Francis K C Hui

List of Publications by Year
in descending order

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	GEE-Assisted Variable Selection for Latent Variable Models with Multivariate Binary Data. Journal of the American Statistical Association, 2023, 118, 1252-1263.	3.1	2
2	Screening Methods for Linear Errors-in-Variables Models in High Dimensions. Biometrics, 2023, 79, 926-939.	1.4	2
3	Assuming independence in spatial latent variable models: Consequences and implications of misspecification. Biometrics, 2022, 78, 85-99.	1.4	1
4	Fast model-based ordination with copulas. Methods in Ecology and Evolution, 2022, 13, 194-202.	5.2	11
5	Spatial Confounding in Generalized Estimating Equations. American Statistician, 2022, 76, 238-247.	1.6	3
6	Sufficient dimension reduction for clustered data via finite mixture modelling. Australian and New Zealand Journal of Statistics, 2022, 64, 133-157.	0.9	2
7	GEE-Assisted Forward Regression for Spatial Latent Variable Models. Journal of Computational and Graphical Statistics, 2022, 31, 1013-1024.	1.7	1
8	An Overview of Modern Applications of Negative Binomial Modelling in Ecology and Biodiversity. Diversity, 2022, 14, 320.	1.7	21
9	Random Effects Misspecification Can Have Severe Consequences for Random Effects Inference in Linear Mixed Models. International Statistical Review, 2021, 89, 186-206.	1.9	6
10	On the use of a penalized quasilikelihood information criterion for generalized linear mixed models. Biometrika, 2021, 108, 353-365.	2.4	1
11	What is the effective sample size of a spatial point process?. Australian and New Zealand Journal of Statistics, 2021, 63, 144-158.	0.9	4
12	Analyzing environmental-trait interactions in ecological communities with fourth-corner latent variable models. Environmetrics, 2021, 32, e2683.	1.4	11
13	Model-based ordination for species with unequal niche widths. Methods in Ecology and Evolution, 2021, 12, 1288-1300.	5.2	9
14	Successional syndromes of saplings in tropical secondary forests emerge from environment-dependent trait-demography relationships. Ecology Letters, 2021, 24, 1776-1787.	6.4	12
15	A shared parameter mixture model for longitudinal income data with missing responses and zero rounding. Australian and New Zealand Journal of Statistics, 2021, 63, 221-240.	0.9	0
16	Diversity of small-scale fisheries in Chile: Environmental patterns and biogeography can inform fisheries management. Environmental Science and Policy, 2021, 124, 33-44.	4.9	13
17	Positive interspecific associations consistent with social information use shape juvenile fish assemblages. Ecology, 2020, 101, e02920.	3.2	19
18	On goodness-of-fit measures for Poisson regression models. Australian and New Zealand Journal of Statistics, 2020, 62, 340-366.	0.9	1

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19	Model-based ordination of pin-point cover data: Effect of management on dry heathland. Ecological Informatics, 2020, 60, 101155.	5.2	11
20	Metacommunity ecology of Symbiodiniaceae hosted by the coral Galaxea fascicularis. Marine Ecology - Progress Series, 2020, 633, 71-87.	1.9	11
21	The LASSO on latent indices for regression modeling with ordinal categorical predictors. Computational Statistics and Data Analysis, 2020, 149, 106951.	1.2	2
22	Identifying main interactions in marine predator–prey networks of the Bay of Biscay. ICES Journal of Marine Science, 2019, 76, 2247-2259.	2.5	20
23	Untangling direct species associations from indirect mediator species effects with graphical models. Methods in Ecology and Evolution, 2019, 10, 1571-1583.	5.2	57
24	gllvm: Fast analysis of multivariate abundance data with generalized linear latent variable models in <scp>r</scp>. Methods in Ecology and Evolution, 2019, 10, 2173-2182.	5.2	88
25	Efficient estimation of generalized linear latent variable models. PLoS ONE, 2019, 14, e0216129.	2.5	45
26	Joint species distribution models with species correlations and imperfect detection. Ecology, 2019, 100, e02754.	3.2	94
27	A comprehensive evaluation of predictive performance of 33 species distribution models at species and community levels. Ecological Monographs, 2019, 89, e01370.	5.4	290
28	Testing random effects in linear mixed models: another look at the F–test (with discussion). Australian and New Zealand Journal of Statistics, 2019, 61, 61-84.	0.9	6
29	Semiparametric Regression Using Variational Approximations. Journal of the American Statistical Association, 2019, 114, 1765-1777.	3.1	10
30	Sparse Pairwise Likelihood Estimation for Multivariate Longitudinal Mixed Models. Journal of the American Statistical Association, 2018, 113, 1759-1769.	3.1	5
31	A general algorithm for covariance modeling of discrete data. Journal of Multivariate Analysis, 2018, 165, 86-100.	1.0	22
32	Uncovering the drivers of host–associated microbiota with joint species distribution modelling. Molecular Ecology, 2018, 27, 2714-2724.	3.9	36
33	Reliably discriminating stock structure with genetic markers: Mixture models with robust and fast computation. Molecular Ecology Resources, 2018, 18, 1310-1325.	4.8	8
34	Order Selection and Sparsity in Latent Variable Models via the Ordered Factor LASSO. Biometrics, 2018, 74, 1311-1319.	1.4	22
35	Variational Approximations for Generalized Linear Latent Variable Models. Journal of Computational and Graphical Statistics, 2017, 26, 35-43.	1.7	51
36	Generalized Linear Latent Variable Models for Multivariate Count and Biomass Data in Ecology. Journal of Agricultural, Biological, and Environmental Statistics, 2017, 22, 498-522.	1.4	47

