Shripad Tuljapurkar

List of Publications by Year
in descending order

112 papers	7,094 citations	66343 42 h-index	64796 79 g-index
152 all docs	152 docs citations	152 times ranked	5669 citing authors

#	Article	IF	Citations
1	Mutations and the Distribution of Lifetime Reproductive Success. Journal of the Indian Institute of Science, 2022, 102, 1269-1275.	1.9	0
2	Modeling extreme climatic events using the generalized extreme value (GEV) distribution. Handbook of Statistics, 2021, , 39-71.	0.6	9
3	The changing trend of life expectancy for the Chinese elderly and its ruralâ€“urban disparity. China Population and Development Studies, 2021, 5, 25-40.	1.4	0
4	Distributions of LRS in varying environments. Ecology Letters, 2021, 24, 1328-1340.	6.4	8
5	Gompertz law revisited: Forecasting mortality with a multi-factor exponential model. Insurance: Mathematics and Economics, 2021, 99, 268-281.	1.2	4
6	Demographic determinants of the phenotypic motherâ€“offspring correlation. Ecological Monographs, 2021, 91, e01479.	5.4	2
7	Quantifying the effect of genetic, environmental and individual demographic stochastic variability for population dynamics in Plantago lanceolata. Scientific Reports, 2021, 11, 23174.	3.3	7
8	Relative contributions of fixed and dynamic heterogeneity to variation in lifetime reproductive success in kestrels (<scp>Falco tinnunculus</scp>). Population Ecology, 2020, 62, 408-424.	1.2	7
9	Lifeâ€history strategy varies with the strength of competition in a foodâ€limited ungulate population. Ecology Letters, 2020, 23, 811-820.	6.4	17
10	Skewed distributions of lifetime reproductive success: beyond mean and variance. Ecology Letters, 2020, 23, 748-756.	6.4	29
11	Drivers of diversity in individual life courses: Sensitivity of the population entropy of a Markov chain. Theoretical Population Biology, 2020, 133, 159-167.	1.1	4
12	How climate affects extreme events and hence ecological population models. Ecology, 2019, 100, e02684.	3.2	8
13	Age distribution, trends, and forecasts of under-5 mortality in 31 sub-Saharan African countries: A modeling study. PLoS Medicine, 2019, 16, e1002757.	8.4	50
14	Stochastic Models for Structured Populations. Handbook of Statistics, 2019, , 133-155.	0.6	2
15	Climate, rather than human disturbance, is the main driver of age-specific mortality trajectories in a tropical tree. Ecological Modelling, 2019, 400, 34-40.	2.5	5
16	Machine learning approaches to the social determinants of health in the health and retirement study. SSM - Population Health, 2018, 4, 95-99.	2.7	67
17	Advancing front of old-age human survival. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11209-11214.	7.1	40
18	Susceptibility of wild and colonized Anopheles stephensi to Plasmodium vivax infection. Malaria Journal, 2018, 17, 225.	2.3	9

