## Frederick A Matsen Iv

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Comprehensive characterization of the antibody responses to SARS-CoV-2 Spike protein finds additional vaccine-induced epitopes beyond those for mild infection. ELife, 2022, 11, .	6.0	19
2	Combining genotypes and T cell receptor distributions to infer genetic loci determining V(D)J recombination probabilities. ELife, 2022, 11, .	6.0	12
3	Detailed analysis of antibody responses to SARS-CoV-2 vaccination and infection in macaques. PLoS Pathogens, 2022, 18, e1010155.	4.7	6
4	Distinct Antibody Responses to Endemic Coronaviruses Pre- and Post-SARS-CoV-2 Infection in Kenyan Infants and Mothers. Viruses, 2022, 14, 1517.	3.3	8
5	Enabling Inference for Context-Dependent Models of Mutation by Bounding the Propagation of Dependency. Journal of Computational Biology, 2022, 29, 802-824.	1.6	0
6	Nonbifurcating Phylogenetic Tree Inference via the Adaptive LASSO. Journal of the American Statistical Association, 2021, 116, 858-873.	3.1	1
7	Development of antibody-dependent cell cytotoxicity function in HIV-1 antibodies. ELife, 2021, 10, .	6.0	3
8	Estimation of cell lineage trees by maximum-likelihood phylogenetics. Annals of Applied Statistics, 2021, 15, .	1.1	12
9	High-resolution profiling of pathways of escape for SARS-CoV-2 spike-binding antibodies. Cell, 2021, 184, 2927-2938.e11.	28.9	35
10	Assessing the Value to the Patient of New Technologies in Anatomic Total Shoulder Arthroplasty. Journal of Bone and Joint Surgery - Series A, 2021, 103, 761-770.	3.0	16
11	Epitope profiling reveals binding signatures of SARS-CoV-2 immune response in natural infection and cross-reactivity with endemic human CoVs. Cell Reports, 2021, 35, 109164.	6.4	44
12	Functional development of a V3/glycan-specific broadly neutralizing antibody isolated from a case of HIV superinfection. ELife, 2021, 10, .	6.0	6
13	Shoulder Hemiarthroplasty with Nonprosthetic Glenoid Arthroplasty. JBJS Reviews, 2021, 9, .	2.0	13
14	SARS-CoV-2 Antibody Binding and Neutralization in Dried Blood Spot Eluates and Paired Plasma. Microbiology Spectrum, 2021, 9, e0129821.	3.0	15
15	Oral and IV Antibiotic Administration After Single-Stage Revision Shoulder Arthroplasty. Journal of Bone and Joint Surgery - Series A, 2021, Publish Ahead of Print, .	3.0	4
16	Subluxation in the Arthritic Shoulder. JBJS Reviews, 2021, 9, .	2.0	4
17	OGRDB: a reference database of inferred immune receptor genes. Nucleic Acids Research, 2020, 48, D964-D970.	14.5	30
18	On the convergence of the maximum likelihood estimator for the transition rate under a 2-state symmetric model. Journal of Mathematical Biology, 2020, 80, 1119-1138.	1.9	0

