion Fiber Tracking Improved by Quantitative Anisotropy. <i>PLoS ONE</i> , 2013, 8, e80713. | 2.5 | 812 |
| 52 | Cerebral Blood Flow Links Insulin Resistance and Baroreflex Sensitivity. <i>PLoS ONE</i> , 2013, 8, e83288. | 2.5 | 18 |
| 53 | Microstructural organizational patterns in the human corticostriatal system. <i>Journal of Neurophysiology</i> , 2012, 107, 2984-2995. | 1.8 | 81 |
| 54 | Visuotopic Cortical Connectivity Underlying Attention Revealed with White-Matter Tractography. <i>Journal of Neuroscience</i> , 2012, 32, 2773-2782. | 3.6 | 93 |

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|----|---|-----|-----------|
| 55 | High-definition fiber tracking for assessment of neurological deficit in a case of traumatic brain injury: finding, visualizing, and interpreting small sites of damage. <i>Journal of Neurosurgery</i> , 2012, 116, 1062-1069. | 1.6 | 42 |
| 56 | Caudate Nucleus Volume Mediates the Link between Cardiorespiratory Fitness and Cognitive Flexibility in Older Adults. <i>Journal of Aging Research</i> , 2012, 2012, 1-11. | 0.9 | 85 |
| 57 | High-Definition Fiber Tractography of the Human Brain. <i>Neurosurgery</i> , 2012, 71, 430-453. | 1.1 | 213 |
| 58 | Increased Body Mass Index Is Associated With a Global and Distributed Decrease in White Matter Microstructural Integrity. <i>Psychosomatic Medicine</i> , 2012, 74, 682-690. | 2.0 | 111 |
| 59 | In vivo quantification of global connectivity in the human corpus callosum. <i>NeuroImage</i> , 2012, 59, 1988-1996. | 4.2 | 80 |
| 60 | Dynamic Sensorimotor Planning during Long-Term Sequence Learning: The Role of Variability, Response Chunking and Planning Errors. <i>PLoS ONE</i> , 2012, 7, e47336. | 2.5 | 29 |
| 61 | Using pulse oximetry to account for high and low frequency physiological artifacts in the BOLD signal. <i>NeuroImage</i> , 2011, 55, 1633-1644. | 4.2 | 60 |
| 62 | In Vivo Mapping of Microstructural Somatotopies in the Human Corticospinal Pathways. <i>Journal of Neurophysiology</i> , 2011, 105, 336-346. | 1.8 | 62 |
| 63 | Network Dynamics Mediating Ipsilateral Motor Cortex Activity during Unimanual Actions. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 2468-2480. | 2.3 | 49 |
| 64 | How Each Movement Changes the Next: An Experimental and Theoretical Study of Fast Adaptive Priors in Reaching. <i>Journal of Neuroscience</i> , 2011, 31, 10050-10059. | 3.6 | 194 |
| 65 | Evidence of a Novel Somatopic Map in the Human Neocerebellum During Complex Actions. <i>Journal of Neurophysiology</i> , 2010, 103, 3330-3336. | 1.8 | 134 |
| 66 | Transcranial magnetic stimulation of posterior parietal cortex affects decisions of hand choice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17751-17756. | 7.1 | 101 |
| 67 | Advances in functional imaging of the human cerebellum. <i>Current Opinion in Neurology</i> , 2010, 23, 382-387. | 3.6 | 69 |
| 68 | Voluntary and involuntary attention affect face discrimination differently. <i>Neuropsychologia</i> , 2008, 46, 1032-1040. | 1.6 | 32 |
| 69 | Prefrontal and parietal contributions to refreshing: An rTMS study. <i>NeuroImage</i> , 2008, 39, 436-440. | 4.2 | 16 |
| 70 | Attenuating illusory binding with TMS of the right parietal cortex. <i>NeuroImage</i> , 2007, 35, 1247-1255. | 4.2 | 28 |
| 71 | Cerebellar activation during discrete and not continuous timed movements: An fMRI study. <i>NeuroImage</i> , 2007, 36, 378-387. | 4.2 | 93 |
| 72 | Illusions of Force Perception: The Role of Sensori-Motor Predictions, Visual Information, and Motor Errors. <i>Journal of Neurophysiology</i> , 2007, 97, 3305-3313. | 1.8 | 25 |

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|----|--|-----|-----------|
| 73 | Ipsilateral corticospinal projections do not predict congenital mirror movements: A case report. <i>Neuropsychologia</i> , 2007, 45, 844-852. | 1.6 | 25 |
| 74 | Two Types of TMS-Induced Movement Variability After Stimulation of the Primary Motor Cortex. <i>Journal of Neurophysiology</i> , 2006, 96, 1018-1029. | 1.8 | 12 |
| 75 | Coming Unbound: Disrupting Automatic Integration of Synesthetic Color and Graphemes by Transcranial Magnetic Stimulation of the Right Parietal Lobe. <i>Journal of Cognitive Neuroscience</i> , 2006, 18, 1570-1576. | 2.3 | 126 |
| 76 | Cerebellar Involvement in Anticipating the Consequences of Self-Produced Actions During Bimanual Movements. <i>Journal of Neurophysiology</i> , 2005, 93, 801-812. | 1.8 | 132 |
| 77 | Ipsilateral Motor Cortex Activity During Unimanual Hand Movements Relates to Task Complexity. <i>Journal of Neurophysiology</i> , 2005, 93, 1209-1222. | 1.8 | 395 |
| 78 | Anticipatory adjustments in the unloading task: Is an efference copy necessary for learning?. <i>Experimental Brain Research</i> , 2003, 148, 272-276. | 1.5 | 72 |
| 79 | Early life environment modulates "handedness" in rats. <i>Behavioural Brain Research</i> , 2002, 131, 1-7. | 2.2 | 110 |
| 80 | Neonatal novelty exposure modulates hippocampal volumetric asymmetry in the rat. <i>NeuroReport</i> , 2001, 12, 3019-3022. | 1.2 | 56 |
| 81 | Experiencing the future: the influence of self-initiation on temporal perception. , 0, , 164-180. | | 0 |
| 82 | Big Challenges from the Little Brain " Imaging the Cerebellum. , 0, , . | | 16 |