

AI's and Humans: A Representative Annotated Bibliography

Emergence of Intelligence in human history

- When did humans get smart? Maybe a lot earlier than some thought, by Pete Spotts (Christian Science Monitor, November 7, 2012) <https://www.csmonitor.com/Science/2012/1107/When-did-humans-get-smart-Maybe-a-lot-earlier-than-some-thought>
- When did we become fully human? What fossils and DNA tell us about the evolution of modern intelligence, by Nicholas Longrich (The Conversation September 9, 2020) <https://theconversation.com/when-did-we-become-fully-human-what-fossils-and-dna-tell-us-about-the-evolution-of-modern-intelligence-143717>
- Gabora, L., & Russon, A. (2011). The evolution of human intelligence. In R. Sternberg & S. Kaufman (Eds.),
- The Cambridge handbook of intelligence (pp. 328-350). doi:10.1017/CBO9780511977244.018. Chapter 17: The Evolution of Intelligence

Causes of world human population explosion:

- United Nations report on the status of world population: <https://www.iberdrola.com/sustainability/world-population-evolution#:~:text=In%20addition%2C%20the%20Industrial%20Revolution,led%20to%20thi s%20exponential%20growth> Note that the report cites the commonly mentioned “causes” of the world’s human population explosion as increased: fertility, longevity, and migration. What it does NOT discuss is the underlying causes of those increases.
- Why Humans run the World. Yuval Noah Harari (Ted Talks) <https://www.youtube.com/watch?v=nzj7Wg4DAbs>. This Harari Ted talk mirrors the basic theme of my videos and of my science fiction novel, Darwin’s Dilemma – that human intelligence alone, is not a particularly useful survival tool, but it becomes hugely empowered when accompanied by social collaboration.
- The Renaissance: The 'Rebirth' of Science & Culture by Owen Jarus, Jessie Szalay (LiveScience, January 11, 2022) <https://www.livescience.com/55230-renaissance.html>. Often the printing press is noted as one of the technical achievements of the Renaissance but seldom as a cause. How else, however, did the amazing ensuing technical achievements suddenly emerge if not through the sharing of human experience?
- 6 Causes of the Renaissance. Quizlet. <https://quizlet.com/91117969/6-causes-of-the-renaissance-flash-cards/> Frequently the causes are listed without any mention of what, in turn, caused them.
- The world population explosion: causes, backgrounds and projections for the future. J. Van Bave, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3987379/>. The specific timing appears connected to the industrial revolution. “The death rate went down but the birth rate still didn’t”

Estimates of global human population in ancient times:

- See the excellent Wikipedia article on “[Prehistoric Demography](https://en.wikipedia.org/wiki/Prehistoric_demography)” for an explanation of how population data estimated from archaeological and other data: https://en.wikipedia.org/wiki/Prehistoric_demography
- [Worldwide Population Throughout Human History](https://www.worldatlas.com/articles/worldwide-population-throughout-human-history.html), World Atlas, <https://www.worldatlas.com/articles/worldwide-population-throughout-human-history.html>
- [Human Ancestors May Have Almost Died Out After Ancient Population Crash](https://www.nhm.ac.uk/discover/news/2023/august/human-ancestors-may-have-almost-died-out-ancient-population-crash.html), by James Ashworth (Natural History Museum, Aug. 31, 2023) <https://www.nhm.ac.uk/discover/news/2023/august/human-ancestors-may-have-almost-died-out-ancient-population-crash.html>

Successful animal species compared with humans:

- [The Most Successful Species on Earth](http://outsideinradio.org/shows/the-most-successful-species-on-earth) (July 28, 2022, Outside/In) <http://outsideinradio.org/shows/the-most-successful-species-on-earth>
- [Are Humans the Most Successful Species on Earth?](https://www.byarcadia.org/post/are-humans-the-most-successful-species-on-earth) By Sten de Schrijver (by Arcadia, March 26, 2023) A comparison with ants. <https://www.byarcadia.org/post/are-humans-the-most-successful-species-on-earth>
- [Abundant Animals: The Most Numerous Organisms in the World](https://www.britannica.com/list/abundant-animals-the-most-numerous-organisms-in-the-world), by Richard Pallardy (Britannica) <https://www.britannica.com/list/abundant-animals-the-most-numerous-organisms-in-the-world>

Proliferation of books following the Guttenberg Press:

- [The age of early printing: 1450–1550](https://www.britannica.com/topic/publishing/The-age-of-early-printing-1450-1550) (Britannica) <https://www.britannica.com/topic/publishing/The-age-of-early-printing-1450-1550>. “Before the invention of printing, the number of manuscript books in Europe could be counted in thousands. By 1500, after only 50 years of printing, there were more than 9 million.

