

# Rachael Winfree

## List of Publications by Year in descending order

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Version: 2024-02-01

125  
papers

20,885  
citations

26630

56  
h-index

22166

113  
g-index

152  
all docs

152  
docs citations

152  
times ranked

16225  
citing authors

#	ARTICLE	IF	CITATIONS
1	The contribution of plant spatial arrangement to bumble bee flower constancy. <i>Oecologia</i> , 2022, 198, 471-481.	2.0	6
2	<scp>CropPol</scp>: A dynamic, open and global database on crop pollination. <i>Ecology</i> , 2022, 103, e3614.	3.2	19
3	Price Equations for Understanding the Response of Ecosystem Function to Community Change. <i>American Naturalist</i> , 2022, 200, 181-192.	2.1	8
4	Many bee species, including rare species, are important for function of entire plantâ€pollinator networks. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, 20212689.	2.6	8
5	From science to politics: COVID-19 information fatigue on YouTube. <i>BMC Public Health</i> , 2022, 22, 816.	2.9	8
6	Crop visitation by wild bees declines over an 8â€year time series: A dramatic trend, or just dramatic betweenâ€year variation?. <i>Insect Conservation and Diversity</i> , 2022, 15, 522-533.	3.0	13
7	The importance of the generation interval in investigating dynamics and control of new SARS-CoV-2 variants. <i>Journal of the Royal Society Interface</i> , 2022, 19, .	3.4	15
8	Seeing through the static: the temporal dimension of plantâ€animal mutualistic interactions. <i>Ecology Letters</i> , 2021, 24, 149-161.	6.4	66
9	A conceptual guide to measuring species diversity. <i>Oikos</i> , 2021, 130, 321-338.	2.7	246
10	Wild insect diversity increases inter-annual stability in global crop pollinator communities. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20210212.	2.6	43
11	Speed and strength of an epidemic intervention. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20201556.	2.6	25
12	Age-dependence of healthcare interventions for COVID-19 in Ontario, Canada. <i>BMC Public Health</i> , 2021, 21, 706.	2.9	13
13	Transmission dynamics are crucial to COVID-19 vaccination policy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	7
14	Forest-associated bee species persist amid forest loss and regrowth in eastern North America. <i>Biological Conservation</i> , 2021, 260, 109202.	4.1	17
15	Forward-looking serial intervals correctly link epidemic growth to reproduction numbers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	54
16	Traditional Male Circumcision is Associated with Sexual Risk Behaviors in Sub-Saharan Countries Prioritized for Male Circumcision. <i>AIDS and Behavior</i> , 2020, 24, 951-959.	2.7	5
17	How much do rare and cropâ€pollinating bees overlap in identity and flower preferences?. <i>Journal of Applied Ecology</i> , 2020, 57, 413-423.	4.0	13
18	Inferring generation-interval distributions from contact-tracing data. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20190719.	3.4	22

