

# Catherine H Graham

## List of Publications by Year in descending order

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Version: 2024-02-01

140  
papers

32,983  
citations

28736

57  
h-index

13274

135  
g-index

151  
all docs

151  
docs citations

151  
times ranked

30746  
citing authors

#	ARTICLE	IF	CITATIONS
1	A heterothermic spectrum in hummingbirds. <i>Journal of Experimental Biology</i> , 2022, 225, .	0.8	14
2	Global plantâ€¦frugivore trait matching is shaped by climate and biogeographic history. <i>Ecology Letters</i> , 2022, 25, 686-696.	3.0	24
3	Environmental niche and functional role similarity between invasive and native palms in the Atlantic Forest. <i>Biological Invasions</i> , 2021, 23, 741-754.	1.2	9
4	Phenological synchronization of seasonal bird migration with vegetation greenness across dietary guilds. <i>Journal of Animal Ecology</i> , 2021, 90, 343-355.	1.3	30
5	Pervasive Genomic Signatures of Local Adaptation to Altitude Across Highland Specialist Andean Hummingbird Populations. <i>Journal of Heredity</i> , 2021, 112, 229-240.	1.0	10
6	Scale dependency of joint species distribution models challenges interpretation of biotic interactions. <i>Journal of Biogeography</i> , 2021, 48, 1541-1551.	1.4	31
7	Spatial variation in direct and indirect effects of climate and productivity on species richness of terrestrial tetrapods. <i>Global Ecology and Biogeography</i> , 2021, 30, 1899-1908.	2.7	17
8	Temporal stability in species richness but reordering in species abundances within avian assemblages of a tropical Andes conservation hot spot. <i>Biotropica</i> , 2021, 53, 1673-1684.	0.8	4
9	Area, isolation and climate explain the diversity of mammals on islands worldwide. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20211879.	1.2	4
10	Presence-only and Presence-absence Data for Comparing Species Distribution Modeling Methods. <i>Biodiversity Informatics</i> , 2020, 15, 69-80.	3.0	38
11	Rapid climate change results in long-lasting spatial homogenization of phylogenetic diversity. <i>Nature Communications</i> , 2020, 11, 4663.	5.8	23
12	Chemical Basis of Floral Color Signals in Gesneriaceae: The Effect of Alternative Anthocyanin Pathways. <i>Frontiers in Plant Science</i> , 2020, 11, 604389.	1.7	8
13	The allometry of daily energy expenditure in hummingbirds: An energy budget approach. <i>Journal of Animal Ecology</i> , 2020, 89, 1254-1261.	1.3	10
14	Hummingbird torpor in context: duration, more than temperature, is the key to nighttime energy savings. <i>Journal of Avian Biology</i> , 2020, 51, .	0.6	22
15	Hummingbirds budget energy flexibly in response to changing resources. <i>Functional Ecology</i> , 2019, 33, 1904-1916.	1.7	19
16	Environmental factors explain the spatial mismatches between species richness and phylogenetic diversity of terrestrial mammals. <i>Global Ecology and Biogeography</i> , 2019, 28, 1855-1865.	2.7	21
17	Survival estimates of bird species across altered habitats in the tropical Andes. <i>Journal of Field Ornithology</i> , 2019, 90, 105-116.	0.3	4
18	Divergent Fine-Scale Recombination Landscapes between a Freshwater and Marine Population of Threespine Stickleback Fish. <i>Genome Biology and Evolution</i> , 2019, 11, 1552-1572.	1.1	44

