

# Amy J Bastian

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

6,435  
citations

136740

32  
h-index

161609

54  
g-index

58  
all docs

58  
docs citations

58  
times ranked

4520  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensory Prediction Errors Drive Cerebellum-Dependent Adaptation of Reaching. <i>Journal of Neurophysiology</i> , 2007, 98, 54-62.	0.9	749
2	Learning to predict the future: the cerebellum adapts feedforward movement control. <i>Current Opinion in Neurobiology</i> , 2006, 16, 645-649.	2.0	532
3	Cerebellar Contributions to Locomotor Adaptations during Splitbelt Treadmill Walking. <i>Journal of Neuroscience</i> , 2006, 26, 9107-9116.	1.7	525
4	Interlimb Coordination During Locomotion: What Can be Adapted and Stored?. <i>Journal of Neurophysiology</i> , 2005, 94, 2403-2415.	0.9	471
5	Cerebellar Control of Balance and Locomotion. <i>Neuroscientist</i> , 2004, 10, 247-259.	2.6	365
6	Understanding sensorimotor adaptation and learning for rehabilitation. <i>Current Opinion in Neurology</i> , 2008, 21, 628-633.	1.8	355
7	Split-Belt Treadmill Adaptation Transfers to Overground Walking in Persons Poststroke. <i>Neurorehabilitation and Neural Repair</i> , 2009, 23, 735-744.	1.4	259
8	Thinking About Walking: Effects of Conscious Correction Versus Distraction on Locomotor Adaptation. <i>Journal of Neurophysiology</i> , 2010, 103, 1954-1962.	0.9	237
9	Repeated Split-Belt Treadmill Training Improves Poststroke Step Length Asymmetry. <i>Neurorehabilitation and Neural Repair</i> , 2013, 27, 460-468.	1.4	236
10	Where Is Your Arm? Variations in Proprioception Across Space and Tasks. <i>Journal of Neurophysiology</i> , 2010, 103, 164-171.	0.9	192
11	Reach Adaptation: What Determines Whether We Learn an Internal Model of the Tool or Adapt the Model of Our Arm?. <i>Journal of Neurophysiology</i> , 2008, 100, 1455-1464.	0.9	183
12	Cerebellar Transcranial Direct Current Stimulation (ctDCS). <i>Neuroscientist</i> , 2016, 22, 83-97.	2.6	177
13	Effective reinforcement learning following cerebellar damage requires a balance between exploration and motor noise. <i>Brain</i> , 2016, 139, 101-114.	3.7	161
14	A Single Bout of Moderate Aerobic Exercise Improves Motor Skill Acquisition. <i>PLoS ONE</i> , 2015, 10, e0141393.	1.1	137
15	Moving, sensing and learning with cerebellar damage. <i>Current Opinion in Neurobiology</i> , 2011, 21, 596-601.	2.0	120
16	Predictive Modeling by the Cerebellum Improves Proprioception. <i>Journal of Neuroscience</i> , 2013, 33, 14301-14306.	1.7	111
17	Natural error patterns enable transfer of motor learning to novel contexts. <i>Journal of Neurophysiology</i> , 2012, 107, 346-356.	0.9	106
18	Younger Is Not Always Better: Development of Locomotor Adaptation from Childhood to Adulthood. <i>Journal of Neuroscience</i> , 2011, 31, 3055-3065.	1.7	105

