Dennis Paul Wall

List of Publications by Citations

89 papers	2,620 citations	27 h-index	49 g-index
118 ext. papers	3,678 ext. citations	6.9 avg, IF	5.12 L-index

#	Paper	IF	Citations
89	A framework for the interpretation of de novo mutation in human disease. *Nature Genetics*, **2014**, 46, 944-50	36.3	656
88	Refining the role of de novo protein-truncating variants in neurodevelopmental disorders by using population reference samples. *Nature Genetics*, **2017**, 49, 504-510	36.3	203
87	Inherited and De Novo Genetic Risk for Autism Impacts Shared Networks. *Cell*, **2019**, 178, 850-866.e26	56.2	142
86	Use of artificial intelligence to shorten the behavioral diagnosis of autism. *PLoS ONE*, **2012**, 7, e43855	3.7	99
85	Biomedical cloud computing with Amazon Web Services. *PLoS Computational Biology*, **2011**, 7, e1002147[5]		95
84	Cloud computing for comparative genomics. *BMC Bioinformatics*, **2010**, 11, 259	3.6	85
83	Automated integration of continuous glucose monitor data in the electronic health record using consumer technology. *Journal of the American Medical Informatics Association: JAMIA*, **2016**, 23, 532-7	8.6	75
82	Mobile detection of autism through machine learning on home video: A development and prospective validation study. *PLoS Medicine*, **2018**, 15, e1002705	11.6	67
81	Effect of Wearable Digital Intervention for Improving Socialization in Children With Autism Spectrum Disorder: A Randomized Clinical Trial. *JAMA Pediatrics*, **2019**, 173, 446-454	8.3	56
80	Machine learning approach for early detection of autism by combining questionnaire and home video screening. *Journal of the American Medical Informatics Association: JAMIA*, **2018**, 25, 1000-1007	8.6	55
79	A transgenic resource for conditional competitive inhibition of conserved Drosophila microRNAs. *Nature Communications*, **2015**, 6, 7279	17.4	44
78	The potential of accelerating early detection of autism through content analysis of YouTube videos. *PLoS ONE*, **2014**, 9, e93533	3.7	41
77	Sparsifying machine learning models identify stable subsets of predictive features for behavioral detection of autism. *Molecular Autism*, **2017**, 8, 65	6.5	40
76	Genotator: a disease-agnostic tool for genetic annotation of disease. *BMC Medical Genomics*, **2010**, 3, 50	3.7	40
75	Human Genome Sequencing at the Population Scale: A Primer on High-Throughput DNA Sequencing and Analysis. *American Journal of Epidemiology*, **2017**, 186, 1000-1009	3.8	39
74	Detecting Developmental Delay and Autism Through Machine Learning Models Using Home Videos of Bangladeshi Children: Development and Validation Study. *Journal of Medical Internet Research*, **2019**, 21, e13822	7.6	39
73	Clinical Evaluation of a Novel and Mobile Autism Risk Assessment. *Journal of Autism and Developmental Disorders*, **2016**, 46, 1953-1961	4.6	35

72	Exploratory study examining the at-home feasibility of a wearable tool for social-affective learning in children with autism. *Npj Digital Medicine*, **2018**, 1, 32	15.7	33
71	Labeling images with facial emotion and the potential for pediatric healthcare. *Artificial Intelligence in Medicine*, **2019**, 98, 77-86	7.4	33
70	ORIGIN AND RAPID DIVERSIFICATION OF A TROPICAL MOSS. *Evolution; International Journal of Organic Evolution*, **2005**, 59, 1413-1424	3.8	33
69	Feasibility Testing of a Wearable Behavioral Aid for Social Learning in Children with Autism. *Applied Clinical Informatics*, **2018**, 9, 129-140	3.1	32
68	Brain-specific functional relationship networks inform autism spectrum disorder gene prediction. *Translational Psychiatry*, **2018**, 8, 56	8.6	30
67	A research roadmap for next-generation sequencing informatics. *Science Translational Medicine*, **2016**, 8, 335ps10	17.5	29
66	Identification of Human Neuronal Protein Complexes Reveals Biochemical Activities and Convergent Mechanisms of Action in Autism Spectrum Disorders. *Cell Systems*, **2015**, 1, 361-374	10.6	29
65	Identification and Quantification of Gaps in Access to Autism Resources in the United States: An Infodemiological Study. *Journal of Medical Internet Research*, **2019**, 21, e13094	7.6	29
64	Multi-modular AI Approach to Streamline Autism Diagnosis in Young Children. *Scientific Reports*, **2020**, 10, 5014	4.9	27
63	Data-Driven Diagnostics and the Potential of Mobile Artificial Intelligence for Digital Therapeutic Phenotyping in Computational Psychiatry. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **2020**, 5, 759-769	3.4	27
62	Use of the nuclear gene glyceraldehyde 3-phosphate dehydrogenase for phylogeny reconstruction of recently diverged lineages in Mitthyridium (Musci: Calymperaceae). *Molecular Phylogenetics and Evolution*, **2002**, 25, 10-26	4.1	23
61	Converging on a general model of protein evolution. *Trends in Biotechnology*, **2005**, 23, 485-7	15.1	23
60	COSMOS: Python library for massively parallel workflows. *Bioinformatics*, **2014**, 30, 2956-8	7.2	20
59	Guess What?: Towards Understanding Autism from Structured Video Using Facial Affect. *Journal of Healthcare Informatics Research*, **2019**, 3, 43-66	4	20
58	Validity of Online Screening for Autism: Crowdsourcing Study Comparing Paid and Unpaid Diagnostic Tasks. *Journal of Medical Internet Research*, **2019**, 21, e13668	7.6	19
57	A Mobile Game for Automatic Emotion-Labeling of Images. *IEEE Transactions on Games*, **2020**, 12, 213-218	2	19
56	The conserved microRNA miR-34 regulates synaptogenesis via coordination of distinct mechanisms in presynaptic and postsynaptic cells. *Nature Communications*, **2020**, 11, 1092	17.4	16
55	Machine learning for early detection of autism (and other conditions) using a parental questionnaire and home video screening **2017**,		16