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19	Reconciling early-outbreak estimates of the basic reproductive number and its uncertainty: framework and applications to the novel coronavirus (SARS-CoV-2) outbreak. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20200144.	3.4	103
20	Modeling shield immunity to reduce COVID-19 epidemic spread. <i>Nature Medicine</i> , 2020, 26, 849-854.	30.7	196
21	Species loss drives ecosystem function in experiments, but in nature the importance of species loss depends on dominance. <i>Global Ecology and Biogeography</i> , 2020, 29, 1531-1541.	5.8	32
22	The time scale of asymptomatic transmission affects estimates of epidemic potential in the COVID-19 outbreak. <i>Epidemics</i> , 2020, 31, 100392.	3.0	129
23	Awareness-driven behavior changes can shift the shape of epidemics away from peaks and toward plateaus, shoulders, and oscillations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32764-32771.	7.1	120
24	Calibration of individual-based models to epidemiological data: A systematic review. , 2020, 16, e1007893.		0
25	Calibration of individual-based models to epidemiological data: A systematic review. , 2020, 16, e1007893.		0
26	Calibration of individual-based models to epidemiological data: A systematic review. , 2020, 16, e1007893.		0
27	Calibration of individual-based models to epidemiological data: A systematic review. , 2020, 16, e1007893.		0
28	Calibration of individual-based models to epidemiological data: A systematic review. , 2020, 16, e1007893.		0
29	Calibration of individual-based models to epidemiological data: A systematic review. , 2020, 16, e1007893.		0
30	Patterns of seasonal and pandemic influenza-associated health care and mortality in Ontario, Canada. <i>BMC Public Health</i> , 2019, 19, 1237.	2.9	2
31	I can see clearly now: Reinterpreting statistical significance. <i>Methods in Ecology and Evolution</i> , 2019, 10, 756-759.	5.2	107
32	Male and female bees show large differences in floral preference. <i>PLoS ONE</i> , 2019, 14, e0214909.	2.5	45
33	Specialist foragers in forest bee communities are small, social or emerge early. <i>Journal of Animal Ecology</i> , 2019, 88, 1158-1167.	2.8	35
34	Building resilience into agricultural pollination using wild pollinators. , 2019, , 109-134.		8
35	A practical generation-interval-based approach to inferring the strength of epidemics from their speed. <i>Epidemics</i> , 2019, 27, 12-18.	3.0	51
36	Anthropogenic landscapes support fewer rare bee species. <i>Landscape Ecology</i> , 2019, 34, 967-978.	4.2	45

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37	Out-of-Pocket Expenditures, Indirect Costs and Health-Related Quality of Life of Patients with Pulmonary Tuberculosis in Thailand. <i>Pharmacoeconomics - Open</i> , 2018, 2, 281-296.	1.8	7
38	Species turnover promotes the importance of bee diversity for crop pollination at regional scales. <i>Science</i> , 2018, 359, 791-793.	12.6	220
39	Partner age differences and associated sexual risk behaviours among adolescent girls and young women in a cash transfer programme for schooling in Malawi. <i>BMC Public Health</i> , 2018, 18, 403.	2.9	17
40	Healthcare Resource Uses and Out-of-Pocket Expenses Associated with Pulmonary TB Treatment in Thailand. <i>Pharmacoeconomics - Open</i> , 2018, 2, 297-308.	1.8	4
41	Forest bees are replaced in agricultural and urban landscapes by native species with different phenologies and life-history traits. <i>Global Change Biology</i> , 2018, 24, 287-296.	9.5	99
42	Stochastic simulation of multiscale complex systems with PISKaS: A rule-based approach. <i>Biochemical and Biophysical Research Communications</i> , 2018, 498, 342-351.	2.1	9
43	On the inconsistency of pollinator species traits for predicting either response to land-use change or functional contribution. <i>Oikos</i> , 2018, 127, 306-315.	2.7	68
44	Phylogenetic homogenization of bee communities across ecoregions. <i>Global Ecology and Biogeography</i> , 2018, 27, 1457-1466.	5.8	25
45	Fitting mechanistic epidemic models to data: A comparison of simple Markov chain Monte Carlo approaches. <i>Statistical Methods in Medical Research</i> , 2018, 27, 1956-1967.	1.5	27
46	Human ectoparasite transmission of the plague during the Second Pandemic is only weakly supported by proposed mathematical models. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7892-E7893.	7.1	5
47	Couple serostatus patterns in sub-Saharan Africa illuminate the relative roles of transmission rates and sexual network characteristics in HIV epidemiology. <i>Scientific Reports</i> , 2018, 8, 6675.	3.3	0
48	Wild bee community change over a 26-year chronosequence of restored tallgrass prairie. <i>Restoration Ecology</i> , 2017, 25, 650-660.	2.9	46
49	A double-edged sword: does highly active antiretroviral therapy contribute to syphilis incidence by impairing immunity to <i>Treponema pallidum</i> ?. <i>Sexually Transmitted Infections</i> , 2017, 93, 374-378.	1.9	32
50	A global synthesis of the effects of diversified farming systems on arthropod diversity within fields and across agricultural landscapes. <i>Global Change Biology</i> , 2017, 23, 4946-4957.	9.5	259
51	The relative importance of pollinator abundance and species richness for the temporal variance of pollination services. <i>Ecology</i> , 2017, 98, 1807-1816.	3.2	30
52	Patterns of influenza vaccination coverage in the United States from 2009 to 2015. <i>International Journal of Infectious Diseases</i> , 2017, 65, 122-127.	3.3	24
53	Lysis, lysogeny and virus-microbe ratios. <i>Nature</i> , 2017, 549, E1-E3.	27.8	69
54	Speciation over the edge: gene flow among non-human primate species across a formidable biogeographic barrier. <i>Royal Society Open Science</i> , 2017, 4, 170351.	2.4	30

