Giri Narasimhan

List of Publications by Year in Descending Order

135 papers	**2,303** citations	**26** h-index	**45** g-index
169 ext. papers	**2,908** ext. citations	**2.9** avg, IF	**4.81** L-index

#	Paper	IF	Citations
135	Guest Editors Introduction to the Special Section on Bioinformatics Research and Applications. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2022**, 19, 207-208	3	
134	Causal effects in microbiomes using interventional calculus. *Scientific Reports*, **2021**, 11, 5724	4.9	4
133	Dynamic Bayesian Networks for Integrating Multi-omics Time Series Microbiome Data. *MSystems*, **2021**, 6,	7.6	10
132	Effect of metronidazole on vaginal microbiota associated with asymptomatic bacterial vaginosis. *Access Microbiology*, **2021**, 3, 000226	1	0
131	Causal Inference Methods and their Challenges: The Case of 311 Data **2021**,		2
130	Mutation-induced changes in the receptor-binding interface of the SARS-CoV-2 Delta variant B.1.617.2 and implications for immune evasion. *Biochemical and Biophysical Research Communications*, **2021**, 574, 14-19	3.4	23
129	So you think you can PLS-DA?. *BMC Bioinformatics*, **2020**, 21, 2	3.6	44
128	Effects of Various Alpha-1 Antitrypsin Supplement Dosages on the Lung Microbiome and Metabolome. *Lecture Notes in Computer Science*, **2020**, 90-101	0.9	
127	The gut microbiome and neuropsychiatric disorders: implications for attention deficit hyperactivity disorder (ADHD). *Journal of Medical Microbiology*, **2020**, 69, 14-24	3.2	19
126	Inferring directional relationships in microbial communities using signed Bayesian networks. *BMC Genomics*, **2020**, 21, 663	4.5	5
125	MATria: a unified centrality algorithm. *BMC Bioinformatics*, **2019**, 20, 278	3.6	1
124	Dynamic interaction network inference from longitudinal microbiome data. *Microbiome*, **2019**, 7, 54	16.6	29
123	Large scale microbiome profiling in the cloud. *Bioinformatics*, **2019**, 35, i13-i22	7.2	3
122	Bioinformatics Approach to Assess the Biogeographical Patterns of Soil Communities: The Utility for Soil Provenance. *Journal of Forensic Sciences*, **2018**, 63, 1033-1042	1.8	14
121	Constructing lightweight and flexible pipelines using Plugin-Based Microbiome Analysis (PluMA). *Bioinformatics*, **2018**, 34, 2881-2888	7.2	1
120	So you think you can PLS-DA? **2018**,		3
119	Inferring Relationships in Microbiomes from Signed Bayesian Networks **2018**,		7

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118	Can SLE classification rules be effectively applied to diagnose unclear SLE cases?. *Lupus*, **2017**, 26, 150-162	6.6	4
117	ATria: a novel centrality algorithm applied to biological networks. *BMC Bioinformatics*, **2017**, 18, 239	3.6	7
116	Metagenomics, Metatranscriptomics, and Metabolomics Approaches for Microbiome Analysis. *Evolutionary Bioinformatics*, **2016**, 12, 5-16	1.9	140
115	Gene expression patterns in transgenic mouse models of hypertrophic cardiomyopathy caused by mutations in myosin regulatory light chain. *Archives of Biochemistry and Biophysics*, **2016**, 601, 121-32	4.1	6
114	Planar Geometric Spanners **2016**, 1570-1574		
113	Microbiome Analysis: State of the Art and Future Trends **2016**, 401-424		3
112	GPUDePiCt: A Parallel Implementation of a Clustering Algorithm for Computing Degenerate Primers on Graphics Processing Units. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2015**, 12, 445-54	3	4
111	Automatic Construction of 3-D Building Model From Airborne LIDAR Data Through 2-D Snake Algorithm. *IEEE Transactions on Geoscience and Remote Sensing*, **2015**, 53, 3-14	8.1	28
110	Microbial "social networks". *BMC Genomics*, **2015**, 16 Suppl 11, S6	4.5	26
109	Computational Methods in Epigenetics **2015**, 153-180		
108	Current concepts in the pathogenesis and treatment of chronic suppurative otitis media. *Journal of Medical Microbiology*, **2015**, 64, 1103-1116	3.2	96
107	Structural and functional characterization of Pseudomonas aeruginosa global regulator AmpR. *Journal of Bacteriology*, **2014**, 196, 3890-902	3.5	26
106	Deep sequencing analyses expands the Pseudomonas aeruginosa AmpR regulon to include small RNA-mediated regulation of iron acquisition, heat shock and oxidative stress response. *Nucleic Acids Research*, **2014**, 42, 979-98	20.1	45
105	Better primer design for metagenomics applications by increasing taxonomic distinguishability. *BMC Proceedings*, **2013**, 7, S4	2.3	11
104	Comment on "On the Uniqueness of Stable Marriage Matchings" [Economic Letters 69(1):1-8, 2000]. *Economics Letters*, **2013**, 121, 468	1.3	1
103	Transcriptional response of mucoid Pseudomonas aeruginosa to human respiratory mucus. *MBio*, **2013**, 3, e00410-12	7.8	30
102	The regulatory repertoire of Pseudomonas aeruginosa AmpC ß-actamase regulator AmpR includes virulence genes. *PLoS ONE*, **2012**, 7, e34067	3.7	82
101	Gene Function Prediction and Functional Network: The Role of Gene Ontology. *Intelligent Systems Reference Library*, **2012**, 123-162	0.8	1

