

# Guillaume Ml Dumas

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96  
papers

2,410  
citations

22  
h-index

47  
g-index

120  
ext. papers

3,658  
ext. citations

6.2  
avg, IF

5.54  
L-index

#	Paper	IF	Citations
96	Neurobiological Correlates of Change in Adaptive Behavior in Autism.. <i>American Journal of Psychiatry</i> , <b>2022</b> , appiajp21070711	11.9	0
95	From Generative Models to Generative Passages: A Computational Approach to (Neuro) Phenomenology.. <i>Review of Philosophy and Psychology</i> , <b>2022</b> , 1-29	1.4	0
94	From inter-brain connectivity to inter-personal psychiatry.. <i>World Psychiatry</i> , <b>2022</b> , 21, 214-215	14.4	1
93	Resting state EEG power spectrum and functional connectivity in autism: a cross-sectional analysis.. <i>Molecular Autism</i> , <b>2022</b> , 13, 22	6.5	0
92	Maternal chemosignals enhance infant-adult brain-to-brain synchrony. <i>Science Advances</i> , <b>2021</b> , 7, eabg6867	14.3	5
91	The meaning of significant mean group differences for biomarker discovery. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1009477	5	3
90	Atypical Brain Asymmetry in Autism-A Candidate for Clinically Meaningful Stratification. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , <b>2021</b> , 6, 802-812	3.4	14
89	Temporal Profiles of Social Attention Are Different Across Development in Autistic and Neurotypical People. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , <b>2021</b> , 6, 813-824	3.4	10
88	Comment on Starke et al.: 'Computing schizophrenia: ethical challenges for machine learning in psychiatry': from machine learning to student learning: pedagogical challenges for psychiatry. <i>Psychological Medicine</i> , <b>2021</b> , 51, 2509-2511	6.9	3
87	Towards robust and replicable sex differences in the intrinsic brain function of autism. <i>Molecular Autism</i> , <b>2021</b> , 12, 19	6.5	9
86	Comment on Starke et al.: "Computing schizophrenia: ethical challenges for machine learning in psychiatry": From machine learning to student learning: pedagogical challenges for psychiatry - Corrigendum. <i>Psychological Medicine</i> , <b>2021</b> , 51, 2514	6.9	
85	#EEGManyLabs: Investigating the replicability of influential EEG experiments. <i>Cortex</i> , <b>2021</b> , 144, 213-229	3.8	10
84	Electro-clinical features in epileptic children with chromosome 15q duplication syndrome. <i>Clinical Neurophysiology</i> , <b>2021</b> , 132, 1126-1137	4.3	
83	Imbalanced social-communicative and restricted repetitive behavior subtypes of autism spectrum disorder exhibit different neural circuitry. <i>Communications Biology</i> , <b>2021</b> , 4, 574	6.7	4
82	Reciprocity and alignment: quantifying coupling in dynamic interactions. <i>Royal Society Open Science</i> , <b>2021</b> , 8, 210138	3.3	8
81	Brainhack: Developing a culture of open, inclusive, community-driven neuroscience. <i>Neuron</i> , <b>2021</b> , 109, 1769-1775	13.9	10
80	Beyond Correlation versus Causation: Multi-brain Neuroscience Needs Explanation. <i>Trends in Cognitive Sciences</i> , <b>2021</b> , 25, 542-543	14	12