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19	The productivity-biodiversity relationship varies across diversity dimensions. <i>Nature Communications</i> , 2019, 10, 5691.	5.8	64
20	The Latitudinal Diversity Gradient: Novel Understanding through Mechanistic Eco-evolutionary Models. <i>Trends in Ecology and Evolution</i> , 2019, 34, 211-223.	4.2	151
21	Environment and evolutionary history shape phylogenetic turnover in European tetrapods. <i>Nature Communications</i> , 2019, 10, 249.	5.8	32
22	Species diversity as a surrogate for conservation of phylogenetic and functional diversity in terrestrial vertebrates across the Americas. <i>Nature Ecology and Evolution</i> , 2019, 3, 53-61.	3.4	45
23	Land use change has stronger effects on functional diversity than taxonomic diversity in tropical Andean hummingbirds. <i>Ecology and Evolution</i> , 2018, 8, 3478-3490.	0.8	25
24	Phylogenetic scale in ecology and evolution. <i>Global Ecology and Biogeography</i> , 2018, 27, 175-187.	2.7	151
25	Evolutionary time drives global tetrapod diversity. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20172378.	1.2	32
26	Ecological controls of mammalian diversification vary with phylogenetic scale. <i>Global Ecology and Biogeography</i> , 2018, 27, 32-46.	2.7	27
27	Environmental variation is a major predictor of global trait turnover in mammals. <i>Journal of Biogeography</i> , 2018, 45, 225-237.	1.4	17
28	Comparing species interaction networks along environmental gradients. <i>Biological Reviews</i> , 2018, 93, 785-800.	4.7	203
29	Long-distance migratory birds threatened by multiple independent risks from global change. <i>Nature Climate Change</i> , 2018, 8, 992-996.	8.1	86
30	Do long-distance migratory birds track their niche through seasons?. <i>Journal of Biogeography</i> , 2018, 45, 1459-1468.	1.4	50
31	Towards a predictive model of species interaction beta diversity. <i>Ecology Letters</i> , 2018, 21, 1299-1310.	3.0	30
32	Effects of hummingbird morphology on specialization in pollination networks vary with resource availability. <i>Oikos</i> , 2017, 126, 52-60.	1.2	56
33	Persistent bill and corolla matching despite shifting temporal resources in tropical hummingbird-plant interactions. <i>Ecology Letters</i> , 2017, 20, 326-335.	3.0	78
34	A comparison of Dynamic Habitat Indices derived from different MODIS products as predictors of avian species richness. <i>Remote Sensing of Environment</i> , 2017, 195, 142-152.	4.6	73
35	Future geographic patterns of novel and disappearing assemblages across three dimensions of diversity: A case study with Ecuadorian hummingbirds. <i>Diversity and Distributions</i> , 2017, 23, 944-954.	1.9	16
36	On comparing traits and abundance for predicting species interactions with imperfect detection. <i>Food Webs</i> , 2017, 11, 17-25.	0.5	21

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37	Plant and habitat use by Black-breasted Pufflegs ( <i>Eriocnemis nigrivestis</i> ), a critically endangered hummingbird. <i>Journal of Field Ornithology</i> , 2017, 88, 229-235.	0.3	3
38	The signature of human pressure history on the biogeography of body mass in tetrapods. <i>Global Ecology and Biogeography</i> , 2017, 26, 1022-1034.	2.7	28
39	Global priorities for conservation across multiple dimensions of mammalian diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7641-7646.	3.3	213
40	Regional Diversity and Diversification in Mammals. <i>American Naturalist</i> , 2017, 189, E1-E13.	1.0	11
41	Community functional trait composition at the continental scale: the effects of non-ecological processes. <i>Ecography</i> , 2017, 40, 651-663.	2.1	25
42	Hovering in the heat: effects of environmental temperature on heat regulation in foraging hummingbirds. <i>Royal Society Open Science</i> , 2017, 4, 171056.	1.1	25
43	Geography of current and future global mammal extinction risk. <i>PLoS ONE</i> , 2017, 12, e0186934.	1.1	34
44	The role of environment, dispersal and competition in explaining reduced co-occurrence among related species. <i>PLoS ONE</i> , 2017, 12, e0185493.	1.1	15
45	Species and functional diversity accumulate differently in mammals. <i>Global Ecology and Biogeography</i> , 2016, 25, 1119-1130.	2.7	103
46	Using measurement error models to account for georeferencing error in species distribution models. <i>Ecography</i> , 2016, 39, 305-316.	2.1	18
47	Global mammal beta diversity shows parallel assemblage structure in similar but isolated environments. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161028.	1.2	38
48	Twenty-million-year relationship between mammalian diversity and primary productivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10908-10913.	3.3	42
49	Landscape Demography: Population Change and its Drivers Across Spatial Scales. <i>Quarterly Review of Biology</i> , 2016, 91, 459-485.	0.0	45
50	Winter conditions influence biological responses of migrating hummingbirds. <i>Ecosphere</i> , 2016, 7, e01470.	1.0	9
51	Evaluating broad scale patterns among related species using resource experiments in tropical hummingbirds. <i>Ecology</i> , 2016, 97, 2085-2093.	1.5	7
52	Process-Based Species Pools Reveal the Hidden Signature of Biotic Interactions Amid the Influence of Temperature Filtering. <i>American Naturalist</i> , 2016, 187, 75-88.	1.0	54
53	Citizen-science data provides new insight into annual and seasonal variation in migration patterns. <i>Ecosphere</i> , 2015, 6, 1-19.	1.0	46
54	Niche availability in space and time: migration in <i>Sylvia</i> warblers. <i>Journal of Biogeography</i> , 2015, 42, 1896-1906.	1.4	47