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19	Poverty dynamics, poverty thresholds and mortality: An age-stage Markovian model. PLoS ONE, 2018, 13, e0195734.	2.5	17
20	Equity and length of lifespan are not the same. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8420-8423.	7.1	28
21	Des diffÃ©rences, pourquoi? Transmission, maintenance and effects of phenotypic variance. Journal of Animal Ecology, 2016, 85, 356-370.	2.8	16
22	Racial and Socioeconomic Variation in Genetic Markers of Telomere Length: A Cross-Sectional Study of U.S. Older Adults. EBioMedicine, 2016, 11, 296-301.	6.1	27
23	Distinct genomic architecture of Plasmodium falciparum populations from South Asia. Molecular and Biochemical Parasitology, 2016, 210, 1-4.	1.1	12
24	Reply to Yang et al.: GCTA produces unreliable heritability estimates. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4581.	7.1	7
25	Demographic and clinical profiles of Plasmodium falciparum and Plasmodium vivax patients at a tertiary care centre in southwestern India. Malaria Journal, 2016, 15, 569.	2.3	22
26	Linking demographic responses and life history tactics from longitudinal data in mammals. Oikos, 2016, 125, 395-404.	2.7	12
27	The effects of asymmetric competition on the life history of Trinidadian guppies. Ecology Letters, 2016, 19, 268-278.	6.4	47
28	Limitations of GCTA as a solution to the missing heritability problem. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E61-70.	7.1	84
29	Quantifying the influence of measured and unmeasured individual differences on demography. Journal of Animal Ecology, 2015, 84, 1434-1445.	2.8	30
30	Measuring selective constraint on fertility in human life histories. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8982-8986.	7.1	17
31	Deciphering life history transcriptomes in different environments. Molecular Ecology, 2015, 24, 151-179.	3.9	20
32	Sexâ€specific demography and generalization of the Triversâ€“Willard theory. Nature, 2015, 526, 249-252.	27.8	69
33	Influence of Life-History Tactics on Transient Dynamics: A Comparative Analysis across Mammalian Populations. American Naturalist, 2014, 184, 673-683.	2.1	58
34	Generation Time, Net Reproductive Rate, and Growth in Stage-Age-Structured Populations. American Naturalist, 2014, 183, 771-783.	2.1	55
35	The Invisible Cliff: Abrupt Imposition of Malthusian Equilibrium in a Natural-Fertility, Agrarian Society. PLoS ONE, 2014, 9, e87541.	2.5	34
36	Beyond the mean: sensitivities of the variance of population growth. Methods in Ecology and Evolution, 2013, 4, 290-298.	5.2	8

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37	Defoliation and bark harvesting affect lifeâ€history traits of a tropical tree. Journal of Ecology, 2013, 101, 1563-1571.	4.0	26
38	Contributions of Covariance: Decomposing the Components of Stochastic Population Growth in Cypripedium calceolus. American Naturalist, 2013, 181, 410-420.	2.1	21
39	Mutations and the age pattern of death. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10057-10058.	7.1	0
40	Neutral theory for life histories and individual variability in fitness components. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4684-4689.	7.1	100
41	Structured Population Models: Introduction. Theoretical Population Biology, 2012, 82, 241-243.	1.1	4
42	Linking the population growth rate and the age-at-death distribution. Theoretical Population Biology, 2012, 82, 244-252.	1.1	14
43	Trading stages: Life expectancies in structured populations. Experimental Gerontology, 2012, 47, 773-781.	2.8	26
44	Editorial for the Special Issue: Biodemographic determinants of lifespan. Experimental Gerontology, 2012, 47, 755-758.	2.8	0
45	Stochastic LTRE analysis of the effects of herbivory on the population dynamics of a perennial grassland herb. Oikos, 2012, 121, 211-218.	2.7	15
46	Static and dynamic expression of life history traits in the northern fulmar Fulmarus glacialis. Oikos, 2011, 120, 369-380.	2.7	27
47	Demography as the Human Story. Population and Development Review, 2011, 37, 166-171.	2.1	1
48	Derivatives of the stochastic growth rate. Theoretical Population Biology, 2011, 80, 1-15.	1.1	12
49	Variance in death and its implications for modeling and forecasting mortality. Demographic Research, 2011, 24, 497-526.	3.0	43
50	Demographic effects of extreme weather events on a shortâ€lived calcareous grassland species: stochastic life table response experiments. Journal of Ecology, 2010, 98, 255-267.	4.0	49
51	Environmental variance, population growth and evolution. Journal of Animal Ecology, 2010, 79, 1-3.	2.8	12
52	Dynamic heterogeneity and life history variability in the kittiwake. Journal of Animal Ecology, 2010, 79, 436-444.	2.8	69
53	Using evolutionary demography to link life history theory, quantitative genetics and population ecology. Journal of Animal Ecology, 2010, 79, 1226-1240.	2.8	177
54	Coupled dynamics of body mass and population growth in response to environmental change. Nature, 2010, 466, 482-485.	27.8	518