Survival advantages of dispersal across landscapes

- [Explaining long-distance dispersal: effects of dispersal distance on survival and growth in a stream salamander](https://scholarworks.umt.edu/cgi/viewcontent.cgi?article=1282&context=biosci_pubs), Winsor H Lowe (Ecological Society of America – University of Montana, 2010) https://scholarworks.umt.edu/cgi/viewcontent.cgi?article=1282&context=biosci_pubs

The nature of the human capacity for trust and social responsibility:

- [Rethinking Trust](https://hbr.org/2009/06/rethinking-trust) by Roderick M. Kramer (Harvard Business Review, June 2009) <https://hbr.org/2009/06/rethinking-trust> – an interesting discussion of trust in the business context.
- [How do Humans Trust?](https://trustoverip.org/blog/2023/03/15/how-do-humans-trust/) By Scott S. Perry, CPA, CISA (Trust Over IP Foundation Blog, March 15, 2023), <https://trustoverip.org/blog/2023/03/15/how-do-humans-trust/>. Discusses the massive complexity of the human ability to differentiate self-interest from social responsibility and to know when to trust other humans.
- [Introduction to Sociology - Chapter 5, Socialization](https://opentextbc.ca/introductiontosociology/chapter/chapter5-) (BC Campus Open Textbook Publishing) <https://opentextbc.ca/introductiontosociology/chapter/chapter5->

[socialization/#:~:text=Social%20groups%20often%20provide%20the,beliefs%20and%20values%20of%20society](#). There are many resources on the basics of human socialization but this one is both readable and seems complete.

Proposed controls on AI technology:

- Can We Stop Runaway A.I.? Technologists warn about the dangers of the so-called singularity. But can anything actually be done to prevent it? by Matthew Hutson (The New Yorker, May 16, 2023). <https://www.newyorker.com/science/annals-of-artificial-intelligence/can-we-stop-the-singularity>. This profoundly informative and deeply worrisome article is well worth a read.
- Artificial Intelligence and the Future of Humans, 2. Solutions to address AI’s anticipated negative impacts (Pew Research Center, December 10, 2018) by Janna Anderson and Lee Rainie. <https://www.pewresearch.org/internet/2018/12/10/solutions-to-address-ais-anticipated-negative-impacts/> “A number of participants in this canvassing offered solutions to the worrisome potential future spawned by AI. Among them: 1) improving collaboration across borders and stakeholder groups; 2) developing policies to assure that development of AI will be directed at augmenting humans and the common good; and 3) shifting the priorities of economic, political and education systems to empower individuals to stay ahead in the ‘race with the robots.’”

Future survival of humanity on planet Earth:

- Climate Extremes Likely to Drive Land Mammal Extinction During Next Supercontinent Assembly by A. Farnsworth, Y.T.E. Yo, P. Valdes, J. Buzan, B. Mills, A. Merdith, C. Scotese, and H. Wakefield. (Nature Geoscience, Sept. 25, 2023). <https://www.nature.com/articles/s41561-023-01259-3#citeas>

Difficulty of learning to read in Chinese

- Why is learning Chinese language difficult when compared to learning the English language? (Languages Unlimited). <https://www.languagesunlimited.com/why-is-learning-chinese-language-difficult-when-compared-to-learning-the-english-language/>

The human social dilemma – self interest vs. social responsibility

- The psychology of social dilemmas: A review by Paul A.M. Van Lange, Jeff Joireman, Craig D. Parks, Eric Van Dijk (Organizational Behavior and Human Decision Processes, Volume 120, Issue 2, March 2013, Pages 125-141 – Science Direct.com) <https://www.sciencedirect.com/science/article/abs/pii/S0749597812001276#:~:text=Broadly%20defined%2C%20social%20dilemmas%20involve,the%20longer%2Dterm%20collective%20interest>.

Human “cumulative culture” in evolution

- What is cumulative cultural evolution? by Alex Mesoudi and Alex Thornton (Proceedings of the Royal Society B, the Royal Society Publishing, 13 June 2018). <https://royalsocietypublishing.org/doi/full/10.1098/rspb.2018.0712?rss=1>