

# 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  
g-index

117  
all docs

117  
docs citations

117  
times ranked

8031  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deterministic Diffusion Fiber Tracking Improved by Quantitative Anisotropy. PLoS ONE, 2013, 8, e80713.	2.5	812
2	Population-averaged atlas of the macroscale human structural connectome and its network topology. NeuroImage, 2018, 178, 57-68.	4.2	409
3	Ipsilateral Motor Cortex Activity During Unimanual Hand Movements Relates to Task Complexity. Journal of Neurophysiology, 2005, 93, 1209-1222.	1.8	395
4	High-Definition Fiber Tractography of the Human Brain. Neurosurgery, 2012, 71, 430-453.	1.1	213
5	Converging Structural and Functional Connectivity of Orbitofrontal, Dorsolateral Prefrontal, and Posterior Parietal Cortex in the Human Striatum. Journal of Neuroscience, 2015, 35, 3865-3878.	3.6	195
6	How Each Movement Changes the Next: An Experimental and Theoretical Study of Fast Adaptive Priors in Reaching. Journal of Neuroscience, 2011, 31, 10050-10059.	3.6	194
7	Connectometry: A statistical approach harnessing the analytical potential of the local connectome. NeuroImage, 2016, 125, 162-171.	4.2	175
8	Asymmetry, connectivity, and segmentation of the arcuate fascicle in the human brain. Brain Structure and Function, 2015, 220, 1665-1680.	2.3	152
9	Evidence of a Novel Somatopic Map in the Human Neocerebellum During Complex Actions. Journal of Neurophysiology, 2010, 103, 3330-3336.	1.8	134
10	Cerebellar Involvement in Anticipating the Consequences of Self-Produced Actions During Bimanual Movements. Journal of Neurophysiology, 2005, 93, 801-812.	1.8	132
11	Coming Unbound: Disrupting Automatic Integration of Synesthetic Color and Graphemes by Transcranial Magnetic Stimulation of the Right Parietal Lobe. Journal of Cognitive Neuroscience, 2006, 18, 1570-1576.	2.3	126
12	Rethinking the Role of the Middle Longitudinal Fascicle in Language and Auditory Pathways. Cerebral Cortex, 2013, 23, 2347-2356.	2.9	124
13	Explicating the Face Perception Network with White Matter Connectivity. PLoS ONE, 2013, 8, e61611.	2.5	124
14	Quantifying Differences and Similarities in Whole-Brain White Matter Architecture Using Local Connectome Fingerprints. PLoS Computational Biology, 2016, 12, e1005203.	3.2	118
15	Increased Body Mass Index Is Associated With a Global and Distributed Decrease in White Matter Microstructural Integrity. Psychosomatic Medicine, 2012, 74, 682-690.	2.0	111
16	Early life environment modulates "handedness"™ in rats. Behavioural Brain Research, 2002, 131, 1-7.	2.2	110
17	White matter microstructure mediates the relationship between cardiorespiratory fitness and spatial working memory in older adults. NeuroImage, 2016, 131, 91-101.	4.2	110
18	Cognitive chimera states in human brain networks. Science Advances, 2019, 5, eaau8535.	10.3	106

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19	Transcranial magnetic stimulation of posterior parietal cortex affects decisions of hand choice. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17751-17756.	7.1	101
20	Inflammatory Pathways Link Socioeconomic Inequalities to White Matter Architecture. Cerebral Cortex, 2013, 23, 2058-2071.	2.9	101
21	Cerebellar activation during discrete and not continuous timed movements: An fMRI study. NeuroImage, 2007, 36, 378-387.	4.2	93
22	Visuotopic Cortical Connectivity Underlying Attention Revealed with White-Matter Tractography. Journal of Neuroscience, 2012, 32, 2773-2782.	3.6	93
23	Adolescent brain development and depression: A case for the importance of connectivity of the anterior cingulate cortex. Neuroscience and Biobehavioral Reviews, 2016, 70, 271-287.	6.1	88
24	Caudate Nucleus Volume Mediates the Link between Cardiorespiratory Fitness and Cognitive Flexibility in Older Adults. Journal of Aging Research, 2012, 2012, 1-11.	0.9	85
25	Microstructural organizational patterns in the human corticostriatal system. Journal of Neurophysiology, 2012, 107, 2984-2995.	1.8	81
26	In vivo quantification of global connectivity in the human corpus callosum. NeuroImage, 2012, 59, 1988-1996.	4.2	80
27	Competing physiological pathways link individual differences in weight and abdominal adiposity to white matter microstructure. NeuroImage, 2013, 79, 129-137.	4.2	73
28	Anticipatory adjustments in the unloading task: Is an efference copy necessary for learning?. Experimental Brain Research, 2003, 148, 272-276.	1.5	72
29	Competing basal ganglia pathways determine the difference between stopping and deciding not to go. ELife, 2015, 4, e08723.	6.0	72
30	Advances in functional imaging of the human cerebellum. Current Opinion in Neurology, 2010, 23, 382-387.	3.6	69
31	In Vivo Mapping of Microstructural Somatotopies in the Human Corticospinal Pathways. Journal of Neurophysiology, 2011, 105, 336-346.	1.8	62
32	Using pulse oximetry to account for high and low frequency physiological artifacts in the BOLD signal. NeuroImage, 2011, 55, 1633-1644.	4.2	60
33	Neonatal novelty exposure modulates hippocampal volumetric asymmetry in the rat. NeuroReport, 2001, 12, 3019-3022.	1.2	56
34	A Brain Phenotype for Stressor-Evoked Blood Pressure Reactivity. Journal of the American Heart Association, 2017, 6, .	3.7	53
35	Health Neuroscience. Current Directions in Psychological Science, 2014, 23, 446-453.	5.3	50
36	Network Dynamics Mediating Ipsilateral Motor Cortex Activity during Unimanual Actions. Journal of Cognitive Neuroscience, 2011, 23, 2468-2480.	2.3	49

