

Bibliography

Note: Numbers in square brackets denote the chapter in which an entry is cited.

- Aaron, H. J. 1994. Public Policy, Values, and Consciousness. *J. Econ. Perspect.* **8**:3–21. [5]
- Abbott, R. J., J. K. James, R. I. Milne, and A. C. M. Gillies. 2003. Plant Introductions, Hybridization and Gene Flow. *Phil. Trans. R. Soc. B* **358**:1123–1132. [7]
- Abraham, J. 2010. Pharmaceuticalization of Society in Context: Theoretical, Empirical and Health Dimensions. *Sociology* **44**:603–622. [14]
- Abreu, D., and M. Brunnermeier. 2003. Bubbles and Crashes. *Econometrica* **71**:173–204. [2, 5]
- Abreu, D., and F. Gul. 2000. Bargaining and Reputation. *Econometrica* **68**:85–117. [5]
- Acemoglu, D., M. A. Dahleh, I. Lobel, and A. Ozdaglar. 2011. Bayesian Learning in Social Networks. *Rev. Econ. Stud.* **78**:1201–1236. [5]
- Acemoglu, D., S. Johnson, and J. A. Robinson. 2001. The Colonial Origins of Comparative Development: An Empirical Investigation. *Am. Econ. Rev.* **91**:1369–1401. [9]
- . 2002. Reversal of Fortune: Geography and Institutions in the Making of the Modern World Income Distribution. *Q. J. Econ.* **117**:1231–1294. [9]
- Acemoglu, D., S. Johnson, J. A. Robinson, and P. Yared. 2008. Income and Democracy. *Am. Econ. Rev.* **98**:808–842. [9, 12]
- Acemoglu, D., A. Ozdaglar, and G. A. Parandeh. 2010. Spread of (Mis) Information in Social Networks. *Games Econ. Behav.* **70**:194–227. [5]
- Acemoglu, D., and J. A. Robinson. 2006. Economic Backwardness in Political Perspective. *Am. Polit. Sci. Rev.* **100**:115–131. [10]
- . 2012. Why Nations Fail: The Origins of Power, Prosperity, and Poverty. New York: Crown Publishing Group. [10, 12]
- Acemoglu, D., D. Ticchi, and A. Vindigni. 2011. Emergence and Persistence of Inefficient States. *J. Eur. Econ. Assoc.* **9**:177–208. [10]
- Adelman, J. 2013. *Worldly Philosopher: The Odyssey of Albert O. Hirschman*. Princeton: Princeton Univ. Press. [14]
- Aghion, P., and P. Howitt. 1990. A Model of Growth through Creative Destruction. Working Paper No. 3223. Cambridge, MA: Natl. Bureau of Economic Research. [5]
- . 1998. *Endogenous Growth Theory*. Cambridge, MA: MIT Press. [5]
- Ainslie, G. 1975. Specious Reward: A Behavioral Theory of Impulsiveness and Impulse Control. *Psychol. Bull.* **82**:463. [8]
- . 1992. Picoeconomics: The Strategic Interaction of Successive Motivational States within the Person. Cambridge: Cambridge Univ. Press. [8]
- Akerlof, G. 1997. Social Distance and Social Decisions. *Econometrica* **65**:1005–1027. [9]
- Akerlof, G. A., and R. J. Shiller. 2009. *Animal Spirits: How Human Psychology Drives the Economy, and Why It Matters for Global Capitalism*. Princeton: Princeton Univ. Press. [16]
- Alesina, A. F., and P. Giuliano. 2015. Culture and Institutions. *J. Econ. Lit.* **53**:898–944. [9]
- Alford, J. R., and J. R. Hibbing. 2004. The Origin of Politics: An Evolutionary Theory of Political Behavior. *Perspect. Polit.* **2**:707–723. [12]

