

# Francis K C Hui

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

5,031  
citations

279798

23  
h-index

155660

55  
g-index

65  
all docs

65  
docs citations

65  
times ranked

8096  
citing authors

#	ARTICLE	IF	CITATIONS
1	The arcsine is asinine: the analysis of proportions in ecology. <i>Ecology</i> , 2011, 92, 3-10.	3.2	1,801
2	Plant functional traits have globally consistent effects on competition. <i>Nature</i> , 2016, 529, 204-207.	27.8	655
3	So Many Variables: Joint Modeling in Community Ecology. <i>Trends in Ecology and Evolution</i> , 2015, 30, 766-779.	8.7	607
4	A comprehensive evaluation of predictive performance of 33 species distribution models at species and community levels. <i>Ecological Monographs</i> , 2019, 89, e01370.	5.4	290
5	<sc>boral</sc> â€“ Bayesian Ordination and Regression Analysis of Multivariate Abundance Data in <sc>r</sc>. <i>Methods in Ecology and Evolution</i> , 2016, 7, 744-750.	5.2	226
6	Model-based approaches to unconstrained ordination. <i>Methods in Ecology and Evolution</i> , 2015, 6, 399-411.	5.2	195
7	Correlations between physical and chemical defences in plants: tradeoffs, syndromes, or just many different ways to skin a herbivorous cat?. <i>New Phytologist</i> , 2013, 198, 252-263.	7.3	124
8	Joint species distribution models with species correlations and imperfect detection. <i>Ecology</i> , 2019, 100, e02754.	3.2	94
9	gllvm: Fast analysis of multivariate abundance data with generalized linear latent variable models in <sc>r</sc>. <i>Methods in Ecology and Evolution</i> , 2019, 10, 2173-2182.	5.2	88
10	To mix or not to mix: comparing the predictive performance of mixture models vs. separate species distribution models. <i>Ecology</i> , 2013, 94, 1913-1919.	3.2	80
11	Untangling direct species associations from indirect mediator species effects with graphical models. <i>Methods in Ecology and Evolution</i> , 2019, 10, 1571-1583.	5.2	57
12	Finite Mixture of Regression Modeling for High-Dimensional Count and Biomass Data in Ecology. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2013, 18, 357-375.	1.4	52
13	Variational Approximations for Generalized Linear Latent Variable Models. <i>Journal of Computational and Graphical Statistics</i> , 2017, 26, 35-43.	1.7	51
14	Tuning Parameter Selection for the Adaptive Lasso Using ERIC. <i>Journal of the American Statistical Association</i> , 2015, 110, 262-269.	3.1	50
15	Fine-scale hydrological niche differentiation through the lens of multi-species co-occurrence models. <i>Journal of Ecology</i> , 2015, 103, 1264-1275.	4.0	47
16	Generalized Linear Latent Variable Models for Multivariate Count and Biomass Data in Ecology. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2017, 22, 498-522.	1.4	47
17	Efficient estimation of generalized linear latent variable models. <i>PLoS ONE</i> , 2019, 14, e0216129.	2.5	45
18	The Effect of Seasonal Ambient Temperatures on Fire-Stimulated Germination of Species with Physiological Dormancy: A Case Study Using <i>Boronia</i> (Rutaceae). <i>PLoS ONE</i> , 2016, 11, e0156142.	2.5	42

#	ARTICLE	IF	CITATIONS
19	Plant community composition and species richness in the High Arctic tundra: From the present to the future. <i>Ecology and Evolution</i> , 2017, 7, 10233-10242.	1.9	37
20	Uncovering the drivers of host-associated microbiota with joint species distribution modelling. <i>Molecular Ecology</i> , 2018, 27, 2714-2724.	3.9	36
21	Joint Selection in Mixed Models using Regularized PQL. <i>Journal of the American Statistical Association</i> , 2017, 112, 1323-1333.	3.1	33
22	The central role of mean-covariance relationships in the analysis of multivariate abundance data: a response to Roberts (2017). <i>Methods in Ecology and Evolution</i> , 2017, 8, 1408-1414.	5.2	33
23	Roses are red, violets are blue - so how much replication should you do? An assessment of variation in the colour of flowers and birds. <i>Biological Journal of the Linnean Society</i> , 2015, 114, 69-81.	1.6	26
24	Extending Joint Models in Community Ecology: A Response to Beissinger et al .. <i>Trends in Ecology and Evolution</i> , 2016, 31, 737-738.	8.7	24
25	A general algorithm for covariance modeling of discrete data. <i>Journal of Multivariate Analysis</i> , 2018, 165, 86-100.	1.0	22
26	Order Selection and Sparsity in Latent Variable Models via the Ordered Factor LASSO. <i>Biometrics</i> , 2018, 74, 1311-1319.	1.4	22
27	An Overview of Modern Applications of Negative Binomial Modelling in Ecology and Biodiversity. <i>Diversity</i> , 2022, 14, 320.	1.7	21
28	Multi-species distribution modeling using penalized mixture of regressions. <i>Annals of Applied Statistics</i> , 2015, 9, .	1.1	20
29	Identifying main interactions in marine predator-prey networks of the Bay of Biscay. <i>ICES Journal of Marine Science</i> , 2019, 76, 2247-2259.	2.5	20
30	Positive interspecific associations consistent with social information use shape juvenile fish assemblages. <i>Ecology</i> , 2020, 101, e02920.	3.2	19
31	Order selection in finite mixture models: complete or observed likelihood information criteria?. <i>Biometrika</i> , 2015, 102, 724-730.	2.4	15
32	Diversity of small-scale fisheries in Chile: Environmental patterns and biogeography can inform fisheries management. <i>Environmental Science and Policy</i> , 2021, 124, 33-44.	4.9	13
33	Successional syndromes of saplings in tropical secondary forests emerge from environment-dependent trait-demography relationships. <i>Ecology Letters</i> , 2021, 24, 1776-1787.	6.4	12
34	Model-based ordination of pin-point cover data: Effect of management on dry heathland. <i>Ecological Informatics</i> , 2020, 60, 101155.	5.2	11
35	Analyzing environmental-trait interactions in ecological communities with fourth-corner latent variable models. <i>Environmetrics</i> , 2021, 32, e2683.	1.4	11
36	Metacommunity ecology of Symbiodiniaceae hosted by the coral <i>Galaxea fascicularis</i> . <i>Marine Ecology - Progress Series</i> , 2020, 633, 71-87.	1.9	11