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37	Multi-scale detection of hierarchical community architecture in structural and functional brain networks. <i>PLoS ONE</i> , 2019, 14, e0215520.	2.5	49
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	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
40	Brain dynamics of post-task resting state are influenced by expertise: Insights from baseball players. <i>Human Brain Mapping</i> , 2016, 37, 4454-4471.	3.6	40
41	Integrating across neuroimaging modalities boosts prediction accuracy of cognitive ability. <i>PLoS Computational Biology</i> , 2021, 17, e1008347.	3.2	36
42	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
43	Voluntary and involuntary attention affect face discrimination differently. <i>Neuropsychologia</i> , 2008, 46, 1032-1040.	1.6	32
44	Reward-driven changes in striatal pathway competition shape evidence evaluation in decision-making. <i>PLoS Computational Biology</i> , 2019, 15, e1006998.	3.2	30
45	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
46	Attenuating illusory binding with TMS of the right parietal cortex. <i>NeuroImage</i> , 2007, 35, 1247-1255.	4.2	28
47	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
48	Investigating Gains in Neurocognition in an Intervention Trial of Exercise (IGNITE): Protocol. <i>Contemporary Clinical Trials</i> , 2019, 85, 105832.	1.8	26
49	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
50	Ipsilateral corticospinal projections do not predict congenital mirror movements: A case report. <i>Neuropsychologia</i> , 2007, 45, 844-852.	1.6	25
51	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
52	Local connectome phenotypes predict social, health, and cognitive factors. <i>Network Neuroscience</i> , 2018, 2, 86-105.	2.6	22
53	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
54	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

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55	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
56	Cerebral Blood Flow Links Insulin Resistance and Baroreflex Sensitivity. <i>PLoS ONE</i> , 2013, 8, e83288.	2.5	18
57	Prefrontal and parietal contributions to refreshing: An rTMS study. <i>NeuroImage</i> , 2008, 39, 436-440.	4.2	16
58	Big Challenges from the Little Brain – Imaging the Cerebellum. , 0, , .		16
59	Fusing Multiple Neuroimaging Modalities to Assess Group Differences in Perception – Action Coupling. <i>Proceedings of the IEEE</i> , 2017, 105, 83-100.	21.3	15
60	Opposing relationships of childhood threat and deprivation with stria terminalis white matter. <i>Human Brain Mapping</i> , 2021, 42, 2445-2460.	3.6	15
61	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
62	Binding During Sequence Learning Does Not Alter Cortical Representations of Individual Actions. <i>Journal of Neuroscience</i> , 2019, 39, 6968-6977.	3.6	13
63	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
64	Converting Multi-Shell and Diffusion Spectrum Imaging to High Angular Resolution Diffusion Imaging. <i>Frontiers in Neuroscience</i> , 2016, 10, 418.	2.8	12
65	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
66	In vivo characterization of the connectivity and subcomponents of the human globus pallidus. <i>NeuroImage</i> , 2015, 120, 382-393.	4.2	11
67	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
68	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
69	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
70	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
71	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
72	Sensory uncertainty impacts avoidance during spatial decisions. <i>Experimental Brain Research</i> , 2018, 236, 529-537.	1.5	6

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73	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
74	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
75	Dynamic decision policy reconfiguration under outcome uncertainty. <i>ELife</i> , 2021, 10, .	6.0	4
76	Differentiating Visual from Response Sequencing during Long-term Skill Learning. <i>Journal of Cognitive Neuroscience</i> , 2017, 29, 125-136.	2.3	3
77	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
78	Identifying control ensembles for information processing within the cortico-basal ganglia-thalamic circuit. <i>PLoS Computational Biology</i> , 2022, 18, e1010255.	3.2	2
79	Mapping Topographic Structure in White Matter Pathways with Level Set Trees. <i>PLoS ONE</i> , 2014, 9, e93344.	2.5	1
80	Experiencing the future: the influence of self-initiation on temporal perception. , 0, , 164-180.		0
81	Local White Matter Architecture Defines Functional Brain Dynamics. , 2018, , .		0
82	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