79	Learning Brain Dynamics With Coupled Low-Dimensional Nonlinear Oscillators and Deep Recurrent Networks. <i>Neural Computation</i> , <b>2021</b> , 33, 2087-2127	2.9	0
78	Human attachments shape interbrain synchrony toward efficient performance of social goals. <i>NeuroImage</i> , <b>2021</b> , 226, 117600	7.9	16
77	HyPyP: a Hyperscanning Python Pipeline for inter-brain connectivity analysis. <i>Social Cognitive and Affective Neuroscience</i> , <b>2021</b> , 16, 72-83	4	17
76	Les trois cultures de la psychiatrie computationnelle. <i>Annales Medico-Psychologiques</i> , <b>2021</b> , 179, 63-71	0.2	2
75	Personalized Medicine for OSA Syndrome in a Nutshell: Conceptual Clarification for Integration. <i>Chest</i> , <b>2021</b> , 159, 451-452	5.3	3
74	Symptom network analysis of the sleep disorders diagnostic criteria based on the clinical text of the ICSD-3. <i>Journal of Sleep Research</i> , <b>2021</b> , e13435	5.8	1
73	A systematic analysis of ICSD-3 diagnostic criteria and proposal for further structured iteration. <i>Sleep Medicine Reviews</i> , <b>2021</b> , 58, 101439	10.2	6
72	Hybrid Harmony: A Multi-Person Neurofeedback Application for Interpersonal Synchrony. <i>Frontiers in Neuroergonomics</i> , <b>2021</b> , 2,	5.3	2
71	Interindividual Differences in Cortical Thickness and Their Genomic Underpinnings in Autism Spectrum Disorder. <i>American Journal of Psychiatry</i> , <b>2021</b> , appiajp202120050630	11.9	2
70	Why do sleep disorders belong to mental disorder classifications? A network analysis of the "Sleep-Wake Disorders" section of the DSM-5. <i>Journal of Psychiatric Research</i> , <b>2021</b> , 142, 153-159	5.2	2
69	Mass-spectrometry analysis of the human pineal proteome during night and day and in autism. <i>Journal of Pineal Research</i> , <b>2021</b> , 70, e12713	10.4	3
68	Systematic detection of brain protein-coding genes under positive selection during primate evolution and their roles in cognition. <i>Genome Research</i> , <b>2021</b> , 31, 484-496	9.7	8
67	Preference for biological motion is reduced in ASD: implications for clinical trials and the search for biomarkers.. <i>Molecular Autism</i> , <b>2021</b> , 12, 74	6.5	0
66	Early Transcriptional Changes in Rabies Virus-Infected Neurons and Their Impact on Neuronal Functions.. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 730892	5.7	0
65	"Social physiology" for psychiatric semiology: How TTOM can initiate an interactive turn for computational psychiatry?. <i>Behavioral and Brain Sciences</i> , <b>2020</b> , 43, e102	0.9	2
64	Dark control: The default mode network as a reinforcement learning agent. <i>Human Brain Mapping</i> , <b>2020</b> , 41, 3318-3341	5.9	26
63	Autism spectrum disorder. <i>Nature Reviews Disease Primers</i> , <b>2020</b> , 6, 5	51.1	259
62	Modeling flexible behavior in childhood to adulthood shows age-dependent learning mechanisms and less optimal learning in autism in each age group. <i>PLoS Biology</i> , <b>2020</b> , 18, e3000908	9.7	10