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55	Dynamic heterogeneity and life histories. Annals of the New York Academy of Sciences, 2010, 1204, 65-72.	3.8	15
56	Plant populations track rather than buffer climate fluctuations. Ecology Letters, 2010, 13, 736-743.	6.4	80
57	A New Way to Integrate Selection When Both Demography and Selection Gradients Vary over Time. International Journal of Plant Sciences, 2010, 171, 945-959.	1.3	9
58	A time to grow and a time to die: a new way to analyze the dynamics of size, light, age, and death of tropical trees. Ecology, 2009, 90, 2766-2778.	3.2	67
59	From stochastic environments to life histories and back. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 1499-1509.	4.0	134
60	Population and prehistory III: Food-dependent demography in variable environments. Theoretical Population Biology, 2009, 76, 179-188.	1.1	34
61	Babies make a comeback. Nature, 2009, 460, 693-694.	27.8	7
62	Dynamic heterogeneity in life histories. Ecology Letters, 2009, 12, 93-106.	6.4	140
63	The Dynamics of Phenotypic Change and the Shrinking Sheep of St. Kilda. Science, 2009, 325, 464-467.	12.6	271
64	Estimating stochastic elasticities directly from longitudinal data. Ecology Letters, 2009, 12, 806-812.	6.4	13
65	Senescence rates are determined by ranking on the fastâ€“slow lifeâ€history continuum. Ecology Letters, 2008, 11, 664-673.	6.4	317
66	Population and prehistory I: Food-dependent population growth in constant environments. Theoretical Population Biology, 2008, 73, 473-482.	1.1	58
67	Population and prehistory II: Space-limited human populations in constant environments. Theoretical Population Biology, 2008, 74, 147-160.	1.1	52
68	LONGEVITY CAN BUFFER PLANT AND ANIMAL POPULATIONS AGAINST CHANGING CLIMATIC VARIABILITY. Ecology, 2008, 89, 19-25.	3.2	386
69	The Dynamics of a Quantitative Trait in an Ageâ€Structured Population Living in a Variable Environment. American Naturalist, 2008, 172, 599-612.	2.1	96
70	Evolution of Delayed Reproduction in Uncertain Environments: A Lifeâ€History Perspective. American Naturalist, 2008, 172, 797-805.	2.1	68
71	Stage Dynamics, Period Survival, and Mortality Plateaus. American Naturalist, 2008, 172, 203-215.	2.1	56
72	How can economic schemes curtail the increasing sex ratio at birth in China?. Demographic Research, 2008, 19, 1831-1850.	3.0	17

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73	The Evolutionary Demography of Ecological Change: Linking Trait Variation and Population Growth. Science, 2007, 315, 1571-1574.	12.6	196
74	Why Men Matter: Mating Patterns Drive Evolution of Human Lifespan. PLoS ONE, 2007, 2, e785.	2.5	104
75	Using the Lee-Carter Method to Forecast Mortality for Populations with Limited Data*. International Statistical Review, 2007, 72, 19-36.	1.9	60
76	Time, transients and elasticity. Ecology Letters, 2007, 10, 1143-1153.	6.4	41
77	Detecting variability in demographic rates: randomization with the Kullbackâ€“Leibler distance. Journal of Ecology, 2007, 95, 1370-1380.	4.0	5
78	FROM STAGE TO AGE IN VARIABLE ENVIRONMENTS: LIFE EXPECTANCY AND SURVIVORSHIP. Ecology, 2006, 87, 1497-1509.	3.2	57
79	Temporal autocorrelation and stochastic population growth. Ecology Letters, 2006, 9, 327-337.	6.4	91
80	Sensitivity of the population growth rate to demographic variability within and between phases of the disturbance cycle. Ecology Letters, 2006, 9, 1331-1341.	6.4	30
81	Risky Business: Temporal and Spatial Variation in Preindustrial Dryland Agriculture. Human Ecology, 2006, 34, 739-763.	1.4	51
82	PLANTâ€“ANIMAL INTERACTIONS IN RANDOM ENVIRONMENTS: HABITAT-STAGE ELASTICITY, SEED PREDATORS, AND HURRICANES. Ecology, 2005, 86, 3312-3322.	3.2	53
83	Inequality in Life Spans and a New Perspective on Mortality Convergence Across Industrialized Countries. Population and Development Review, 2005, 31, 645-674.	2.1	218
84	Elasticities in Variable Environments: Properties and Implications. American Naturalist, 2005, 166, 481-495.	2.1	69
85	Future Mortality: A Bumpy Road to Shangri-La?. Science of Aging Knowledge Environment: SAGE KE, 2005, 2005, pe9-pe9.	0.8	14
86	Demography in the 21st century: Introduction. Theoretical Population Biology, 2004, 65, 317.	1.1	1
87	The Many Growth Rates and Elasticities of Populations in Random Environments. American Naturalist, 2003, 162, 489-502.	2.1	223
88	Reproductive Effort in Variable Environments, or Environmental Variation Is for the Birds. Ecology, 2001, 82, 2659.	3.2	50
89	Sex ratio at birth and son preference. Mathematical Population Studies, 2000, 8, 91-107.	2.2	19
90	A universal pattern of mortality decline in the G7 countries. Nature, 2000, 405, 789-792.	27.8	415

