

# Yann Ponty

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6039743/publications.pdf>

Version: 2024-02-01

61  
papers

2,035  
citations

567281

15  
h-index

276875

41  
g-index

70  
all docs

70  
docs citations

70  
times ranked

2814  
citing authors

#	ARTICLE	IF	CITATIONS
1	VARNA: Interactive drawing and editing of the RNA secondary structure. <i>Bioinformatics</i> , 2009, 25, 1974-1975.	4.1	1,094
2	ecceTERA: comprehensive gene tree-species tree reconciliation using parsimony. <i>Bioinformatics</i> , 2016, 32, 2056-2058.	4.1	98
3	The SARS-CoV-2 subgenome landscape and its novel regulatory features. <i>Molecular Cell</i> , 2021, 81, 2135-2147.e5.	9.7	72
4	GenRGenS: software for generating random genomic sequences and structures. <i>Bioinformatics</i> , 2006, 22, 1534-1535.	4.1	62
5	DIAL: a web server for the pairwise alignment of two RNA three-dimensional structures using nucleotide, dihedral angle and base-pairing similarities. <i>Nucleic Acids Research</i> , 2007, 35, W659-W668.	14.5	55
6	Effective Rotation-Invariant Point CNN with Spherical Harmonics Kernels. , 2019, , .		53
7	Protein-Protein Interactions in a Crowded Environment: An Analysis via Cross-Docking Simulations and Evolutionary Information. <i>PLoS Computational Biology</i> , 2013, 9, e1003369.	3.2	48
8	A weighted sampling algorithm for the design of RNA sequences with targeted secondary structure and nucleotide distribution. <i>Bioinformatics</i> , 2013, 29, i308-i315.	4.1	38
9	Design of RNAs: comparing programs for inverse RNA folding. <i>Briefings in Bioinformatics</i> , 2018, 19, bbw120.	6.5	35
10	A global sampling approach to designing and reengineering RNA secondary structures. <i>Nucleic Acids Research</i> , 2012, 40, 10041-10052.	14.5	32
11	DeCoSTAR: Reconstructing the Ancestral Organization of Genes or Genomes Using Reconciled Phylogenies. <i>Genome Biology and Evolution</i> , 2017, 9, 1312-1319.	2.5	32
12	Asymptotics of RNA Shapes. <i>Journal of Computational Biology</i> , 2008, 15, 31-63.	1.6	30
13	Expected distance between terminal nucleotides of RNA secondary structures. <i>Journal of Mathematical Biology</i> , 2012, 65, 581-599.	1.9	30
14	Efficient sampling of RNA secondary structures from the Boltzmann ensemble of low-energy. <i>Journal of Mathematical Biology</i> , 2007, 56, 107-127.	1.9	29
15	Two ribosome recruitment sites direct multiple translation events within HIV1 Gag open reading frame. <i>Nucleic Acids Research</i> , 2017, 45, 7382-7400.	14.5	28
16	Using the Fast Fourier Transform to Accelerate the Computational Search for RNA Conformational Switches. <i>PLoS ONE</i> , 2012, 7, e50506.	2.5	19
17	Controlled non-uniform random generation of decomposable structures. <i>Theoretical Computer Science</i> , 2010, 411, 3527-3552.	0.9	15
18	Estimating seed sensitivity on homogeneous alignments. , 0, , .		14

#	ARTICLE	IF	CITATIONS
19	Efficient approximations of RNA kinetics landscape using non-redundant sampling. <i>Bioinformatics</i> , 2017, 33, i283-i292.	4.1	14
20	An Unbiased Adaptive Sampling Algorithm for the Exploration of RNA Mutational Landscapes Under Evolutionary Pressure. <i>Journal of Computational Biology</i> , 2011, 18, 1465-1479.	1.6	13
21	Impact of the Energy Model on the Complexity of RNA Folding with Pseudoknots. <i>Lecture Notes in Computer Science</i> , 2012, , 321-333.	1.3	13
22	SPARCS: a web server to analyze (un)structured regions in coding RNA sequences. <i>Nucleic Acids Research</i> , 2013, 41, W480-W485.	14.5	13
23	Fixed-parameter tractable sampling for RNA design with multiple target structures. <i>BMC Bioinformatics</i> , 2019, 20, 209.	2.6	13
24	Drawing and Editing the Secondary Structure(s) of RNA. <i>Methods in Molecular Biology</i> , 2015, 1269, 63-100.	0.9	12
25	Multi-dimensional Boltzmann Sampling of Languages. <i>Discrete Mathematics and Theoretical Computer Science</i> , 2010, DMTCS Proceedings vol. AM,...., .	0.1	12
26	Combinatorial RNA Design: Designability and Structure-Approximating Algorithm in Watsonâ€Crick and Nussinovâ€Jacobson Energy Models. <i>Algorithmica</i> , 2017, 79, 835-856.	1.3	11
27	A Combinatorial Framework for Designing (Pseudoknotted) RNA Algorithms. <i>Lecture Notes in Computer Science</i> , 2011, , 250-269.	1.3	11
28	Evolution of genes neighborhood within reconciled phylogenies: an ensemble approach. <i>BMC Bioinformatics</i> , 2015, 16, S6.	2.6	10
29	<a href="#">incaRNAfbinv</a> : a web server for the fragment-based design of RNA sequences. <i>Nucleic Acids Research</i> , 2016, 44, W308-W314.	14.5	10
30	IPANEMAP: integrative probing analysis of nucleic acids empowered by multiple accessibility profiles. <i>Nucleic Acids Research</i> , 2020, 48, 8276-8289.	14.5	9
31	LocalMove: computing on-lattice fits for biopolymers. <i>Nucleic Acids Research</i> , 2008, 36, W216-W222.	14.5	8
32	The BRaliBase dentâ€a tale of benchmark design and interpretation. <i>Briefings in Bioinformatics</i> , 2017, 18, bbw022.	6.5	8
33	Tree Decomposition and Parameterized Algorithms for RNA Structure-Sequence Alignment Including Tertiary Interactions and Pseudoknots. <i>Lecture Notes in Computer Science</i> , 2012, , 149-164.	1.3	8
34	Introduction to RNA Secondary Structure Comparison. <i>Methods in Molecular Biology</i> , 2014, 1097, 247-273.	0.9	7
35	Reference-free transcriptome signatures for prostate cancer prognosis. <i>BMC Cancer</i> , 2021, 21, 394.	2.6	6
36	Progress toward SHAPE Constrained Computational Prediction of Tertiary Interactions in RNA Structure. <i>Non-coding RNA</i> , 2021, 7, 71.	2.6	6