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55	Kaiso is highly expressed in TNBC tissues of women of African ancestry compared to Caucasian women. <i>Cancer Causes and Control</i> , 2017, 28, 1295-1304.	1.8	23
56	Evidence that promotion of male circumcision did not lead to sexual risk compensation in prioritized Sub-Saharan countries. <i>PLoS ONE</i> , 2017, 12, e0175928.	2.5	22
57	The Hayflick Limit May Determine the Effective Clonal Diversity of Naive T Cells. <i>Journal of Immunology</i> , 2016, 196, 4999-5004.	0.8	10
58	Measuring partner choice in plant-pollinator networks: using null models to separate rewiring and fidelity from chance. <i>Ecology</i> , 2016, 97, 2925-2931.	3.2	26
59	The Role of Floral Density in Determining Bee Foraging Behavior: A Natural Experiment. <i>Natural Areas Journal</i> , 2016, 36, 392-399.	0.5	8
60	The risk of incomplete personal protection coverage in vector-borne disease. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20150666.	3.4	7
61	Non-bee insects are important contributors to global crop pollination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 146-151.	7.1	618
62	The Allometry of Bee Proboscis Length and Its Uses in Ecology. <i>PLoS ONE</i> , 2016, 11, e0151482.	2.5	86
63	Evaluating Ebola vaccine trials: insights from simulation. <i>Lancet Infectious Diseases</i> , The, 2015, 15, 1134.	9.1	5
64	Urban drivers of plant-pollinator interactions. <i>Functional Ecology</i> , 2015, 29, 879-888.	3.6	199
65	Modeling Post-death Transmission of Ebola: Challenges for Inference and Opportunities for Control. <i>Scientific Reports</i> , 2015, 5, 8751.	3.3	93
66	Intrinsic and realized generation intervals in infectious-disease transmission. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20152026.	2.6	70
67	Causes of variation in wild bee responses to anthropogenic drivers. <i>Current Opinion in Insect Science</i> , 2015, 10, 104-109.	4.4	89
68	Statistical power and validity of Ebola vaccine trials in Sierra Leone: a simulation study of trial design and analysis. <i>Lancet Infectious Diseases</i> , The, 2015, 15, 703-710.	9.1	64
69	Reassessment of HIV-1 Acute Phase Infectivity: Accounting for Heterogeneity and Study Design with Simulated Cohorts. <i>PLoS Medicine</i> , 2015, 12, e1001801.	8.4	75
70	Delivery of crop pollination services is an insufficient argument for wild pollinator conservation. <i>Nature Communications</i> , 2015, 6, 7414.	12.8	656
71	Abundance of common species, not species richness, drives delivery of a real-world ecosystem service. <i>Ecology Letters</i> , 2015, 18, 626-635.	6.4	468
72	Modeling the effect of HIV coinfection on clearance and sustained virologic response during treatment for hepatitis C virus. <i>Epidemics</i> , 2015, 12, 1-10.	3.0	15