#	ARTICLE	IF	CITATIONS
19	Motor Learning Enhances Use-Dependent Plasticity. <i>Journal of Neuroscience</i> , 2017, 37, 2673-2685.	1.7	99
20	Seeing Is Believing: Effects of Visual Contextual Cues on Learning and Transfer of Locomotor Adaptation. <i>Journal of Neuroscience</i> , 2010, 30, 17015-17022.	1.7	93
21	Predicting and correcting ataxia using a model of cerebellar function. <i>Brain</i> , 2014, 137, 1931-1944.	3.7	85
22	Split-Belt Treadmill Adaptation Shows Different Functional Networks for Fast and Slow Human Walking. <i>Journal of Neurophysiology</i> , 2010, 103, 183-191.	0.9	84
23	Two ways to save a newly learned motor pattern. <i>Journal of Neurophysiology</i> , 2015, 113, 3519-3530.	0.9	79
24	A Home Balance Exercise Program Improves Walking in People With Cerebellar Ataxia. <i>Neurorehabilitation and Neural Repair</i> , 2014, 28, 770-778.	1.4	76
25	Motor Skills Are Strengthened through Reconsolidation. <i>Current Biology</i> , 2016, 26, 338-343.	1.8	66
26	Visuomotor Learning Generalizes Around the Intended Movement. <i>ENeuro</i> , 2016, 3, ENEURO.0005-16.2016.	0.9	66
27	Seeing the Errors You Feel Enhances Locomotor Performance but Not Learning. <i>Current Biology</i> , 2016, 26, 2707-2716.	1.8	65
28	Cerebellar damage impairs internal predictions for sensory and motor function. <i>Current Opinion in Neurobiology</i> , 2015, 33, 127-133.	2.0	60
29	Cerebellar involvement in motor but not sensory adaptation. <i>Neuropsychologia</i> , 2012, 50, 1766-1775.	0.7	58
30	Age-related forgetting in locomotor adaptation. <i>Neurobiology of Learning and Memory</i> , 2016, 128, 1-6.	1.0	57
31	The cerebellum as a movement sensor. <i>Neuroscience Letters</i> , 2019, 688, 37-40.	1.0	49
32	Increasing Motor Noise Impairs Reinforcement Learning in Healthy Individuals. <i>ENeuro</i> , 2018, 5, ENEURO.0050-18.2018.	0.9	48
33	Blocking trial-by-trial error correction does not interfere with motor learning in human walking. <i>Journal of Neurophysiology</i> , 2016, 115, 2341-2348.	0.9	39
34	Cerebellar damage diminishes long-latency responses to multijoint perturbations. <i>Journal of Neurophysiology</i> , 2013, 109, 2228-2241.	0.9	37
35	Split-belt walking adaptation recalibrates sensorimotor estimates of leg speed but not position or force. <i>Journal of Neurophysiology</i> , 2015, 114, 3255-3267.	0.9	37
36	Creating flexible motor memories in human walking. <i>Scientific Reports</i> , 2018, 8, 94.	1.6	34

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37	Cerebellar patients have intact feedback control that can be leveraged to improve reaching. <i>ELife</i> , 2020, 9, .	2.8	31
38	Cerebellar Limb Ataxia. Abnormal Control of Self-Generated and External Forces. <i>Annals of the New York Academy of Sciences</i> , 2002, 978, 16-27.	1.8	28
39	Cerebellum and the deciphering of motor coding. <i>Cerebellum</i> , 2007, 6, 3-6.	1.4	27
40	The cerebellum contributes to proprioception during motion. <i>Journal of Neurophysiology</i> , 2017, 118, 693-702.	0.9	22
41	Learning and generalization in an isometric visuomotor task. <i>Journal of Neurophysiology</i> , 2015, 113, 1873-1884.	0.9	21
42	A dual-learning paradigm can simultaneously train multiple characteristics of walking. <i>Journal of Neurophysiology</i> , 2016, 115, 2692-2700.	0.9	20
43	Proprioceptive Localization Deficits in People With Cerebellar Damage. <i>Cerebellum</i> , 2017, 16, 427-437.	1.4	17
44	A marching-walking hybrid induces step length adaptation and transfers to natural walking. <i>Journal of Neurophysiology</i> , 2015, 113, 3905-3914.	0.9	16
45	A Dual-Learning Paradigm Simultaneously Improves Multiple Features of Gait Post-Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2018, 32, 810-820.	1.4	16
46	Prior Experience but Not Size of Error Improves Motor Learning on the Split-Belt Treadmill in Young Children. <i>PLoS ONE</i> , 2014, 9, e93349.	1.1	15
47	Reinforcement Signaling Can Be Used to Reduce Elements of Cerebellar Reaching Ataxia. <i>Cerebellum</i> , 2021, 20, 62-73.	1.4	14
48	Motor learning in childhood reveals distinct mechanisms for memory retention and re-learning. <i>Learning and Memory</i> , 2016, 23, 229-237.	0.5	10
49	Novel automated morphometric and kinematic handwriting assessment: A validity study in children with ASD and ADHD. <i>Journal of Occupational Therapy, Schools, and Early Intervention</i> , 2017, 10, 185-201.	0.4	9
50	Patients with Cerebellar Ataxia Do Not Benefit from Limb Weights. <i>Cerebellum</i> , 2019, 18, 128-136.	1.4	9
51	Individualized feedback to change multiple gait deficits in chronic stroke. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2019, 16, 158.	2.4	7
52	Training at asymptote stabilizes motor memories by reducing intracortical excitation. <i>Cortex</i> , 2021, 143, 47-56.	1.1	7
53	Is the dynamic gait index a useful outcome to measure balance and ambulation in patients with cerebellar ataxia?. <i>Gait and Posture</i> , 2021, 89, 200-205.	0.6	5
54	Can the ARAT Be Used to Measure Arm Function in People With Cerebellar Ataxia?. <i>Physical Therapy</i> , 2021, 101, .	1.1	5

#	ARTICLE	IF	CITATIONS
55	Context-specificity of locomotor learning is developed during childhood. ENeuro, 2022, , ENEURO.0369-21.2022.	0.9	0