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19	Lack of Evidence for a Substantial Rate of Templated Mutagenesis in B Cell Diversification. Journal of Immunology, 2020, 205, 936-944.	0.8	1
20	A Bayesian phylogenetic hidden Markov model for B cell receptor sequence analysis. PLoS Computational Biology, 2020, 16, e1008030.	3.2	20
21	Efficacy of Home Prophylactic Benzoyl Peroxide and Chlorhexidine in Shoulder Surgery. JBJS Reviews, 2020, 8, e20.00023.	2.0	3
22	Diversity and Function of Maternal HIV-1-Specific Antibodies at the Time of Vertical Transmission. Journal of Virology, 2020, 94, .	3.4	11
23	Dynamics of HIV DNA reservoir seeding in a cohort of superinfected Kenyan women. PLoS Pathogens, 2020, 16, e1008286.	4.7	41
24	Anatomic Total Shoulder Arthroplasty with All-Polyethylene Glenoid Component for Primary Osteoarthritis with Glenoid Deficiencies. JBJS Open Access, 2020, 5, e20.00002-e20.00002.	1.5	12
25	Using B cell receptor lineage structures to predict affinity. PLoS Computational Biology, 2020, 16, e1008391.	3.2	13
26	Using B cell receptor lineage structures to predict affinity. , 2020, 16, e1008391.		0
27	Using B cell receptor lineage structures to predict affinity. , 2020, 16, e1008391.		Ο
28	Using B cell receptor lineage structures to predict affinity. , 2020, 16, e1008391.		0
29	Using B cell receptor lineage structures to predict affinity. , 2020, 16, e1008391.		0
30	Using B cell receptor lineage structures to predict affinity. , 2020, 16, e1008391.		0
31	Using B cell receptor lineage structures to predict affinity. , 2020, 16, e1008391.		Ο
32	Per-sample immunoglobulin germline inference from B cell receptor deep sequencing data. PLoS Computational Biology, 2019, 15, e1007133.	3.2	51
33	Survival analysis of DNA mutation motifs with penalized proportional hazards. Annals of Applied Statistics, 2019, 13, 1268-1294.	1.1	8
34	Joint Maximum Likelihood of Phylogeny and Ancestral States Is Not Consistent. Molecular Biology and Evolution, 2019, 36, 2352-2357.	8.9	5
35	Kappa chain maturation helps drive rapid development of an infant HIV-1 broadly neutralizing antibody lineage. Nature Communications, 2019, 10, 2190.	12.8	31
36	SANTA-SIM: simulating viral sequence evolution dynamics under selection and recombination. Virus Evolution, 2019, 5, vez003.	4.9	26

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37	sumrep: A Summary Statistic Framework for Immune Receptor Repertoire Comparison and Model Validation. Frontiers in Immunology, 2019, 10, 2533.	4.8	22
38	Calculating the Unrooted Subtree Prune-and-Regraft Distance. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 898-911.	3.0	11
39	Deep generative models for T cell receptor protein sequences. ELife, 2019, 8, .	6.0	60
40	Using Genotype Abundance to Improve Phylogenetic Inference. Molecular Biology and Evolution, 2018, 35, 1253-1265.	8.9	55
41	Preoperative Skin-Surface Cultures Can Help to Predict the Presence of Propionibacterium in Shoulder Arthroplasty Wounds. JBJS Open Access, 2018, 3, e0052.	1.5	30
42	Effective Online Bayesian Phylogenetics via Sequential Monte Carlo with Guided Proposals. Systematic Biology, 2018, 67, 490-502.	5.6	29
43	Online Bayesian Phylogenetic Inference: Theoretical Foundations via Sequential Monte Carlo. Systematic Biology, 2018, 67, 503-517.	5.6	21
44	A Surrogate Function for One-Dimensional Phylogenetic Likelihoods. Molecular Biology and Evolution, 2018, 35, 242-246.	8.9	4
45	Tanglegrams: A Reduction Tool for Mathematical Phylogenetics. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 343-349.	3.0	7
46	The combinatorics of discrete time-trees: theory and open problems. Journal of Mathematical Biology, 2018, 76, 1101-1121.	1.9	14
47	Benchmarking Tree and Ancestral Sequence Inference for B Cell Receptor Sequences. Frontiers in Immunology, 2018, 9, 2451.	4.8	26
48	Human T cell receptor occurrence patterns encode immune history, genetic background, and receptor specificity. ELife, 2018, 7, .	6.0	124
49	Predicting B cell receptor substitution profiles using public repertoire data. PLoS Computational Biology, 2018, 14, e1006388.	3.2	8
50	The Bayesian optimist's guide to adaptive immune receptor repertoire analysis. Immunological Reviews, 2018, 284, 148-166.	6.0	12
51	Consistency and convergence rate of phylogenetic inference via regularization. Annals of Statistics, 2018, 46, 1481-1512.	2.6	5
52	Comment on "A Database of Human Immune Receptor Alleles Recovered from Population Sequencing Data― Journal of Immunology, 2017, 198, 3371-3373.	0.8	46
53	On the enumeration of tanglegrams and tangled chains. Journal of Combinatorial Theory - Series A, 2017, 146, 239-263.	0.8	7
54	Ricci–Ollivier curvature of the rooted phylogenetic subtree–prune–regraft graph. Theoretical Computer Science, 2017, 699, 1-20.	0.9	10