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73	Lack of Pollinators Limits Fruit Production in Commercial Blueberry (&l&t;Vaccinium) Tj ETQq1 1 0.784314 rgBT/Overlock_10 Tf 507	1.4	64
74	Pollinator body size mediates the scale at which land use drives crop pollination services. Journal of Applied Ecology, 2014, 51, 440-449.	4.0	131
75	Variation in gut microbial communities and its association with pathogen infection in wild bumble bees (<i>Bombus</i>). ISME Journal, 2014, 8, 2369-2379.	9.8	193
76	From research to action: enhancing crop yield through wild pollinators. Frontiers in Ecology and the Environment, 2014, 12, 439-447.	4.0	363
77	Species Abundance, Not Diet Breadth, Drives the Persistence of the Most Linked Pollinators as Plant-Pollinator Networks Disassemble. American Naturalist, 2014, 183, 600-611.	2.1	49
78	Biodiversity ensures plantâ€™pollinator phenological synchrony against climate change. Ecology Letters, 2013, 16, 1331-1338.	6.4	184
79	Global change, biodiversity, and ecosystem services: What can we learn from studies of pollination?. Basic and Applied Ecology, 2013, 14, 453-460.	2.7	41
80	Robust estimation of microbial diversity in theory and in practice. ISME Journal, 2013, 7, 1092-1101.	9.8	321
81	Local habitat characteristics but not landscape urbanization drive pollinator visitation and native plant pollination in forest remnants. Biological Conservation, 2013, 160, 10-18.	4.1	85
82	Wild Pollinators Enhance Fruit Set of Crops Regardless of Honey Bee Abundance. Science, 2013, 339, 1608-1611.	12.6	1,767
83	A global quantitative synthesis of local and landscape effects on wild bee pollinators in agroecosystems. Ecology Letters, 2013, 16, 584-599.	6.4	875
84	Response diversity to land use occurs but does not consistently stabilise ecosystem services provided by native pollinators. Ecology Letters, 2013, 16, 903-911.	6.4	80
85	Native bees buffer the negative impact of climate warming on honey bee pollination of watermelon crops. Global Change Biology, 2013, 19, 3103-3110.	9.5	133
86	Historical changes in northeastern US bee pollinators related to shared ecological traits. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4656-4660.	7.1	432
87	Pollinator declines: reconciling scales and implications for ecosystem services. F1000Research, 2013, 2, 146.	1.6	20
88	HIV Sexual Transmission Is Predominantly Driven by Single Individuals Rather than Discordant Couples: A Model-Based Approach. PLoS ONE, 2013, 8, e82906.	2.5	5
89	Identifying enterotype in human microbiome by decomposing probabilistic topics into components. , 2012, , .		3
90	Complementary habitat use by wild bees in agroâ€™natural landscapes. Ecological Applications, 2012, 22, 1535-1546.	3.8	168