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55	The macroecology of phylogenetically structured hummingbird-plant networks. <i>Global Ecology and Biogeography</i> , 2015, 24, 1212-1224.	2.7	100
56	Demography, traits and vulnerability to urbanization: can we make generalizations?. <i>Journal of Applied Ecology</i> , 2015, 52, 1455-1464.	1.9	20
57	The impact of roads on the avifauna of páramo grasslands in Cajas National Park, Ecuador. <i>Studies on Neotropical Fauna and Environment</i> , 2014, 49, 204-212.	0.5	10
58	Imputation of missing data in life-history trait datasets: which approach performs the best?. <i>Methods in Ecology and Evolution</i> , 2014, 5, 961-970.	2.2	258
59	Taxonomic, Phylogenetic, and Trait Beta Diversity in South American Hummingbirds. <i>American Naturalist</i> , 2014, 184, 211-224.	1.0	77
60	Node-based analysis of species distributions. <i>Methods in Ecology and Evolution</i> , 2014, 5, 1225-1235.	2.2	25
61	The origin and maintenance of montane diversity: integrating evolutionary and ecological processes. <i>Ecography</i> , 2014, 37, 711-719.	2.1	182
62	Environmental correlates of anuran beta diversity in the Brazilian Cerrado. <i>Ecography</i> , 2013, 36, 708-717.	2.1	26
63	An Update of Wallace's Zoogeographic Regions of the World. <i>Science</i> , 2013, 339, 74-78.	6.0	1,037
64	Effects of climate change on species distribution, community structure, and conservation of birds in protected areas in Colombia. <i>Regional Environmental Change</i> , 2013, 13, 235-248.	1.4	107
65	Intra-generic species richness and dispersal ability interact to determine geographic ranges of birds. <i>Global Ecology and Biogeography</i> , 2013, 22, 223-232.	2.7	30
66	How can we bring together empiricists and modellers in functional biodiversity research?. <i>Basic and Applied Ecology</i> , 2013, 14, 93-101.	1.2	24
67	Influence of Patch Factors and Connectivity on the Avifauna of Fragmented <i>Polylepis</i> Forest in the Ecuadorian Andes. <i>Biotropica</i> , 2013, 45, 602-611.	0.8	18
68	Evaluating multiple causes of amphibian declines of Ecuador using geographical quantitative analyses. <i>Ecography</i> , 2013, 36, 756-769.	2.1	29
69	Diversity in time and space: wanted dead and alive. <i>Trends in Ecology and Evolution</i> , 2013, 28, 509-516.	4.2	128
70	Intraspecific morphological and genetic variation of common species predicts ranges of threatened ones. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20130423.	1.2	5
71	Response to Comment on "An Update of Wallace's Zoogeographic Regions of the World". <i>Science</i> , 2013, 341, 343-343.	6.0	15
72	Process, correlation and parameter fitting in species distribution models: a response to Kriticos <i>et al.</i> . <i>Journal of Biogeography</i> , 2013, 40, 612-613.	1.4	8