54	Scalable and cost-effective NGS genotyping in the cloud. *BMC Medical Genomics*, **2015**, 8, 64	3.7	16
53	Autworks: a cross-disease network biology application for Autism and related disorders. *BMC Medical Genomics*, **2012**, 5, 56	3.7	16
52	Systems biology as a comparative approach to understand complex gene expression in neurological diseases. *Behavioral Sciences (Basel, Switzerland)*, **2013**, 3, 253-72	2.3	16
51	Precision Telemedicine through Crowdsourced Machine Learning: Testing Variability of Crowd Workers for Video-Based Autism Feature Recognition. *Journal of Personalized Medicine*, **2020**, 10,	3.6	16
50	Cross-disorder comparative analysis of comorbid conditions reveals novel autism candidate genes. *BMC Genomics*, **2017**, 18, 315	4.5	15
49	Personalized cloud-based bioinformatics services for research and education: use cases and the elasticHPC package. *BMC Bioinformatics*, **2012**, 13 Suppl 17, S22	3.6	15
48	The Performance of Emotion Classifiers for Children With Parent-Reported Autism: Quantitative Feasibility Study. *JMIR Mental Health*, **2020**, 7, e13174	6	15
47	Toward Continuous Social Phenotyping: Analyzing Gaze Patterns in an Emotion Recognition Task for Children With Autism Through Wearable Smart Glasses. *Journal of Medical Internet Research*, **2020**, 22, e13810	7.6	15
46	The Quantified Brain: A Framework for Mobile Device-Based Assessment of Behavior and Neurological Function. *Applied Clinical Informatics*, **2016**, 7, 290-8	3.1	15
45	A practical approach to real-time neutral feature subtraction for facial expression recognition **2016**,		14
44	Evolutionary patterns of codon usage in the chloroplast gene rbcL. *Journal of Molecular Evolution*, **2003**, 56, 673-88; discussion 689-90	3.1	14
43	Comorbid Analysis of Genes Associated with Autism Spectrum Disorders Reveals Differential Evolutionary Constraints. *PLoS ONE*, **2016**, 11, e0157937	3.7	14
42	Conservation of the RB1 gene in human and primates. *Human Mutation*, **2005**, 25, 396-409	4.7	13
41	Feature replacement methods enable reliable home video analysis for machine learning detection of autism. *Scientific Reports*, **2020**, 10, 21245	4.9	11
40	Superpower Glass. *GetMobile (New York, N Y)*, **2019**, 23, 35-38	0.8	11
39	The future of genomics in pathology. *F1000 Medicine Reports*, **2012**, 4, 14		10
38	Using game theory to detect genes involved in Autism Spectrum Disorder. *Top*, **2011**, 19, 121-129	1.3	10
37	Feature Selection and Dimension Reduction of Social Autism Data. *Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing*, **2020**, 25, 707-718	1.3	9

