Fredrik Ronquist

List of Publications by Year in Descending Order

105 papers	68,665 citations	49 h-index	115 g-index
115 ext. papers	77,216 ext. citations	6.4 avg, IF	8.29 L-index

#	Paper	IF	Citations
105	Compiling Universal Probabilistic Programming Languages with Efficient Parallel Sequential Monte Carlo Inference. *Lecture Notes in Computer Science*, **2022**, 29-56	0.9	2
104	Awakening a taxonomist's third eye: exploring the utility of computer vision and deep learning in insect systematics. *Systematic Entomology*, **2021**, 46, 757-766	3.4	2
103	Phylogenetic reconstruction of ancestral ecological networks through time for pierid butterflies and their host plants. *Ecology Letters*, **2021**, 24, 2134-2145	10	1
102	Scuttling towards monophyly: phylogeny of the mega-diverse genus Megaselia (Diptera: Phoridae). *Systematic Entomology*, **2021**, 46, 71-82	3.4	2
101	Universal probabilistic programming offers a powerful approach to statistical phylogenetics. *Communications Biology*, **2021**, 4, 244	6.7	4
100	Connecting high-throughput biodiversity inventories: Opportunities for a site-based genomic framework for global integration and synthesis. *Molecular Ecology*, **2021**, 30, 1120-1135	5.7	8
99	The effect of ethanol concentration on the morphological and molecular preservation of insects for biodiversity studies. *PeerJ*, **2021**, 9, e10799	3.1	7
98	Bayesian Inference of Ancestral Host-Parasite Interactions under a Phylogenetic Model of Host Repertoire Evolution. *Systematic Biology*, **2020**, 69, 1149-1162	8.4	12
97	Completing Linnaeus's inventory of the Swedish insect fauna: Only 5,000 species left?. *PLoS ONE*, **2020**, 15, e0228561	3.7	12
96	The Swedish Malaise Trap Project: A 15 Year Retrospective on a Countrywide Insect Inventory. *Biodiversity Data Journal*, **2020**, 8, e47255	1.8	29
95	The data of the Swedish Malaise Trap Project, a countrywide inventory of Sweden's insect fauna. *Biodiversity Data Journal*, **2020**, 8, e56286	1.8	4
94	Using Parsimony-Guided Tree Proposals to Accelerate Convergence in Bayesian Phylogenetic Inference. *Systematic Biology*, **2020**, 69, 1016-1032	8.4	10
93	From Inquilines to Gall Inducers: Genomic Signature of a Life-Style Transition in Synergus Gall Wasps. *Genome Biology and Evolution*, **2020**, 12, 2060-2073	3.9	3
92	Completing Linnaeus inventory of the Swedish insect fauna: Only 5,000 species left? **2020**, 15, e0228561		
91	Completing Linnaeus inventory of the Swedish insect fauna: Only 5,000 species left? **2020**, 15, e0228561		
90	Completing Linnaeus inventory of the Swedish insect fauna: Only 5,000 species left? **2020**, 15, e0228561		
89	Completing Linnaeus inventory of the Swedish insect fauna: Only 5,000 species left? **2020**, 15, e0228561		

