

A bibliometric analysis of the interdisciplinary field of cultural evolution

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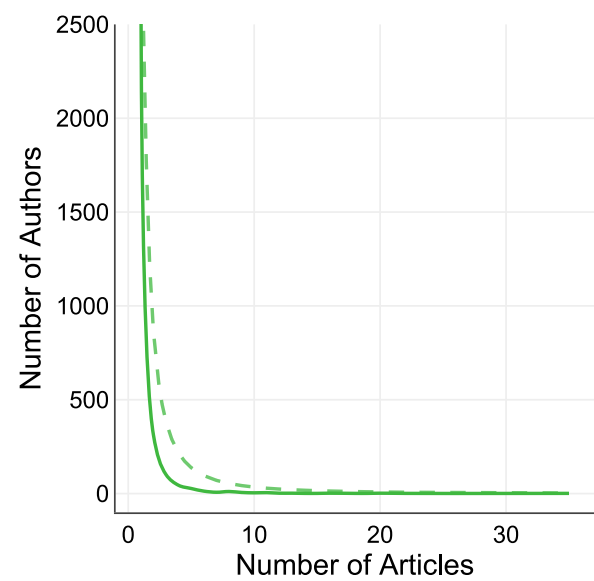
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Supplementary Information

Descriptive Network Statistics	
Collaboration Index	2.43
Small-Worldness Index	22.42
Network Density	0.0083
Stirling-Rao Diversity	0.8188

S1 Table: Descriptive network statistics.



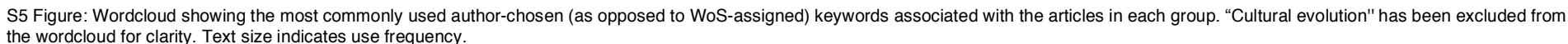
S2 Figure: The observed distribution of author productivity (solid line) alongside the theoretical inverse square function multiplied by the total number of authors in the dataset (dashed line, $y = 3451/x^2$). A Kolmogorov-Smirnov test found the observed distribution to be significantly different from the theoretical inverse square function ($p < 0.05$).

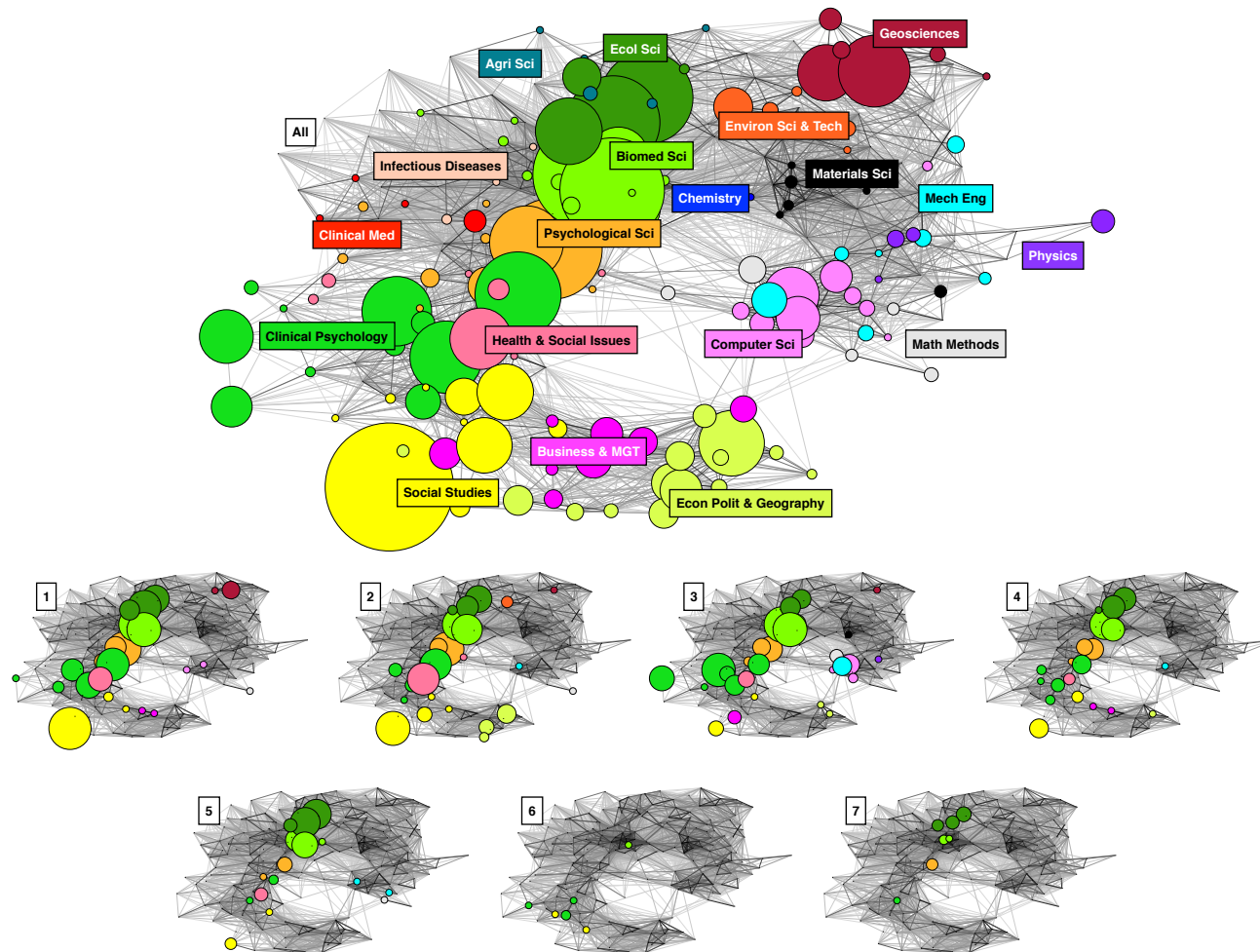
	Core Authors	Primary Departmental Affiliations
1	Alex Mesoudi	Biosciences
	Alberto Acerbi	Industrial Engineering & Innovation Science
	Kevin Laland	Biology
	Mark Collard	Archaeology
	Andrew Whiten	Psychology & Neuroscience
2	Peter Richerson	Environmental Science & Policy
	Robert Boyd	Human Evolution & Social Change
	Joseph Henrich	Human Evolutionary Biology
	Magnus Enquist	Zoology
	Stefano Ghirlanda	Psychology
3	Simon Kirby	Philosophy, Psychology, & Language Science
	Kenny Smith	Philosophy, Psychology, & Language Science
	Alex Bentley	Anthropology
	Morten Christiansen	Psychology
	Christine Caldwell	Psychology
4	Ruth Mace	Anthropology
	Russell Gray	Linguistic & Cultural Evolution
	Simon Greenhill	Linguistic & Cultural Evolution
	Thomas Currie	Biosciences
	Quentin Atkinson	Cognitive & Evolutionary Anthropology
5	Marcus Feldman	Biology
	Nicole Creanza	Biological Sciences
	Kenichi Aoki	Strategic Coordination of Research & Intellectual Properties
	Laurel Fogarty	Computation, Math & Physics in the Life Sciences and Experimental Biology
	Joe Wakano	Interdisciplinary Mathematical Sciences
6	David Buss	Psychology
	Lei Chang	Psychology
	Hui Jing Lu	Applied Social Sciences
	Todd Shackelford	Psychology
	Laith Al-Shawaf	Psychology
7	Robert Lachlan	Biological & Experimental Psychology
	Peter Slater	Biology
	Maria Servedio	Biology
	Carel ten Cate	Biology
	Machteld Verzijden	Molecular Biology and Genetics