36	The Potential for Machine Learning-Based Wearables to Improve Socialization in Teenagers and Adults With Autism Spectrum Disorder-Reply. *JAMA Pediatrics*, **2019**, 173, 1106	8.3	8
35	Can we accelerate autism discoveries through crowdsourcing?. *Research in Autism Spectrum Disorders*, **2016**, 32, 80-83	3	8
34	A literature search tool for intelligent extraction of disease-associated genes. *Journal of the American Medical Informatics Association: JAMIA*, **2014**, 21, 399-405	8.6	7
33	Selection of trustworthy crowd workers for telemedical diagnosis of pediatric autism spectrum disorder **2020**,		7
32	MC-GenomeKey: a multicloud system for the detection and annotation of genomic variants. *BMC Bioinformatics*, **2017**, 18, 49	3.6	6
31	The GapMap project: a mobile surveillance system to map diagnosed autism cases and gaps in autism services globally. *Molecular Autism*, **2017**, 8, 55	6.5	5
30	Cloud computing for comparative genomics with windows azure platform. *Evolutionary Bioinformatics*, **2012**, 8, 527-34	1.9	5
29	Achieving Trustworthy Biomedical Data Solutions **2020**,		5
28	Crowdsourced privacy-preserved feature tagging of short home videos for machine learning ASD detection. *Scientific Reports*, **2021**, 11, 7620	4.9	5
27	Feature Selection and Dimension Reduction of Social Autism Data **2019**,		5
26	Coalitional Game Theory Facilitates Identification of Non-Coding Variants Associated With Autism. *Biomedical Informatics Insights*, **2019**, 11, 1178222619832859	4.9	3
25	Coalitional game theory as a promising approach to identify candidate autism genes. *Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing*, **2018**, 23, 436-447	1.3	3
24	A Mobile Game Platform for Improving Social Communication in Children with Autism: A Feasibility Study. *Applied Clinical Informatics*, **2021**, 12, 1030-1040	3.1	3
23	Origin and rapid diversification of a tropical moss. *Evolution; International Journal of Organic Evolution*, **2005**, 59, 1413-24	3.8	3
22	Evaluation of an artificial intelligence-based medical device for diagnosis of autism spectrum disorder.. *Npj Digital Medicine*, **2022**, 5, 57	15.7	3
21	Cross-pollination of research findings, although uncommon, may accelerate discovery of human disease genes. *BMC Medical Genetics*, **2012**, 13, 114	2.1	2
20	Improved Digital Therapy for Developmental Pediatrics Using Domain-Specific Artificial Intelligence: Machine Learning Study.. *JMIR Pediatrics and Parenting*, **2022**, 5, e26760	4.2	2
19	Selection of trustworthy crowd workers for telemedical diagnosis of pediatric autism spectrum disorder. *Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing*, **2021**, 26, 14-25	1.3	2

18	Crowdsourced feature tagging for scalable and privacy-preserved autism diagnosis		2
17	Game theoretic centrality: a novel approach to prioritize disease candidate genes by combining biological networks with the Shapley value. *BMC Bioinformatics*, **2020**, 21, 356	3.6	2
16	Children with Autism and Their Typically Developing Siblings Differ in Amplicon Sequence Variants and Predicted Functions of Stool-Associated Microbes. *MSystems*, **2021**, 6,	7.6	2
15	Leveraging video data from a digital smartphone autism therapy to train an emotion detection classifier		2
14	Training Affective Computer Vision Models by Crowdsourcing Soft-Target Labels. *Cognitive Computation*, **2021**, 13, 1363	4.4	2
13	Identification of Social Engagement Indicators Associated With Autism Spectrum Disorder Using a Game-Based Mobile App: Comparative Study of Gaze Fixation and Visual Scanning Methods.. *Journal of Medical Internet Research*, **2022**, 24, e31830	7.6	2
12	Rising interdisciplinary collaborations refine our understanding of autisms and give hope to more personalized solutions. *Personalized Medicine*, **2015**, 12, 359-369	2.2	1
11	Detecting biological network organization and functional gene orthologs. *Bioinformatics*, **2011**, 27, 2919-20	7.2	1
10	Deriving clinical action from whole-genome analysis. *Personalized Medicine*, **2012**, 9, 247-252	2.2	1
9	Crowdsourced study of children with autism and their typically developing siblings identifies differences in taxonomic and predicted function for stool-associated microbes using exact sequence variant analysis		1
8	Improved Digital Therapy for Developmental Pediatrics using Domain-Specific Artificial Intelligence: Machine Learning Study (Preprint)		1
7	GapMap: Enabling Comprehensive Autism Resource Epidemiology. *JMIR Public Health and Surveillance*, **2017**, 3, e27	11.4	1
6	Estimating sequencing error rates using families. *BioData Mining*, **2021**, 14, 27	4.3	1
5	Crowd Annotations Can Approximate Clinical Autism Impressions from Short Home Videos with Privacy Protections		1
4	Analysis of Sex and Recurrence Ratios in Simplex and Multiplex Autism Spectrum Disorder Implicates Sex-Specific Alleles as Inheritance Mechanism **2018**,		1
3	Crowd annotations can approximate clinical autism impressions from short home videos with privacy protections. *Intelligence-based Medicine*, **2022**, 100056	2.7	0
2	Classifying Autism From Crowdsourced Semistructured Speech Recordings: Machine Learning Model Comparison Study.. *JMIR Pediatrics and Parenting*, **2022**, 5, e35406	4.2	0
1	A maximum flow-based network approach for identification of stable noncoding biomarkers associated with the multigenic neurological condition, autism. *BioData Mining*, **2021**, 14, 28	4.3	