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73	Latitude, elevational climatic zonation and speciation in New World vertebrates. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 194-201.	1.2	186
74	Climatic niche evolution and species diversification in the <i>Cape</i> flora, <i>South Africa</i> . <i>Journal of Biogeography</i> , 2012, 39, 2201-2211.	1.4	65
75	Mapping the biosphere: exploring species to understand the origin, organization and sustainability of biodiversity. <i>Systematics and Biodiversity</i> , 2012, 10, 1-20.	0.5	182
76	Untangling the influence of ecological and evolutionary factors on trait variation across hummingbird assemblages. <i>Ecology</i> , 2012, 93, S99.	1.5	84
77	Sensitivity of Metrics of Phylogenetic Structure to Scale, Source of Data and Species Pool of Hummingbird Assemblages along Elevational Gradients. <i>PLoS ONE</i> , 2012, 7, e35472.	1.1	18
78	Correlation and process in species distribution models: bridging a dichotomy. <i>Journal of Biogeography</i> , 2012, 39, 2119-2131.	1.4	526
79	Measuring ecological niche overlap from occurrence and spatial environmental data. <i>Global Ecology and Biogeography</i> , 2012, 21, 481-497.	2.7	1,130
80	Species interactions are disrupted by habitat degradation in the highly threatened Tumbesian region of Ecuador. , 2011, 21, 2974-2986.		24
81	Patterns and Magnitude of Temporal Change in Avian Communities in the Ecuadorian Andes. <i>Condor</i> , 2011, 113, 24-40.	0.7	32
82	Contrasting patterns of phylogenetic assemblage structure along the elevational gradient for major hummingbird clades. <i>Journal of Biogeography</i> , 2011, 38, 2350-2361.	1.4	18
83	Mapping evolutionary process: a multi-taxa approach to conservation prioritization. <i>Evolutionary Applications</i> , 2011, 4, 397-413.	1.5	84
84	Geography, topography, and history affect realized vs potential tree species richness patterns in Europe. <i>Ecography</i> , 2010, 33, 1070-1080.	2.1	49
85	Sampling in ecology and evolution – bridging the gap between theory and practice. <i>Ecography</i> , 2010, 33, 1028-1037.	2.1	111
86	Dynamic refugia and species persistence: tracking spatial shifts in habitat through time. <i>Ecography</i> , 2010, 33, 1062-1069.	2.1	97
87	Within-taxon niche structure: niche conservatism, divergence and predicted effects of climate change. <i>Ecography</i> , 2010, 33, 990-1003.	2.1	181
88	New trends in species distribution modelling. <i>Ecography</i> , 2010, 33, 985-989.	2.1	234
89	Assessing the potential impact of invasive ring-necked parakeets <i>Psittacula krameri</i> on native nuthatches <i>Sitta europaea</i> in Belgium. <i>Journal of Applied Ecology</i> , 2010, 47, 549-557.	1.9	44
90	Assessing the impact of deforestation and climate change on the range size and environmental niche of bird species in the Atlantic forests, Brazil. <i>Journal of Biogeography</i> , 2010, 37, 1288-1301.	1.4	40