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91	Escape in time: stay young or age gracefully?. Ecological Modelling, 2000, 133, 143-159.	2.5	40
92	The solution of timeâ€dependent population models. Mathematical Population Studies, 2000, 7, 311-329.	2.2	23
93	Population momentum for gradual demographic transitions. Population Studies, 1999, 53, 255-262.	2.1	32
94	Validation, probability-weighted priors, and information in stochastic forecasts. International Journal of Forecasting, 1999, 15, 259-271.	6.5	20
95	Mortality Change and Forecasting. North American Actuarial Journal, 1998, 2, 13-47.	1.4	67
96	Taking the measure of uncertainty. Nature, 1997, 387, 760-761.	27.8	8
97	Death and Taxes: Longer life, consumption, and social security. Demography, 1997, 34, 67-81.	2.5	72
98	Disaggregatton in population forecasting: Do we need it? And how to do it simply. Mathematical Population Studies, 1995, 5, 217-234.	2.2	16
99	Stochastic Population Forecasts for the United States: Beyond High, Medium, and Low. Journal of the American Statistical Association, 1994, 89, 1175-1189.	3.1	195
100	Migration in Variable Environments: Exploring Life-history Evolution Using Structured Population Models. Journal of Theoretical Biology, 1994, 166, 75-90.	1.7	55
101	Loop Analysis: Evaluating Life History Pathways in Population Projection Matrices. Ecology, 1994, 75, 2410.	3.2	90
102	Stochastic Population Forecasts for the United States: Beyond High, Medium, and Low. Journal of the American Statistical Association, 1994, 89, 1175.	3.1	33
103	Entropy and convergence in dynamics and demography. Journal of Mathematical Biology, 1993, 31, 253-271.	1.9	15
104	Stochastic population forecasts and their uses. International Journal of Forecasting, 1992, 8, 385-391.	6.5	25
105	Disease in changing populations: Growth and disequilibrium. Theoretical Population Biology, 1991, 40, 322-353.	1.1	16
106	Population Dynamics in Variable Environments. Lecture Notes in Biomathematics, 1990, , .	0.3	431
107	An uncertain life: Demography in random environments. Theoretical Population Biology, 1989, 35, 227-294.	1.1	238
108	Population Dynamics in Variable Environments. VII. The Demography and Evolution of Iteroparity. American Naturalist, 1989, 133, 901-923.	2.1	152

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109	Cycles in nonlinear age-structured models I. Renewal equations. Theoretical Population Biology, 1987, 32, 26-41.	1.1	32
110	Demography in stochastic environments. Journal of Mathematical Biology, 1986, 24, 569-581.	1.9	25
111	Population dynamics in variable environments. VI. Cyclical environments. Theoretical Population Biology, 1985, 28, 1-17.	1.1	39
112	Convergence in male and female life expectancy: Direction, age pattern, and causes. Demographic Research, 0, 34, 1063-1074.	3.0	6