

Virpi Lummaa

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

3,353
citations

186265

28
h-index

155660

55
g-index

84
all docs

84
docs citations

84
times ranked

2748
citing authors

#	ARTICLE	IF	CITATIONS
1	Intention to have a second child, family support and actual fertility behavior in current China: An evolutionary perspective. <i>American Journal of Human Biology</i> , 2022, 34, e23669.	1.6	14
2	Age related variation of health markers in Asian elephants. <i>Experimental Gerontology</i> , 2022, 157, 111629.	2.8	4
3	Sex-specific links between the social landscape and faecal glucocorticoid metabolites in semi-captive Asian elephants. <i>General and Comparative Endocrinology</i> , 2022, 319, 113990.	1.8	3
4	The Long-Term Success of Mandatory Vaccination Laws After Implementing the First Vaccination Campaign in 19th Century Rural Finland. <i>American Journal of Epidemiology</i> , 2022, 191, 1180-1189.	3.4	3
5	Neighborhood disadvantage, greenness and population density as predictors of breastfeeding practices: a population cohort study from Finland. <i>Journal of Nutrition</i> , 2022, , .	2.9	0
6	Sex-specific body mass ageing trajectories in adult Asian elephants. <i>Journal of Evolutionary Biology</i> , 2022, 35, 752-762.	1.7	1
7	Mothers with higher twinning propensity had lower fertility in pre-industrial Europe. <i>Nature Communications</i> , 2022, 13, .	12.8	0
8	Investigating associations between nematode infection and three measures of sociality in Asian elephants. <i>Behavioral Ecology and Sociobiology</i> , 2022, 76, .	1.4	2
9	Will granny save me? Birth status, survival, and the role of grandmothers in historical Finland. <i>Evolution and Human Behavior</i> , 2021, 42, 239-246.	2.2	7
10	Offspring fertility and grandchild survival enhanced by maternal grandmothers in a pre-industrial human society. <i>Scientific Reports</i> , 2021, 11, 3652.	3.3	20
11	Female-biased sex ratios in urban centers create a "fertility trap" in post-war Finland. <i>Behavioral Ecology</i> , 2021, 32, 590-598.	2.2	3
12	Town population size and structuring into villages and households drive infectious disease risks in pre-healthcare Finland. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20210356.	2.6	5
13	Handler familiarity helps to improve working performance during novel situations in semi-captive Asian elephants. <i>Scientific Reports</i> , 2021, 11, 15480.	3.3	8
14	The elephant in the family: Costs and benefits of elder siblings on younger offspring life-history trajectory in a matrilineal mammal. <i>Journal of Animal Ecology</i> , 2021, 90, 2663-2677.	2.8	6
15	Maternal age at birth shapes offspring life-history trajectory across generations in long-lived Asian elephants. <i>Journal of Animal Ecology</i> , 2020, 89, 996-1007.	2.8	21
16	Demographic and reproductive associations with nematode infection in a long-lived mammal. <i>Scientific Reports</i> , 2020, 10, 9214.	3.3	3
17	Changes in age-structure over four decades were a key determinant of population growth rate in a long-lived mammal. <i>Journal of Animal Ecology</i> , 2020, 89, 2268-2278.	2.8	5
18	Taming age mortality in semi-captive Asian elephants. <i>Scientific Reports</i> , 2020, 10, 1889.	3.3	14