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91	Reassessment of phylogeographical structure in an eastern North American tree using Monmonier's algorithm and ecological niche modelling. <i>Journal of Biogeography</i> , 2010, 37, 1657-1667.	1.4	46
92	Evaluating the potential causes of range limits of birds of the Colombian Andes. <i>Journal of Biogeography</i> , 2010, 37, 1863-1875.	1.4	33
93	Phylogeography's past, present, and future: 10 years after Avise, 2000. <i>Molecular Phylogenetics and Evolution</i> , 2010, 54, 291-301.	1.2	535
94	Incorporating Clade Identity in Analyses of Phylogenetic Community Structure: An Example with Hummingbirds. <i>American Naturalist</i> , 2010, 176, 573-587.	1.0	40
95	Distribution and conservation of <i>Grallaria</i> and <i>Grallaricula</i> antpittas ( <i>Grallariidae</i> ) in Ecuador. <i>Bird Conservation International</i> , 2010, 20, 410-431.	0.7	9
96	Using behavioral landscape ecology to predict species' responses to land-use and climate change. <i>Biological Conservation</i> , 2010, 143, 1342-1354.	1.9	123
97	Modeling environmentally associated morphological and genetic variation in a rainforest bird, and its application to conservation prioritization. <i>Evolutionary Applications</i> , 2010, 3, 1-16.	1.5	52
98	1.11 Remote Sensing and Geographic Information Systems. , 2009, , 79-86.		1
99	Towards an Understanding of Vertebrate Biodiversity in the Australian Wet Tropics. , 2009, , 133-149.		5
100	Selecting pseudo-absence data for presence-only distribution modeling: How far should you stray from what you know?. <i>Ecological Modelling</i> , 2009, 220, 589-594.	1.2	653
101	Do they? How do they? WHY do they differ? On finding reasons for differing performances of species distribution models. <i>Ecography</i> , 2009, 32, 66-77.	2.1	844
102	Phylogenetic structure in tropical hummingbird communities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 19673-19678.	3.3	341
103	Distribution, ecology and conservation of an endangered Andean hummingbird: the Violet-throated Metal-tail ( <i>Metallura baroni</i> ). <i>Bird Conservation International</i> , 2009, 19, 63-76.	0.7	67
104	Sample selection bias and presence-only distribution models: implications for background and pseudo-absence data. <i>Ecological Applications</i> , 2009, 19, 181-197.	1.8	2,121
105	Identification and dynamics of a cryptic suture zone in tropical rainforest. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 1235-1244.	1.2	141
106	The influence of spatial errors in species occurrence data used in distribution models. <i>Journal of Applied Ecology</i> , 2008, 45, 239-247.	1.9	401
107	Effects of sample size on the performance of species distribution models. <i>Diversity and Distributions</i> , 2008, 14, 763-773.	1.9	1,771
108	Phylogenetic beta diversity: linking ecological and evolutionary processes across space in time. <i>Ecology Letters</i> , 2008, 11, 1265-1277.	3.0	527

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109	Predicting species distributions across the Amazonian and Andean regions using remote sensing data. <i>Journal of Biogeography</i> , 2008, 35, 1160-1176.	1.4	178
110	Integrating GIS-based environmental data into evolutionary biology. <i>Trends in Ecology and Evolution</i> , 2008, 23, 141-148.	4.2	413
111	WHAT MATTERS FOR PREDICTING THE OCCURRENCES OF TREES: TECHNIQUES, DATA, OR SPECIES' CHARACTERISTICS?. <i>Ecological Monographs</i> , 2007, 77, 615-630.	2.4	293
112	Sensitivity of predictive species distribution models to change in grain size. <i>Diversity and Distributions</i> , 2007, 13, 332-340.	1.9	445
113	Novel methods improve prediction of species's distributions from occurrence data. <i>Ecography</i> , 2006, 29, 129-151.	2.1	6,691
114	Phylogeographic Lineages and Species Comparisons in Conservation Analyses: A Case Study of California Herpetofauna. <i>American Naturalist</i> , 2006, 167, 655-666.	1.0	160
115	Habitat history improves prediction of biodiversity in rainforest fauna. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 632-636.	3.3	318
116	Evolutionary and Ecological Causes of the Latitudinal Diversity Gradient in Hylid Frogs: Treefrog Trees Unearth the Roots of High Tropical Diversity. <i>American Naturalist</i> , 2006, 168, 579-596.	1.0	365
117	The effect of sample size and species characteristics on performance of different species distribution modeling methods. <i>Ecography</i> , 2006, 29, 773-785.	2.1	1,850
118	The ability of climate envelope models to predict the effect of climate change on species distributions. <i>Global Change Biology</i> , 2006, 12, 2272-2281.	4.2	917
119	A comparison of methods for mapping species ranges and species richness. <i>Global Ecology and Biogeography</i> , 2006, 15, 578-587.	2.7	322
120	A comparison of methods for mapping species ranges and species richness. <i>Global Ecology and Biogeography</i> , 2006, .	2.7	37
121	Current and historical factors influencing patterns of species richness and turnover of birds in the Gulf of Guinea highlands. <i>Journal of Biogeography</i> , 2005, 32, 1371-1384.	1.4	42
122	Support vector machines for predicting distribution of Sudden Oak Death in California. <i>Ecological Modelling</i> , 2005, 182, 75-90.	1.2	251
123	Niche Conservatism: Integrating Evolution, Ecology, and Conservation Biology. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2005, 36, 519-539.	3.8	1,847
124	Evaluating alternative data sets for ecological niche models of birds in the Andes. <i>Ecography</i> , 2004, 27, 350-360.	2.1	91
125	INTEGRATING PHYLOGENETICS AND ENVIRONMENTAL NICHE MODELS TO EXPLORE SPECIATION MECHANISMS IN DENDROBATID FROGS. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 1781-1793.	1.1	515
126	New developments in museum-based informatics and applications in biodiversity analysis. <i>Trends in Ecology and Evolution</i> , 2004, 19, 497-503.	4.2	848