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91	Native Pollinators in Anthropogenic Habitats. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2011, 42, 1-22.	8.3	429
92	Reconnecting plants and pollinators: challenges in the restoration of pollination mutualisms. <i>Trends in Plant Science</i> , 2011, 16, 4-12.	8.8	278
93	Stability of pollination services decreases with isolation from natural areas despite honey bee visits. <i>Ecology Letters</i> , 2011, 14, 1062-1072.	6.4	681
94	How many flowering plants are pollinated by animals?. <i>Oikos</i> , 2011, 120, 321-326.	2.7	2,328
95	The Circe Principle: Are Pollinators Waylaid by Attractive Habitats?. <i>Current Biology</i> , 2011, 21, R652-R654.	3.9	14
96	Valuing pollination services to agriculture. <i>Ecological Economics</i> , 2011, 71, 80-88.	5.7	168
97	Bees in disturbed habitats use, but do not prefer, alien plants. <i>Basic and Applied Ecology</i> , 2011, 12, 332-341.	2.7	115
98	Mechanistic modelling of the three waves of the 1918 influenza pandemic. <i>Theoretical Ecology</i> , 2011, 4, 283-288.	1.0	41
99	Climate-associated phenological advances in bee pollinators and bee-pollinated plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20645-20649.	7.1	402
100	The conservation and restoration of wild bees. <i>Annals of the New York Academy of Sciences</i> , 2010, 1195, 169-197.	3.8	244
101	Modelling pollination services across agricultural landscapes. <i>Annals of Botany</i> , 2009, 103, 1589-1600.	2.9	309
102	Reproductive status influences group size and persistence of bonds in male plains zebra ( <i>Equus</i> ) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3</i>	1.4	28
103	Are ecosystem services stabilized by differences among species? A test using crop pollination. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 229-237.	2.6	203
104	A meta-analysis of bees' responses to anthropogenic disturbance. <i>Ecology</i> , 2009, 90, 2068-2076.	3.2	739
105	Wild bee pollinators provide the majority of crop visitation across landscape gradients in New Jersey and Pennsylvania, USA. <i>Journal of Applied Ecology</i> , 2008, 45, 793-802.	4.0	352
106	Alternative stable states in host-phage dynamics. <i>Theoretical Ecology</i> , 2008, 1, 13-19.	1.0	92
107	Pollinator-Dependent Crops: An Increasingly Risky Business. <i>Current Biology</i> , 2008, 18, R968-R969.	3.9	43
108	SCALING FROM TREES TO FORESTS: TRACTABLE MACROSCOPIC EQUATIONS FOR FOREST DYNAMICS. <i>Ecological Monographs</i> , 2008, 78, 523-545.	5.4	208

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109	Pollination and other ecosystem services produced by mobile organisms: a conceptual framework for the effects of land-use change. <i>Ecology Letters</i> , 2007, 10, 299-314.	6.4	1,096
110	Native bees provide insurance against ongoing honey bee losses. <i>Ecology Letters</i> , 2007, 10, 1105-1113.	6.4	401
111	Effect of Human Disturbance on Bee Communities in a Forested Ecosystem. <i>Conservation Biology</i> , 2007, 21, 213-223.	4.7	346
112	Bee foraging ranges and their relationship to body size. <i>Oecologia</i> , 2007, 153, 589-596.	2.0	1,269
113	Vaccinating to Protect a Vulnerable Subpopulation. <i>PLoS Medicine</i> , 2007, 4, e174.	8.4	72
114	Mortality due to Influenza in the United States—An Annualized Regression Approach Using Multiple-Cause Mortality Data. <i>American Journal of Epidemiology</i> , 2006, 163, 181-187.	3.4	230
115	Assessing influenza-related mortality: comment on Zucs et al. , 2005, 2, 7.		3
116	Testing Simple Indices of Habitat Proximity. <i>American Naturalist</i> , 2005, 165, 707-717.	2.1	94
117	MARINE RESERVE DESIGN AND THE EVOLUTION OF SIZE AT MATURATION IN HARVESTED FISH. , 2005, 15, 882-901.		112
118	On state-space reduction in multi-strain pathogen models, with an application to antigenic drift in influenza A. <i>PLoS Computational Biology</i> , 2005, preprint, e159.	3.2	1
119	Dynamical resonance can account for seasonality of influenza epidemics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 16915-16916.	7.1	311
120	High offspring survival of the brown-headed cowbird in an invaded habitat. <i>Animal Conservation</i> , 2004, 7, 445-453.	2.9	5
121	Art Winfree, Artist of Science. <i>Journal of Theoretical Biology</i> , 2004, 230, 441-443.	1.7	0
122	Metapopulations, community assembly, and scale invariance in aspect space. <i>Theoretical Population Biology</i> , 2002, 62, 329-338.	1.1	5
123	Reply from R. Winfree. <i>Trends in Ecology and Evolution</i> , 2000, 15, 26.	8.7	0
124	Cuckoos, cowbirds and the persistence of brood parasitism. <i>Trends in Ecology and Evolution</i> , 1999, 14, 338-343.	8.7	90
125	Backwards bifurcations and catastrophe in simple models of fatal diseases. <i>Journal of Mathematical Biology</i> , 1998, 36, 227-248.	1.9	269