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19	Evaluating the Reliability of Non-Specialist Observers in the Behavioural Assessment of Semi-Captive Asian Elephant Welfare. <i>Animals</i> , 2020, 10, 167.	2.3	2
20	Faecal Glucocorticoid Metabolites and H/L Ratio Are Related Markers of Stress in Semi-Captive Asian Timber Elephants. <i>Animals</i> , 2020, 10, 94.	2.3	9
21	Milk Composition of Asian Elephants (<i>Elephas maximus</i>) in a Natural Environment in Myanmar during Late Lactation. <i>Animals</i> , 2020, 10, 725.	2.3	5
22	SEX DIFFERENCES IN THE REFERENCE INTERVALS OF HEALTH PARAMETERS IN SEMICAPTIVE ASIAN ELEPHANTS (<i>ELEPHAS MAXIMUS</i>) FROM MYANMAR. <i>Journal of Zoo and Wildlife Medicine</i> , 2020, 51, 25.	0.6	7
23	Seasonal variation of health in Asian elephants. , 2020, 8, coaa119.		4
24	The Resettlement and Subsequent Assimilation of Evacuees from Finnish Karelia during and after the Second World War. , 2020, , 129-147.		0
25	Demographic and evolutionary trends in ovarian function and aging. <i>Human Reproduction Update</i> , 2019, 25, 34-50.	10.8	34
26	Evolutionary significance of maternal kinship in a long-lived mammal. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180067.	4.0	22
27	Asian elephants exhibit post-reproductive lifespans. <i>BMC Evolutionary Biology</i> , 2019, 19, 193.	3.2	17
28	Capture from the wild has long-term costs on reproductive success in Asian elephants. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20191584.	2.6	10
29	Long-term trends in wild-capture and population dynamics point to an uncertain future for captive elephants. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20182810.	2.6	24
30	Limits to Fitness Benefits of Prolonged Post-reproductive Lifespan in Women. <i>Current Biology</i> , 2019, 29, 645-650.e3.	3.9	24
31	Investigating changes within the handling system of the largest semi-captive population of Asian elephants. <i>PLoS ONE</i> , 2019, 14, e0209701.	2.5	22
32	Limited support for the X-linked grandmother hypothesis in pre-industrial Finland. <i>Biology Letters</i> , 2018, 14, 20170651.	2.3	12
33	Effects of female reproductive competition on birth rate and reproductive scheduling in a historical human population. <i>Behavioral Ecology</i> , 2018, 29, 333-341.	2.2	4
34	Early-life environment and differences in costs of reproduction in a preindustrial human population. <i>PLoS ONE</i> , 2018, 13, e0207236.	2.5	11
35	Differences in age-specific mortality between wild-caught and captive-born Asian elephants. <i>Nature Communications</i> , 2018, 9, 3023.	12.8	27
36	Grandmotherhood across the demographic transition. <i>PLoS ONE</i> , 2018, 13, e0200963.	2.5	19

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37	The transition to modernity and chronic disease: mismatch and natural selection. <i>Nature Reviews Genetics</i> , 2018, 19, 419-430.	16.3	91
38	Sex differences in adult mortality rate mediated by early-life environmental conditions. <i>Ecology Letters</i> , 2018, 21, 235-242.	6.4	17
39	Parent-offspring conflict over family size in current China. <i>American Journal of Human Biology</i> , 2017, 29, e22946.	1.6	10
40	What have humans done for evolutionary biology? Contributions from genes to populations. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20171164.	2.6	10
41	Parasite-associated mortality in a long-lived mammal: Variation with host age, sex, and reproduction. <i>Ecology and Evolution</i> , 2017, 7, 10904-10915.	1.9	38
42	The importance of the timescale of the fitness metric for estimates of selection on phenotypic traits during a period of demographic change. <i>Ecology Letters</i> , 2016, 19, 854-861.	6.4	17
43	Testing storage methods of faecal samples for subsequent measurement of helminth egg numbers in the domestic horse. <i>Veterinary Parasitology</i> , 2016, 221, 130-133.	1.8	31
44	Genetic Associations Between Personality Traits and Lifetime Reproductive Success in Humans. <i>Behavior Genetics</i> , 2016, 46, 742-753.	2.1	9
45	Early-life disease exposure and associations with adult survival, cause of death, and reproductive success in preindustrial humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8951-8956.	7.1	19
46	Nearby grandmother enhances calf survival and reproduction in Asian elephants. <i>Scientific Reports</i> , 2016, 6, 27213.	3.3	67
47	Reduced costs of reproduction in females mediate a shift from a male-biased to a female-biased lifespan in humans. <i>Scientific Reports</i> , 2016, 6, 24672.	3.3	25
48	Short-term and delayed effects of mother death on calf mortality in Asian elephants. <i>Behavioral Ecology</i> , 2016, 27, 166-174.	2.2	27
49	How Big Is It Really? Assessing the Efficacy of Indirect Estimates of Body Size in Asian Elephants. <i>PLoS ONE</i> , 2016, 11, e0150533.	2.5	10
50	Elephants born in the high stress season have faster reproductive ageing. <i>Scientific Reports</i> , 2015, 5, 13946.	3.3	49
51	Distinguishing between determinate and indeterminate growth in a long-lived mammal. <i>BMC Evolutionary Biology</i> , 2015, 15, 214.	3.2	44
52	Effects of the demographic transition on the genetic variances and covariances of human life-history traits. <i>Evolution; International Journal of Organic Evolution</i> , 2015, 69, 747-755.	2.3	39
53	Stress and body condition are associated with climate and demography in Asian elephants. , 2015, 3, cov030.		48
54	Reproductive cessation and post-reproductive lifespan in Asian elephants and pre-industrial humans. <i>Frontiers in Zoology</i> , 2014, 11, 54.	2.0	74