61	Binaural Beats through the Auditory Pathway: From Brainstem to Connectivity Patterns. <i>ENeuro</i> , <b>2020</b> , 7,	3.9	10
60	Interactive Psychometrics for Autism With the Human Dynamic Clamp: Interpersonal Synchrony From Sensorimotor to Sociocognitive Domains. <i>Frontiers in Psychiatry</i> , <b>2020</b> , 11, 510366	5	1
59	The Human Dynamic Clamp Reveals the Fronto-Parietal Network Linking Real-Time Social Coordination and Cognition. <i>Cerebral Cortex</i> , <b>2020</b> , 30, 3271-3285	5.1	19
58	Mutations associated with neuropsychiatric conditions delineate functional brain connectivity dimensions contributing to autism and schizophrenia. <i>Nature Communications</i> , <b>2020</b> , 11, 5272	17.4	13
57	Médecine du sommeil personnalisée et syndrome d'apnées hypoxiques obstructives du sommeil : entre précision et stratification, une proposition de clarification. <i>Médecine Du Sommeil</i> , <b>2020</b> , 17, 213-230	0.5	3
56	Patterns of autism symptoms: hidden structure in the ADOS and ADI-R instruments. <i>Translational Psychiatry</i> , <b>2020</b> , 10, 257	8.6	10
55	Dissecting the phenotypic heterogeneity in sensory features in autism spectrum disorder: a factor mixture modelling approach. <i>Molecular Autism</i> , <b>2020</b> , 11, 67	6.5	7
54	A normative modelling approach reveals age-atypical cortical thickness in a subgroup of males with autism spectrum disorder. <i>Communications Biology</i> , <b>2020</b> , 3, 486	6.7	18
53	Implementing EEG hyperscanning setups. <i>MethodsX</i> , <b>2019</b> , 6, 428-436	1.9	15
52	Morning Plasma Melatonin Differences in Autism: Beyond the Impact of Pineal Gland Volume. <i>Frontiers in Psychiatry</i> , <b>2019</b> , 10, 11	5	12
51	Investigating the factors underlying adaptive functioning in autism in the EU-AIMS Longitudinal European Autism Project. <i>Autism Research</i> , <b>2019</b> , 12, 645-657	5.1	35
50	From pattern classification to stratification: towards conceptualizing the heterogeneity of Autism Spectrum Disorder. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2019</b> , 104, 240-254	9	37
49	Vers une approche physiologique de la séméiologie en psychiatrie. Partie 2 : perspectives offertes par la biologie systémique. <i>Annales Medico-Psychologiques</i> , <b>2019</b> , 177, 289-294	0.2	1
48	Vers une approche physiologique de la séméiologie en psychiatrie. Partie 1 : approches RDC, DSM, RDoC et HiTOP. <i>Annales Medico-Psychologiques</i> , <b>2019</b> , 177, 282-288	0.2	
47	Dissecting the Heterogeneous Cortical Anatomy of Autism Spectrum Disorder Using Normative Models. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , <b>2019</b> , 4, 567-578	3.4	47
46	Altered Connectivity Between Cerebellum, Visual, and Sensory-Motor Networks in Autism Spectrum Disorder: Results from the EU-AIMS Longitudinal European Autism Project. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , <b>2019</b> , 4, 260-270	3.4	43
45	Differential brain-to-brain entrainment while speaking and listening in native and foreign languages. <i>Cortex</i> , <b>2019</b> , 111, 303-315	3.8	29
44	Brain-to-brain coupling during handholding is associated with pain reduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E2528-E2537	11.5	123

43	Making psychiatric semiology great again: A semiologic, not nosologic challenge. <i>L'Encephale</i> , <b>2018</b> , 44, 343-353	2.9	16
42	Dans le cerveau des autistes <b>2018</b> , N° 105, 54-58		
41	A roadmap to computational social neuroscience. <i>Cognitive Neurodynamics</i> , <b>2018</b> , 12, 135-140	4.2	7
40	The Human Dynamic Clamp: A Probe for Coordination Across Neural, Behavioral, and Social Scales <b>2018</b> , 317-332		2
39	Alpha Waves as a Neuromarker of Autism Spectrum Disorder: The Challenge of Reproducibility and Heterogeneity. <i>Frontiers in Neuroscience</i> , <b>2018</b> , 12, 662	5.1	16
38	Experimenting with reproducibility: a case study of robustness in bioinformatics. <i>GigaScience</i> , <b>2018</b> , 7,	7.6	22
37	De la clinique au « terrain flide et palpitant de la vie »: une mise en perspective psychiatrique de la physiologie clinique. <i>Annales Medico-Psychologiques</i> , <b>2017</b> , 175, 70-85	0.2	1
36	The EU-AIMS Longitudinal European Autism Project (LEAP): design and methodologies to identify and validate stratification biomarkers for autism spectrum disorders. <i>Molecular Autism</i> , <b>2017</b> , 8, 24	6.5	106
35	The EU-AIMS Longitudinal European Autism Project (LEAP): clinical characterisation. <i>Molecular Autism</i> , <b>2017</b> , 8, 27	6.5	69
34	A de novo microdeletion of SEMA5A in a boy with autism spectrum disorder and intellectual disability. <i>European Journal of Human Genetics</i> , <b>2016</b> , 24, 838-43	5.3	24
33	Enhanced emotional responses during social coordination with a virtual partner. <i>International Journal of Psychophysiology</i> , <b>2016</b> , 104, 33-43	2.9	16
32	Automatic measure of imitation during social interaction: A behavioral and hyperscanning-EEG benchmark. <i>Pattern Recognition Letters</i> , <b>2015</b> , 66, 118-126	4.7	22
31	The Virtual Teacher (VT) Paradigm: Learning New Patterns of Interpersonal Coordination Using the Human Dynamic Clamp. <i>PLoS ONE</i> , <b>2015</b> , 10, e0142029	3.7	23
30	Toward a neural basis for peer-interaction: what makes peer-learning tick?. <i>Frontiers in Psychology</i> , <b>2015</b> , 6, 28	3.4	11
29	The Regulation of Task Performance: A Trans-Disciplinary Review. <i>Frontiers in Psychology</i> , <b>2015</b> , 6, 1862	3.4	5
28	Revisiting mu suppression in autism spectrum disorder. <i>Brain Research</i> , <b>2014</b> , 1585, 108-19	3.7	64
27	The Interacting Body: Intra- and Interindividual Processes During Imitation. <i>Journal of Cognitive Education and Psychology</i> , <b>2014</b> , 13, 163-175	0.4	6
26	Your body, my body, our coupling moves our bodies. <i>Frontiers in Human Neuroscience</i> , <b>2014</b> , 8, 1004	3.3	21