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127	INTEGRATING PHYLOGENETICS AND ENVIRONMENTAL NICHE MODELS TO EXPLORE SPECIATION MECHANISMS IN DENDROBATID FROGS. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 1781.	1.1	18
128	Avoiding Pitfalls of Using Species Distribution Models in Conservation Planning. <i>Conservation Biology</i> , 2003, 17, 1591-1600.	2.4	413
129	Use of Fruiting Trees by Birds in Continuous Forest and Riparian Forest Remnants in Los Tuxtlas, Veracruz, Mexico. <i>Biotropica</i> , 2002, 34, 589-597.	0.8	32
130	INFLUENCE OF PATCH- AND LANDSCAPE-LEVEL FACTORS ON BIRD ASSEMBLAGES IN A FRAGMENTED TROPICAL LANDSCAPE. , 2001, 11, 1709-1721.		85
131	Habitat Selection and Activity Budgets of Keel-Billed Toucans at the Landscape Level. <i>Condor</i> , 2001, 103, 776.	0.7	22
132	Historical biogeography, diversity and conservation of Australia's tropical rainforest herpetofauna. , 2001, , 243-264.		14
133	Habitat Selection and Activity Budgets of Keel-Billed Toucans at the Landscape Level. <i>Condor</i> , 2001, 103, 776-784.	0.7	38
134	Putting process on the map: why ecotones are important for preserving biodiversity. , 2001, , 166-197.		12
135	Factors Influencing Movement Patterns of Keel-Billed Toucans in a Fragmented Tropical Landscape in Southern Mexico. <i>Conservation Biology</i> , 2001, 15, 1789-1798.	2.4	116
136	Spatial genetic structure of a tropical understory shrub, <i>PSYCHOTRIA OFFICINALIS</i> (RuBIACEAE). <i>American Journal of Botany</i> , 1995, 82, 1420-1425.	0.8	823
137	Seed Dispersal Effectiveness by Two Bulbuls on <i>Maesa lanceolata</i> , an African Montane Forest Tree. <i>Biotropica</i> , 1995, 27, 479.	0.8	44
138	Comparison of Genetic Variation in Bird-Dispersed Shrubs of a Tropical Wet Forest. <i>Biotropica</i> , 1995, 27, 487.	0.8	26
139	Spatial genetic structure of a tropical understory shrub, <i>PSYCHOTRIA OFFICINALIS</i> (RuBIACEAE). , 1995, 82, 1420.		573
140	Pleistocene climate oscillations and habitat connectivity contributed to avian beta diversity in the megadiverse Colombian Paramo ecosystems. <i>Journal of Biogeography</i> , 0, , .	1.4	2