100	CloG: A pipeline for closing gaps in a draft assembly using short reads **2011**,		3
99	Combination of 16S rRNA variable regions provides a detailed analysis of bacterial community dynamics in the lungs of cystic fibrosis patients. *Human Genomics*, **2010**, 4, 147-69	6.8	6
98	Serial evolutionary networks of within-patient HIV-1 sequences reveal patterns of evolution of X4 strains. *BMC Systems Biology*, **2009**, 3, 62	3.5	3
97	Region-restricted clustering for geographic data mining. *Computational Geometry: Theory and Applications*, **2009**, 42, 231-240	0.4	1
96	On the dilation spectrum of paths, cycles, and trees. *Computational Geometry: Theory and Applications*, **2009**, 42, 923-933	0.4	2
95	Weighted Consensus Clustering for Identifying Functional Modules in Protein-Protein Interaction Networks **2009**,		4
94	Approaches to analyse dynamic microbial communities such as those seen in cystic fibrosis lung. *Human Genomics*, **2009**, 3, 246-56	6.8	10
93	Influence of irrigated agriculture on soil microbial diversity. *Applied Soil Ecology*, **2008**, 40, 146-154	5	26
92	Dynamics of Pseudomonas aeruginosa genome evolution. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 3100-5	11.5	367
91	Approximate distance oracles for geometric spanners. *ACM Transactions on Algorithms*, **2008**, 4, 1-34	1.2	11
90	The role of internal node sequences and the molecular clock in the analysis of serially-sampled data. *International Journal of Bioinformatics Research and Applications*, **2008**, 4, 107-21	0.9	1
89	ESTIMATING SUPPORT FOR PROTEIN-PROTEIN INTERACTION DATA WITH APPLICATIONS TO FUNCTION PREDICTION **2008**,		6
88	Distance-preserving approximations of polygonal paths. *Computational Geometry: Theory and Applications*, **2007**, 36, 183-196	0.4	10
87	A Graph Reduction Method for 2D Snake Problems **2007**,		4
86	On the Effectiveness of Constraints Sets in Clustering Genes **2007**,		2
85	SBLAST: Structural Basic Local Alignment Searching Tools using Geometric Hashing **2007**,		1
84	Sliding MinPD: building evolutionary networks of serial samples via an automated recombination detection approach. *Bioinformatics*, **2007**, 23, 2993-3000	7.2	6
83	IEM: AN ALGORITHM FOR ITERATIVE ENHANCEMENT OF MOTIFS USING COMPARATIVE GENOMICS DATA **2007**,		3