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37	Flexible RNA design under structure and sequence constraints using formal languages. , 2013, , .		5
38	Combining structure probing data on RNA mutants with evolutionary information reveals RNA-binding interfaces. Nucleic Acids Research, 2016, 44, e104-e104.	14.5	5
39	Stochastic Sampling of Structural Contexts Improves the Scalability and Accuracy of RNA 3D Module Identification. Lecture Notes in Computer Science, 2020, , 186-201.	1.3	4
40	Meet-U: Educating through research immersion. PLoS Computational Biology, 2018, 14, e1005992.	3.2	4
41	The weighted words collector. Discrete Mathematics and Theoretical Computer Science, 2012, DMTCS Proceedings vol. AQ,,,,, .	0.1	4
42	Non-redundant random generation algorithms for weighted context-free grammars. Theoretical Computer Science, 2013, 502, 177-194.	0.9	3
43	Counting, Generating, Analyzing and Sampling Tree Alignments. International Journal of Foundations of Computer Science, 2018, 29, 741-767.	1.1	3
44	RNAxplorer: harnessing the power of guiding potentials to sample RNA landscapes. Bioinformatics, 2021, 37, 2126-2133.	4.1	3
45	Combinatorial RNA Design: Designability and Structure-Approximating Algorithm. Lecture Notes in Computer Science, 2015, , 231-246.	1.3	3
46	Small-World Networks and RNA Secondary Structures. Journal of Computational Biology, 2019, 26, 16-26.	1.6	2
47	Counting and sampling gene family evolutionary histories in the duplication-loss and duplication-loss-transfer models. Journal of Mathematical Biology, 2020, 80, 1353-1388.	1.9	2
48	<tt>incaRNAfbinv 2.0</tt>: a webserver and software with motif control for fragment-based design of RNAs. Bioinformatics, 2020, 36, 2920-2922.	4.1	2
49	Evolution of Genes Neighborhood within Reconciled Phylogenies: An Ensemble Approach. Lecture Notes in Computer Science, 2014, , 49-56.	1.3	2
50	On the diversity of pattern distributions in rational language.. , 2012, , .		2
51	Tree diet: reducing the treewidth to unlock FPT algorithms in RNA bioinformatics. Algorithms for Molecular Biology, 2022, 17, 8.	1.2	2
52	Using Structural and Evolutionary Information to Detect and Correct Pyrosequencing Errors in Noncoding RNAs. Journal of Computational Biology, 2013, 20, 905-919.	1.6	1
53	Taming reluctant random walks in the positive quadrant. Electronic Notes in Discrete Mathematics, 2017, 59, 99-114.	0.4	1
54	Assessing the Robustness of Parsimonious Predictions for Gene Neighborhoods from Reconciled Phylogenies: Supplementary Material. Lecture Notes in Computer Science, 2015, , 260-271.	1.3	1

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55	Culminating paths. Discrete Mathematics and Theoretical Computer Science, 0, Vol. 10 no. 2, .	0.1	1
56	An Unbiased Adaptive Sampling Algorithm for the Exploration of RNA Mutational Landscapes under Evolutionary Pressure. Lecture Notes in Computer Science, 2011, , 501-515.	1.3	1
57	Counting, Generating and Sampling Tree Alignments. Lecture Notes in Computer Science, 2016, , 53-64.	1.3	1
58	Preface. Journal of Computational Biology, 2015, 22, 189-189.	1.6	0
59	Sequence Graphs Realizations and Ambiguity in Language Models. Lecture Notes in Computer Science, 2021, , 153-163.	1.3	0
60	Advanced Design of Structural RNAs Using RNARedPrint. Methods in Molecular Biology, 2021, 2284, 1-15.	0.9	0
61	Exponentially Few RNA Structures are Designable. , 2019, , .		0