88	Automated Taxonomic Identification of Insects with Expert-Level Accuracy Using Effective Feature Transfer from Convolutional Networks. *Systematic Biology*, **2019**, 68, 876-895	8.4	55
87	Establishing arthropod community composition using metabarcoding: Surprising inconsistencies between soil samples and preservative ethanol and homogenate from Malaise trap catches. *Molecular Ecology Resources*, **2019**, 19, 1516-1530	8.4	30
86	New mitochondrial primers for metabarcoding of insects, designed and evaluated using in silico methods. *Molecular Ecology Resources*, **2019**, 19, 90-104	8.4	33
85	RevBayes: Bayesian Phylogenetic Inference Using Graphical Models and an Interactive Model-Specification Language. *Systematic Biology*, **2016**, 65, 726-36	8.4	295
84	A mixed relaxed clock model. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2016**, 371,	5.8	36
83	Closing the gap between rocks and clocks using total-evidence dating. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2016**, 371,	5.8	66
82	An Efficient Independence Sampler for Updating Branches in Bayesian Markov chain Monte Carlo Sampling of Phylogenetic Trees. *Systematic Biology*, **2016**, 65, 161-76	8.4	8
81	Xenacoelomorpha is the sister group to Nephrozoa. *Nature*, **2016**, 530, 89-93	50.4	210
80	Total-Evidence Dating under the Fossilized Birth-Death Process. *Systematic Biology*, **2016**, 65, 228-49	8.4	188
79	A Nonstationary Markov Model Detects Directional Evolution in Hymenopteran Morphology. *Systematic Biology*, **2015**, 64, 1089-103	8.4	40
78	Phylogeny of the parasitic wasp subfamily Euphorinae (Braconidae) and evolution of its host preferences. *Systematic Entomology*, **2015**, 40, 570-591	3.4	28
77	Phylogeny, evolution and classification of gall wasps: the plot thickens. *PLoS ONE*, **2015**, 10, e0123301	3.7	75
76	A new species group in Megaselia, the lucifrons group, with description of a new species (Diptera, Phoridae). *ZooKeys*, **2015**, 89-108	1.2	4
75	Probabilistic graphical model representation in phylogenetics. *Systematic Biology*, **2014**, 63, 753-71	8.4	63
74	Convergent intron gains in hymenopteran elongation factor-1 *Molecular Phylogenetics and Evolution*, **2013**, 67, 266-76	4.1	13
73	"Forms" of water mites (Acari: Hydrachnidia): intraspecific variation or valid species?. *Ecology and Evolution*, **2013**, 3, 3415-35	2.8	22
72	Bayesian tests of topology hypotheses with an example from diving beetles. *Systematic Biology*, **2013**, 62, 660-73	8.4	76
71	The hymenopteran tree of life: evidence from protein-coding genes and objectively aligned ribosomal data. *PLoS ONE*, **2013**, 8, e69344	3.7	84

70	BEAGLE: an application programming interface and high-performance computing library for statistical phylogenetics. *Systematic Biology*, **2012**, 61, 170-3	8.4	374
69	MrBayes 3.2: efficient Bayesian phylogenetic inference and model choice across a large model space. *Systematic Biology*, **2012**, 61, 539-42	8.4	14368
68	A total-evidence approach to dating with fossils, applied to the early radiation of the hymenoptera. *Systematic Biology*, **2012**, 61, 973-99	8.4	547
67	Skeletal morphology of Opius dissitus and Biosteres carbonarius (Hymenoptera: Braconidae), with a discussion of terminology. *PLoS ONE*, **2012**, 7, e32573	3.7	32
66	Phylogenetic relationships among superfamilies of Hymenoptera. *Cladistics*, **2012**, 28, 80-112	3.5	117
65	A hymenopteristsguide to the Hymenoptera Anatomy Ontology: utility, clarification, and future directions. *Journal of Hymenoptera Research*, **2012**, 27, 67-88	0	53
64	Phylogenetic Methods in Biogeography. *Annual Review of Ecology, Evolution, and Systematics*, **2011**, 42, 441-464	13.5	176
63	Revision of the Western Palearctic Meteorini (Hymenoptera, Braconidae), with a molecular characterization of hidden Fennoscandian species diversity. *Zootaxa*, **2011**, 3084, 1	0.5	31
62	Evolution of the hymenopteran megaradiation. *Molecular Phylogenetics and Evolution*, **2011**, 60, 73-88	4.1	144
61	Inferring speciation and extinction rates under different sampling schemes. *Molecular Biology and Evolution*, **2011**, 28, 2577-89	8.3	95
60	Bayesian island biogeography in a continental setting: the Rand Flora case. *Biology Letters*, **2010**, 6, 703-7	3.6	67
59	Bayesian phylogenetics and its influence on insect systematics. *Annual Review of Entomology*, **2010**, 55, 189-206	21.8	41
58	Inferring dispersal: a Bayesian approach to phylogeny-based island biogeography, with special reference to the Canary Islands. *Journal of Biogeography*, **2008**, 35, 428-449	4.1	175
57	Quasimodoana, a new Holarctic genus of eucoiline wasps (Hymenoptera, Cynipoidea, Figitidae), with a phylogenetic analysis of related genera. *Systematic Entomology*, **2008**, 33, 301-318	3.4	5
56	Efficiency of Markov chain Monte Carlo tree proposals in Bayesian phylogenetics. *Systematic Biology*, **2008**, 57, 86-103	8.4	94
55	A Bayesian perspective on a non-parsimonious parsimony model. *Systematic Biology*, **2008**, 57, 406-19	8.4	21
54	Bayesian analysis of amino acid substitution models. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2008**, 363, 3941-53	5.8	39
53	A fully web-illustrated morphological phylogenetic study of relationships among oak gall wasps and their closest relatives (Hymenoptera: Cynipidae). *Zootaxa*, **2008**, 1796, 1	0.5	90