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55	Does Postoperative Glenoid Retroversion Affect the 2-Year Clinical and Radiographic Outcomes for Total Shoulder Arthroplasty?. Clinical Orthopaedics and Related Research, 2017, 475, 2726-2739.	1.5	53
56	Functional Outcomes of the Ream-and-Run Shoulder Arthroplasty. Journal of Bone and Joint Surgery - Series A, 2017, 99, 1999-2003.	3.0	25
57	Reproducibility and Reuse of Adaptive Immune Receptor Repertoire Data. Frontiers in Immunology, 2017, 8, 1418.	4.8	102
58	What Factors are Predictive of Patient-reported Outcomes? A Prospective Study of 337 Shoulder Arthroplasties. Clinical Orthopaedics and Related Research, 2016, 474, 2496-2510.	1.5	90
59	Consistency of VDJ Rearrangement and Substitution Parameters Enables Accurate B Cell Receptor Sequence Annotation. PLoS Computational Biology, 2016, 12, e1004409.	3.2	130
60	Likelihood-Based Inference of B Cell Clonal Families. PLoS Computational Biology, 2016, 12, e1005086.	3.2	93
61	Bacterial Composition of the Human Upper Gastrointestinal Tract Microbiome Is Dynamic and Associated with Genomic Instability in a Barrett's Esophagus Cohort. PLoS ONE, 2015, 10, e0129055.	2.5	107
62	Non-Human Primates Harbor Diverse Mammalian and Avian Astroviruses Including Those Associated with Human Infections. PLoS Pathogens, 2015, 11, e1005225.	4.7	68
63	Quantifying MCMC Exploration of Phylogenetic Tree Space. Systematic Biology, 2015, 64, 472-491.	5.6	71
64	The evolution within us. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140235.	4.0	34
65	Quantifying evolutionary constraints on B-cell affinity maturation. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140244.	4.0	45
66	Phylogenetics and the Human Microbiome. Systematic Biology, 2015, 64, e26-e41.	5.6	36
67	Propionibacterium Persists in the Skin Despite Standard Surgical Preparation. Journal of Bone and Joint Surgery - Series A, 2014, 96, 1447-1450.	3.0	150
68	Minimizing the Average Distance to a Closest Leaf in a Phylogenetic Tree. Systematic Biology, 2013, 62, 824-836.	5.6	11
69	High-throughput sequencing of B- and T-lymphocyte antigen receptors in hematology. Blood, 2013, 122, 19-22.	1.4	33
70	The mean and variance of phylogenetic diversity under rarefaction. Methods in Ecology and Evolution, 2013, 4, 566-572.	5.2	50
71	HIV-1 Superinfection Occurs Less Frequently Than Initial Infection in a Cohort of High-Risk Kenyan Women. PLoS Pathogens, 2013, 9, e1003593.	4.7	41
72	nestly—a framework for running software with nested parameter choices and aggregating results. Bioinformatics, 2013, 29, 387-388.	4.1	7

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#	Article	IF	CITATIONS
73	Zoonotic simian foamy virus in Bangladesh reflects diverse patterns of transmission and co-infection. Emerging Microbes and Infections, 2013, 2, 1-10.	6.5	39
74	Ubiquity of synonymity: almost all large binary trees are not uniquely identified by their spectra or their immanantal polynomials. Algorithms for Molecular Biology, 2012, 7, 14.	1.2	7
75	A Format for Phylogenetic Placements. PLoS ONE, 2012, 7, e31009.	2.5	60
76	pplacer: linear time maximum-likelihood and Bayesian phylogenetic placement of sequences onto a fixed reference tree. BMC Bioinformatics, 2010, 11, 538.	2.6	901
77	constNJ: An Algorithm to Reconstruct Sets of Phylogenetic Trees Satisfying Pairwise Topological Constraints. Journal of Computational Biology, 2010, 17, 799-818.	1.6	0
78	A Method for Investigating Relative Timing Information on Phylogenetic Trees. Systematic Biology, 2009, 58, 167-183.	5.6	30
79	Healing of reamed glenoid bone articulating with a metal humeral hemiarthroplasty: A canine model. Journal of Orthopaedic Research, 2005, 23, 18-26.	2.3	55