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37	Fast model-based ordination with copulas. <i>Methods in Ecology and Evolution</i> , 2022, 13, 194-202.	5.2	11
38	Model-based simultaneous clustering and ordination of multivariate abundance data in ecology. <i>Computational Statistics and Data Analysis</i> , 2017, 105, 1-10.	1.2	10
39	Semiparametric Regression Using Variational Approximations. <i>Journal of the American Statistical Association</i> , 2019, 114, 1765-1777.	3.1	10
40	Model-based ordination for species with unequal niche widths. <i>Methods in Ecology and Evolution</i> , 2021, 12, 1288-1300.	5.2	9
41	Reliably discriminating stock structure with genetic markers: Mixture models with robust and fast computation. <i>Molecular Ecology Resources</i> , 2018, 18, 1310-1325.	4.8	8
42	Testing random effects in linear mixed models: another look at the F-test (with discussion). <i>Australian and New Zealand Journal of Statistics</i> , 2019, 61, 61-84.	0.9	6
43	Random Effects Misspecification Can Have Severe Consequences for Random Effects Inference in Linear Mixed Models. <i>International Statistical Review</i> , 2021, 89, 186-206.	1.9	6
44	Sparse Pairwise Likelihood Estimation for Multivariate Longitudinal Mixed Models. <i>Journal of the American Statistical Association</i> , 2018, 113, 1759-1769.	3.1	5
45	What is the effective sample size of a spatial point process?. <i>Australian and New Zealand Journal of Statistics</i> , 2021, 63, 144-158.	0.9	4
46	Spatial Confounding in Generalized Estimating Equations. <i>American Statistician</i> , 2022, 76, 238-247.	1.6	3
47	Nonparametric bootstrap tests of conditional independence in two-way contingency tables. <i>Journal of Multivariate Analysis</i> , 2012, 112, 130-144.	1.0	2
48	GEE-Assisted Variable Selection for Latent Variable Models with Multivariate Binary Data. <i>Journal of the American Statistical Association</i> , 2023, 118, 1252-1263.	3.1	2
49	The LASSO on latent indices for regression modeling with ordinal categorical predictors. <i>Computational Statistics and Data Analysis</i> , 2020, 149, 106951.	1.2	2
50	Sufficient dimension reduction for clustered data via finite mixture modelling. <i>Australian and New Zealand Journal of Statistics</i> , 2022, 64, 133-157.	0.9	2
51	Screening Methods for Linear Errors-in-Variables Models in High Dimensions. <i>Biometrics</i> , 2023, 79, 926-939.	1.4	2
52	MIXING IT UP: NEW METHODS FOR FINITE MIXTURE MODELLING OF MULTI-SPECIES DATA IN ECOLOGY. <i>Bulletin of the Australian Mathematical Society</i> , 2016, 93, 167-168.	0.5	1
53	On goodness-of-fit measures for Poisson regression models. <i>Australian and New Zealand Journal of Statistics</i> , 2020, 62, 340-366.	0.9	1
54	Assuming independence in spatial latent variable models: Consequences and implications of misspecification. <i>Biometrics</i> , 2022, 78, 85-99.	1.4	1

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55	On the use of a penalized quaslikelihood information criterion for generalized linear mixed models. <i>Biometrika</i> , 2021, 108, 353-365.	2.4	1
56	GEE-Assisted Forward Regression for Spatial Latent Variable Models. <i>Journal of Computational and Graphical Statistics</i> , 2022, 31, 1013-1024.	1.7	1
57	A nonparametric measure of local association for two-way contingency tables. <i>Computational Statistics and Data Analysis</i> , 2013, 68, 98-110.	1.2	0
58	A shared parameter mixture model for longitudinal income data with missing responses and zero rounding. <i>Australian and New Zealand Journal of Statistics</i> , 2021, 63, 221-240.	0.9	0
59	Estimation of graphical models for skew continuous data. <i>Scandinavian Journal of Statistics</i> , 0, , .	1.4	0