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55	Are elder siblings helpers or competitors? Antagonistic fitness effects of sibling interactions in humans. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20122313.	2.6	48
56	Climatic variation and age-specific survival in Asian elephants from Myanmar. <i>Ecology</i> , 2013, 94, 1131-1141.	3.2	36
57	Evolution of sex differences in lifespan and aging: Causes and constraints. <i>BioEssays</i> , 2013, 35, 717-724.	2.5	194
58	Divergent selection on, but no genetic conflict over, female and male timing and rate of reproduction in a human population. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20132002.	2.6	25
59	Influence of early-life nutrition on mortality and reproductive success during a subsequent famine in a preindustrial population. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13886-13891.	7.1	115
60	Severe intergenerational reproductive conflict and the evolution of menopause. <i>Ecology Letters</i> , 2012, 15, 1283-1290.	6.4	100
61	Food and fitness: associations between crop yields and life-history traits in a longitudinally monitored pre-industrial human population. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 4165-4173.	2.6	27
62	Causes and Correlates of Calf Mortality in Captive Asian Elephants (<i>Elephas maximus</i>). <i>PLoS ONE</i> , 2012, 7, e32335.	2.5	56
63	Maternal Risk of Breeding Failure Remained Low throughout the Demographic Transitions in Fertility and Age at First Reproduction in Finland. <i>PLoS ONE</i> , 2012, 7, e34898.	2.5	27
64	Senescence and age-specific trade-offs between reproduction and survival in female Asian elephants. <i>Ecology Letters</i> , 2012, 15, 260-266.	6.4	59
65	SELECTION ON MENOPAUSE IN TWO PREMODERN HUMAN POPULATIONS: NO EVIDENCE FOR THE MOTHER HYPOTHESIS. <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 476-489.	2.3	31
66	Producing sons reduces lifetime reproductive success of subsequent offspring in pre-industrial Finns. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 2981-2988.	2.6	51
67	The predictive adaptive response and metabolic syndrome: challenges for the hypothesis. <i>Trends in Endocrinology and Metabolism</i> , 2007, 18, 94-99.	7.1	79
68	Heritability and genetic constraints of life-history trait evolution in preindustrial humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 2838-2843.	7.1	177
69	SELECTION FOR INCREASED BROOD SIZE IN HISTORICAL HUMAN POPULATIONS. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 430-436.	2.3	17
70	Fitness benefits of prolonged post-reproductive lifespan in women. <i>Nature</i> , 2004, 428, 178-181.	27.8	536
71	Early Developmental conditions and reproductive success in humans: Downstream effects of prenatal famine, birthweight, and timing of birth. <i>American Journal of Human Biology</i> , 2003, 15, 370-379.	1.6	90
72	Month of birth predicted reproductive success and fitness in pre-modern Canadian women. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 2355-2361.	2.6	36

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73	Sons Reduced Maternal Longevity in Preindustrial Humans. <i>Science</i> , 2002, 296, 1085-1085.	12.6	123
74	Early development, survival and reproduction in humans. <i>Trends in Ecology and Evolution</i> , 2002, 17, 141-147.	8.7	259
75	Turning piles of bones into living humans. <i>Journal of Evolutionary Biology</i> , 2001, 14, 522-523.	1.7	0
76	Gender difference in benefits of twinning in pre-industrial humans: boys did not pay. <i>Journal of Animal Ecology</i> , 2001, 70, 739-746.	2.8	56
77	Reproductive investment in pre-industrial humans: the consequences of offspring number, gender and survival. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2001, 268, 1977-1983.	2.6	40
78	Natural selection on human twinning. <i>Nature</i> , 1998, 394, 533-534.	27.8	95
79	Adaptive sex ratio variation in pre-industrial human (<i>Homo sapiens</i>) populations?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1998, 265, 563-568.	2.6	55
80	Changes in Length of Grandparenthood in Finland 1790-1959. <i>Finnish Yearbook of Population Research</i> , 0, 52, 3-13.	0.0	17