52	Heterotachy processes in rhodophyte-derived secondhand plastid genes: Implications for addressing the origin and evolution of dinoflagellate plastids. *Molecular Biology and Evolution*, **2006**, 23, 1504-15	8.3	48
51	Comment on "Phylogenetic MCMC algorithms are misleading on mixtures of trees". *Science*, **2006**, 312, 367; author reply 367	33.3	15
50	Bayesian Analysis of Molecular Evolution Using MrBayes **2005**, 183-226		127
49	Comparative morphology of terminal-instar larvae of Cynipoidea: phylogenetic implications. *Zoologica Scripta*, **2005**, 34, 15-36	2.5	31
48	Parallel Metropolis coupled Markov chain Monte Carlo for Bayesian phylogenetic inference. *Bioinformatics*, **2004**, 20, 407-15	7.2	803
47	Bayesian inference of the metazoan phylogeny; a combined molecular and morphological approach. *Current Biology*, **2004**, 14, 1644-9	6.3	100
46	Bayesian phylogenetic analysis of combined data. *Systematic Biology*, **2004**, 53, 47-67	8.4	1437
45	Bayesian inference of character evolution. *Trends in Ecology and Evolution*, **2004**, 19, 475-81	10.9	259
44	Southern hemisphere biogeography inferred by event-based models: plant versus animal patterns. *Systematic Biology*, **2004**, 53, 216-43	8.4	700
43	Bayesian Supertrees. *Computational Biology*, **2004**, 193-224	0.7	14
42	Revision of the neotropical Anacharitinae genus Acanthaegilips (Hym., Cynipoidea, Figitidae). *Papeis Avulsos De Zoologia*, **2003**, 43, 11	0.3	9
41	Morphology and evolution of the cynipoid egg (Hymenoptera). *Zoological Journal of the Linnean Society*, **2003**, 139, 247-260	2.4	18
40	MrBayes 3: Bayesian phylogenetic inference under mixed models. *Bioinformatics*, **2003**, 19, 1572-4	7.2	23258
39	Taxonomy and biodiversity inventories: time to deliver. *Trends in Ecology and Evolution*, **2003**, 18, 269-270	10.9	19
38	A maximum-likelihood analysis of eight phylogenetic markers in gallwasps (Hymenoptera: Cynipidae): implications for insect phylogenetic studies. *Molecular Phylogenetics and Evolution*, **2002**, 22, 206-19	4.1	91
37	Potential applications and pitfalls of Bayesian inference of phylogeny. *Systematic Biology*, **2002**, 51, 673-88	8.4	657
36	Bayesian inference of phylogeny and its impact on evolutionary biology. *Science*, **2001**, 294, 2310-4	33.3	2114
35	Patterns of animal dispersal, vicariance and diversification in the Holarctic. *Biological Journal of the Linnean Society*, **2001**, 73, 345-390	1.9	261