25	Tackling the social cognition paradox through multi-scale approaches. <i>Frontiers in Psychology</i> , <b>2014</b> , 5, 882	3.4	27
24	Coordination dynamics: Bidirectional coupling between humans, machines and brains <b>2014</b> ,		3
23	The Evolving Nature of Social Network Research: A Commentary to Gleibs (2014). <i>Analyses of Social Issues and Public Policy</i> , <b>2014</b> , 14, 374-378	0.9	2
22	The human dynamic clamp as a paradigm for social interaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E3726-34	11.5	99
21	Outline of a general theory of behavior and brain coordination. <i>Neural Networks</i> , <b>2013</b> , 37, 120-31	9.1	94
20	Cyborg psychiatry to ensure agency and autonomy in mental disorders. A proposal for neuromodulation therapeutics. <i>Frontiers in Human Neuroscience</i> , <b>2013</b> , 7, 463	3.3	7
19	Does the brain know who is at the origin of what in an imitative interaction?. <i>Frontiers in Human Neuroscience</i> , <b>2012</b> , 6, 128	3.3	47
18	Anatomical connectivity influences both intra- and inter-brain synchronizations. <i>PLoS ONE</i> , <b>2012</b> , 7, e36414	3.4	70
17	Magnetoencephalographic signatures of visual form and motion binding. <i>Brain Research</i> , <b>2011</b> , 1408, 27-40	3.7	27
16	From social behaviour to brain synchronization: Review and perspectives in hyperscanning. <i>Irbm</i> , <b>2011</b> , 32, 48-53	4.8	107
15	Towards a two-body neuroscience. <i>Communicative and Integrative Biology</i> , <b>2011</b> , 4, 349-52	1.7	64
14	Inter-brain synchronization during social interaction. <i>PLoS ONE</i> , <b>2010</b> , 5, e12166	3.7	516
13	Interpersonal Synchrony: From Social Perception to Social Interaction		202-212 5
12	#EEGManyLabs: Investigating the Replicability of Influential EEG Experiments		3
11	Reciprocity and alignment: quantifying coupling in dynamic interactions		4
10	HyPyP: a Hyperscanning Python Pipeline for inter-brain connectivity analysis		3
9	The Human Dynamic Clamp reveals the fronto-parietal network linking real-time social coordination and cognition		1
8	Systematic detection of brain protein-coding genes under positive selection during primate evolution and their roles in cognition		1

7	Experimenting with reproducibility in bioinformatics	1
6	Dark Control: Towards a Unified Account of Default Mode Function by Markov Decision Processes	5
5	Normative age modelling of cortical thickness in autistic males	9
4	Dissecting the heterogeneous cortical anatomy of autism spectrum disorder using normative models	2
3	Neuropsychiatric mutations delineate functional brain connectivity dimensions contributing to autism and schizophrenia	1
2	From generative models to generative passages: A computational approach to (neuro)phenomenology	4
1	How Can Digital Mental Health Enhance Psychiatry?. <i>Neuroscientist</i> ,107385842210986	7.6 0