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37	Plant community composition and species richness in the High Arctic tundra: From the present to the future. Ecology and Evolution, 2017, 7, 10233-10242.	1.9	37
38	Joint Selection in Mixed Models using Regularized PQL. Journal of the American Statistical Association, 2017, 112, 1323-1333.	3.1	33
39	Model-based simultaneous clustering and ordination of multivariate abundance data in ecology. Computational Statistics and Data Analysis, 2017, 105, 1-10.	1.2	10
40	The central role of mean–variance relationships in the analysis of multivariate abundance data: a response to Roberts (2017). Methods in Ecology and Evolution, 2017, 8, 1408-1414.	5.2	33
41	MIXING IT UP: NEW METHODS FOR FINITE MIXTURE MODELLING OF MULTI-SPECIES DATA IN ECOLOGY. Bulletin of the Australian Mathematical Society, 2016, 93, 167-168.	0.5	1
42	Extending Joint Models in Community Ecology: A Response to Beissinger et al .. Trends in Ecology and Evolution, 2016, 31, 737-738.	8.7	24
43	<scp>boral</scp> â€" Bayesian Ordination and Regression Analysis of Multivariate Abundance Data in <scp>r</scp>. Methods in Ecology and Evolution, 2016, 7, 744-750.	5.2	226
44	Plant functional traits have globally consistent effects on competition. Nature, 2016, 529, 204-207.	27.8	655
45	The Effect of Seasonal Ambient Temperatures on Fire-Stimulated Germination of Species with Physiological Dormancy: A Case Study Using Boronia (Rutaceae). PLoS ONE, 2016, 11, e0156142.	2.5	42
46	Multi-species distribution modeling using penalized mixture of regressions. Annals of Applied Statistics, 2015, 9, .	1.1	20
47	Fine–scale hydrological niche differentiation through the lens of multi–species co–occurrence models. Journal of Ecology, 2015, 103, 1264-1275.	4.0	47
48	Tuning Parameter Selection for the Adaptive Lasso Using ERIC. Journal of the American Statistical Association, 2015, 110, 262-269.	3.1	50
49	Order selection in finite mixture models: complete or observed likelihood information criteria?. Biometrika, 2015, 102, 724-730.	2.4	15
50	So Many Variables: Joint Modeling in Community Ecology. Trends in Ecology and Evolution, 2015, 30, 766-779.	8.7	607
51	Roses are red, violets are blue - so how much replication should you do? An assessment of variation in the colour of flowers and birds. Biological Journal of the Linnean Society, 2015, 114, 69-81.	1.6	26
52	Model–based approaches to unconstrained ordination. Methods in Ecology and Evolution, 2015, 6, 399-411.	5.2	195
53	To mix or not to mix: comparing the predictive performance of mixture models vs. separate species distribution models. Ecology, 2013, 94, 1913-1919.	3.2	80
54	A nonparametric measure of local association for two-way contingency tables. Computational Statistics and Data Analysis, 2013, 68, 98-110.	1.2	0

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55	Finite Mixture of Regression Modeling for High-Dimensional Count and Biomass Data in Ecology. Journal of Agricultural, Biological, and Environmental Statistics, 2013, 18, 357-375.	1.4	52
56	Correlations between physical and chemical defences in plants: tradeoffs, syndromes, or just many different ways to skin a herbivorous cat?. New Phytologist, 2013, 198, 252-263.	7.3	124
57	Nonparametric bootstrap tests of conditional independence in two-way contingency tables. Journal of Multivariate Analysis, 2012, 112, 130-144.	1.0	2
58	The arcsine is asinine: the analysis of proportions in ecology. Ecology, 2011, 92, 3-10.	3.2	1,801
59	Estimation of graphical models for skew continuous data. Scandinavian Journal of Statistics, 0, , .	1.4	0