34	A new subfamily of Figitidae (Hymenoptera, Cynipoidea). *Zoological Journal of the Linnean Society*, **2001**, 133, 483-494	2.4	15
33	Phylogeny of Polygonia, Nymphalis and related butterflies (Lepidoptera: Nymphalidae): a total-evidence analysis. *Zoological Journal of the Linnean Society*, **2001**, 132, 441-468	2.4	34
32	Evolution of the gall wasp-host plant association. *Evolution; International Journal of Organic Evolution*, **2001**, 55, 2503-22	3.8	139
31	EVOLUTION OF THE GALL WASP□HOST PLANT ASSOCIATION. *Evolution; International Journal of Organic Evolution*, **2001**, 55, 2503	3.8	98
30	MRBAYES: Bayesian inference of phylogenetic trees. *Bioinformatics*, **2001**, 17, 754-5	7.2	17826
29	Redescription of Acanthaegilips Ashmead, 1897, with characterization of the Anacharitinae and Aspiceratinae (Hymenoptera: Cynipoidea: Figitidae). *Zoological Journal of the Linnean Society*, **2000**, 129, 467-488	2.4	18
28	The shifting roles of dispersal and vicariance in biogeography. *Proceedings of the Royal Society B: Biological Sciences*, **2000**, 267, 497-503	4.4	107
27	Phylogeny of the Hymenoptera (Insecta): The state of the art. *Zoologica Scripta*, **1999**, 28, 3-11	2.5	43
26	Phylogeny, classification and evolution of the Cynipoidea. *Zoologica Scripta*, **1999**, 28, 139-164	2.5	188
25	Phylogeny of the Hymenoptera: A cladistic reanalysis of Rasnitsyn□ (1988) data. *Zoologica Scripta*, **1999**, 28, 13-50	2.5	150
24	Three-Dimensional Cost-Matrix Optimization and Maximum Cospeciation.. *Cladistics*, **1998**, 14, 167-172	3.5	30
23	Fast Fitch-Parsimony Algorithms for Large Data Sets.. *Cladistics*, **1998**, 14, 387-400	3.5	26
22	A phylogenetic analysis of higher-level gall wasp relationships (Hymenoptera: Cynipidae). *Systematic Entomology*, **1998**, 23, 229-252	3.4	101
21	Fast Fitch-Parsimony Algorithms for Large Data Sets **1998**, 14, 387		4
20	Dispersal-Vicariance Analysis: A New Approach to the Quantification of Historical Biogeography. *Systematic Biology*, **1997**, 46, 195-203	8.4	1178
19	Phylogenetic approaches in coevolution and biogeography. *Zoologica Scripta*, **1997**, 26, 313-322	2.5	91
18	Phylogeny and historical biogeography of the cynipoid wasp family Ibaliidae (Hymenoptera). *Systematic Entomology*, **1996**, 21, 151-166	3.4	48
17	Matrix Representation of Trees, Redundancy, and Weighting. *Systematic Biology*, **1996**, 45, 247-253	8.4	65

16	Ancestral Areas Revisited. *Systematic Biology*, **1995**, 44, 572-575	8.4	21
15	RECONSTRUCTING THE HISTORY OF HOST-PARASITE ASSOCIATIONS USING GENERALISED PARSIMONY.. *Cladistics*, **1995**, 11, 73-89	3.5	92
14	Phylogeny and early evolution of the Cynipoidea (Hymenoptera). *Systematic Entomology*, **1995**, 20, 309-335	3.4	117
13	Ancestral Areas and Parsimony. *Systematic Biology*, **1994**, 43, 267	8.4	10
12	Ancestral Areas and Parsimony. *Systematic Biology*, **1994**, 43, 267-274	8.4	89
11	Evolution of Parasitism among Closely Related Species: Phylogenetic Relationships and the Origin of Inquilinism in Gall Wasps (Hymenoptera, Cynipidae). *Evolution; International Journal of Organic Evolution*, **1994**, 48, 241	3.8	57
10	EVOLUTION OF PARASITISM AMONG CLOSELY RELATED SPECIES: PHYLOGENETIC RELATIONSHIPS AND THE ORIGIN OF INQUILINISM IN GALL WASPS (HYMENOPTERA, CYNIPIDAE). *Evolution; International Journal of Organic Evolution*, **1994**, 48, 241-266	3.8	69
9	Free amino Acid composition of leaf exudates and Phloem sap : a comparative study in oats and barley. *Plant Physiology*, **1990**, 92, 222-6	6.6	121
8	Process and Pattern in the Evolution of Species Associations. *Systematic Zoology*, **1990**, 39, 323		56
7	Life history of Parnips and the evolutionary origin of gall wasps. *Journal of Hymenoptera Research* ,65, 91-110	0	2
6	Establishing insect community composition using metabarcoding of soil samples, and preservative ethanol and homogenate from Malaise trap catches: surprising inconsistencies between methods		2
5	Bayesian inference of ancestral host-parasite interactions under a phylogenetic model of host repertoire evolution		1
4	The effect of ethanol concentration on the morphological and molecular preservation of insects for biodiversity studies		2
3	Universal probabilistic programming offers a powerful approach to statistical phylogenetics		4
2	Large-scale Integrative Taxonomy (LIT): resolving the data conundrum for dark taxa		6
1	Phylogenetic reconstruction of ancestral ecological networks through time for pierid butterflies and their host plants		1