S3 Table: Names and primary departmental affiliations of core authors.

	1	2	3	4	5	6	7
Countries	United Kingdom	Sweden	United Kingdom	New Zealand	Japan		
	Netherlands	Canada	Netherlands	United Kingdom	Switzerland		
	France						
Author-Chosen Keywords	social learning	cooperation	language evolution	cultural phylogenetics	demography	mate preferences	song learning
	cultural transmission	cultural evolution	iterated learning	phylogenetic comparative methods	cultural accumulation	evolutionary psychology	bird song
	conformity	religion	bayesian inference	cross-cultural research	gene-culture coevolution	differences	speciation
	imitation	neolithic europe	language	phylogeny		sex	
	emulation	euroevol	random genetic drift	phylogenetics			
	cultural evolution	cultural transmission	language change	fertility decline			
	chimpanzees		experimental	pastoralism			
	cultural attraction		compositionality	austronesian			
			language faculty	cultural evolution			
			iconicity	complexity			
			evolution of speech				
Subject Categories	Anthropology	Biomedical Social Sciences	Experimental Psychology	Biology	Mathematical & Computational Biology	Social Psychology	Ecology
	Biological Psychology	Biological Psychology	Linguistics		Genetics & Heredity		Evolutionary Biology
	Evolutionary Biology	Behavioral Sciences	Biophysics		Evolutionary Biology		Zoology
			Interdisciplinary Applications Mathematics		Ecology		
			Language & Linguistics		Multidisciplinary Sciences		
			Biology				
			Multidisciplinary Sciences				
			Mathematical Psychology				

S4 Table: Statistically over-represented country affiliations of first authors, author-chosen keywords, and subject categories in each cluster.





S6 Figure: A science overlay map of the entire dataset (above), as well as for each cluster of co-authors identified by VOSviewer (below). The links and nodes are based on a co-citation analysis of an exhaustive dataset of ISI subject categories from 2007, and represent a global map of science over which our own dataset is superimposed. Each node indicates a subject category represented in the dataset. The size of each node corresponds to the frequency of use, and the color corresponds to the larger disciplinary category it belongs to. Empty nodes represent subject categories not present in the dataset.

The science overlay map in S4 Figure illustrates the diversity of disciplines involved in the study of cultural evolution. The social, psychological, biomedical, and ecological sciences appear to be dominant. Although the clusters of authors share many features, some groups draw from a more varied set of disciplines than others. Group 1 is distinctive in the high degree to which it taps both the geosciences and the social sciences, in these respects contrasting especially with Group 2. Infectious disease research is not very important to cultural evolution research, although Groups 2 and 4 have made some use of it. Groups 1 and 4 have taken advantage of computer science, mathematics, and the physical sciences to a greater degree than the other groups.