#	Reference	IF	Cites
82	PlasmoTFBM: An Intelligent Queriable Database for Predicted Transcription Factor Binding Motifs in Plasmodium falciparum **2007**, 121-136		
81	Searching for Recombinant Donors in a Phylogenetic Network of Serial Samples **2007**, 109-120		
80	Enhancing Motif Refinement by Incorporating Comparative Genomics Data **2007**, 329-337		
79	Geometric Spanner Networks **2007**,		173
78	IEM: an algorithm for iterative enhancement of motifs using comparative genomics data. *Computational Systems Bioinformatics / Life Sciences Society Computational Systems Bioinformatics Conference*, **2007**, 6, 227-35		4
77	Discovering Sequence-Structure Patterns in Proteins with Variable Secondary Structure. *Lecture Notes in Computer Science*, **2006**, 702-709	0.9	
76	Serial NetEvolve: a flexible utility for generating serially-sampled sequences along a tree or recombinant network. *Bioinformatics*, **2006**, 22, 2313-4	7.2	6
75	Enhancement of protein thermal stability: toward the design of robust proteins for bionanotechnological applications **2006**, 117-139		3
74	An eco-informatics tool for microbial community studies: supervised classification of Amplicon Length Heterogeneity (ALH) profiles of 16S rRNA. *Journal of Microbiological Methods*, **2006**, 65, 49-62	2.8	18
73	Identification of Cacao TIR-NBS-LRR Resistance Gene Homologues and Their Use as Genetic Markers. *Journal of the American Society for Horticultural Science*, **2006**, 131, 806-813	2.3	4
72	Pooling Evidence to Identify Cell Cycle Regulated Genes. *Lecture Notes in Computer Science*, **2006**, 694-701	0.9	
71	Reconstructing Ancestor-Descendant Lineages from Serially-Sampled Data: A Comparison Study. *Lecture Notes in Computer Science*, **2006**, 807-814	0.9	0
70	Region-Restricted Clustering for Geographic Data Mining. *Lecture Notes in Computer Science*, **2006**, 399-410	0.9	6
69	Clustering genes using gene expression and text literature data **2005**, 329-40		3
68	A Knowledge-Driven Method to Evaluate Multi-source Clustering. *Lecture Notes in Computer Science*, **2005**, 196-202	0.9	
67	Clustering Using Adaptive Self-organizing Maps (ASOM) and Applications. *Lecture Notes in Computer Science*, **2005**, 944-951	0.9	1
66	Rational design of thermally stable proteins: relevance to bionanotechnology. *Journal of Nanoscience and Nanotechnology*, **2005**, 5, 1759-67	1.3	31
65	Distinct transcriptional profiles characterize oral epithelium-microbiota interactions. *Cellular Microbiology*, **2005**, 7, 811-23	3.9	89

64	Microarray Data Analysis Using Neural Network Classifiers and Gene Selection Methods **2005**, 207-222		4
63	Fast Pruning of Geometric Spanners. *Lecture Notes in Computer Science*, **2005**, 508-520	0.9	7
62	Exact and Approximation Algorithms for Computing the Dilation Spectrum of Paths, Trees, and Cycles. *Lecture Notes in Computer Science*, **2005**, 849-858	0.9	
61	Approximating geometric bottleneck shortest paths. *Computational Geometry: Theory and Applications*, **2004**, 29, 233-249	0.4	29
60	Alginate production affects Pseudomonas aeruginosa biofilm development and architecture, but is not essential for biofilm formation. *Journal of Medical Microbiology*, **2004**, 53, 679-690	3.2	125
59	MinPD: distance-based phylogenetic analysis and recombination detection of serially-sampled HIV quasispecies **2004**, 110-9		5
58	BALANCED PARTITION OF MINIMUM SPANNING TREES. *International Journal of Computational Geometry and Applications*, **2003**, 13, 303-316	0.3	2
57	Detection of DNA-binding helix-turn-helix motifs in proteins using the pattern dictionary method. *Methods in Enzymology*, **2003**, 370, 250-64	1.7	4
56	Distance-Preserving Approximations of Polygonal Paths. *Lecture Notes in Computer Science*, **2003**, 217-228	0.9	4
55	Degenerate primer design via clustering **2003**, 2, 75-83		13
54	Optimally computing a shortest weakly visible line segment inside a simple polygon. *Computational Geometry: Theory and Applications*, **2002**, 23, 1-29	0.4	3
53	Graph-theoretic techniques in D-optimal design problems. *Journal of Statistical Planning and Inference*, **2002**, 102, 377-387	0.8	3
52	Improved Algorithms for Constructing Fault-Tolerant Spanners. *Algorithmica*, **2002**, 32, 144-156	0.9	33
51	Mining protein sequences for motifs. *Journal of Computational Biology*, **2002**, 9, 707-20	1.7	55
50	Fast Greedy Algorithms for Constructing Sparse Geometric Spanners. *SIAM Journal on Computing*, **2002**, 31, 1479-1500	1.1	71
49	Balanced Partition of Minimum Spanning Trees. *Lecture Notes in Computer Science*, **2002**, 26-35	0.9	1
48	Approximate Distance Oracles Revisited. *Lecture Notes in Computer Science*, **2002**, 357-368	0.9	17
47	Multiple comparisons model-based clustering and ternary pattern tree numerical display of gene response to treatment: procedure and application to the preclinical evaluation of chemopreventive agents. *Molecular Cancer Therapeutics*, **2002**, 1, 1283-92	6.1	9

List of Publications