- Algan, Y., and P. Cahuc. 2010. Inherited Trust and Growth. *Am. Econ. Rev.* **100**:2060–2092. [9]
- Allais, M. 1953. Behavior of the Rational Man before Risk: Criticism of American School Postulates and Axioms. *Econometrica* **21**:503–546. [6, 8]
- Allan, C., and G. H. Stankey. 2009. Adaptive Environmental Management. Berlin: Springer. [1]
- Allen, R. C. 2000. Economic Structure and Agricultural Productivity in Europe, 1300–1800. *Eur. Rev. Econ. Hist.* **4**:1–25. [12]
- . 2009. Engels' Pause: Technical Change, Capital Accumulation, and Inequality in the British Industrial Revolution. *Explor. Econ. Hist.* **46**:418–435. [5]
- Anderies, J. M., and M. A. Janssen. 2011. The Fragility of Robust Social-Ecological Systems. *Global Environ. Change* **21**:1153–1156. [10]
- . 2013. Robustness of Socio-Ecological Studies: Implications for Public Policy. *Policy Stud. J.* **41**:513–536. [10]
- Andersen, S., G. W. Harrison, M. I. Lau, and E. Rutström. 2014. Discounting Behavior: A Reconsideration. *Eur. Econ. Rev.* **71**:15–33. [8]
- Anderson, P. A. 1994. A Career in Theoretical Physics. Singapore: World Scientific. [11]
- Anderson, P. W., K. J. Arrow, and D. Pines, eds. 1988. The Economy as an Evolving Complex System. Redwood City, CA: Addison-Wesley [5]
- Anselin, L. 1995. Local Indicators of Spatial Association—LISA. *Geogr. Anal.* **27**:93–115. [16]
- Antal, M. 2014. Green Goals and Full Employment: Are They Compatible? *Ecol. Econ.* **107**:276–286. [18]
- Antal, M., and J. C. J. M. van den Bergh. 2014. Green Growth and Climate Change: Conceptual and Empirical Considerations. *Climate Policy* DOI: 10.1080/14693062.2014.992003. (accessed Jan. 19, 2016). [18]
- Aoki, M. 2001. Toward a Comparative Institutional Analysis. Cambridge, MA: MIT Press. [12]
- . 2007. Endogenizing Institutions and Institutional Changes. *J. Instit. Econ.* **3**:1–31. [12]
- Argyrous, G., and R. Sethi. 1996. The Theory of Evolution and the Evolution of Theory: Veblen's Methodology in Contemporary Perspective. *Cambridge J. Econ.* **20**:475–495. [5]
- Ariely, D., and M. I. Norton. 2008. How Actions Create—Not Just Reveal—Preferences. *Trends Cogn. Sci.* **12**:13–16. [8]
- Aristotle. 350 BC/2002. *Nicomachean Ethics*. Newburyport, MA: Focus Publishing. [7]
- Arlegi, R., and M. Teschl. 2015. Conflicts in Decision Making. In: Individual and Collective Choice and Social Welfare: Essays in Honor of Nick Baigen, ed. C. Binder et al., pp. 11–29, *Studies in Choice and Welfare*. Berlin: Springer. [8]
- Arnold, L. 1998. *Random Dynamical Systems*. Monographs in Mathematics. Heidelberg: Springer [5]
- Aronson, E. 1972. *The Social Animal*. New York: W.H. Freeman. [16]
- . 2011. *The Social Animal* (11th edition). New York: Worth Publ. [16]
- Arrow, K. J. 1951. An Extension of the Basic Theorems of Classical Welfare Economics. In: *Proceedings of the Second Berkeley Symposium on Mathematical Statistics and Probability*, ed. J. Neyman, pp. 507–532. Berkeley: Univ. of California Press. [14]
- Arrow, K. J., and G. Debreu. 1954. Existence of an Equilibrium for a Competitive Economy. *Econometrica* **22**:265–290. [6]
- Arthur, W. B. 1989. Competing Technologies, Increasing Returns, and Lock-in by Historical Events. *Econ. J.* **99**:116–131. [14]

- . 1994. Increasing Returns and Path Dependence in the Economy. Ann Arbor: Univ. of Michigan Press. [10]
- . 2014. Complexity and the Economy. Cambridge: Cambridge Univ. Press. [5]
- Arthur, W. B., S. N. Durlauf, and D. Lane, eds. 1997. The Economy as an Evolving Complex System II. Redwood City, CA: Addison Wesley. [1]
- Asch, S. E. 1956. Studies of Independence and Conformity: I. A Minority of One against a Unanimous Majority. *Psychol. Monogr.* **70**:1–70. [16]
- Ashraf, Q., and O. Galor. 2011. Dynamics and Stagnation in the Malthusian Epoch. *Am. Econ. Rev.* **101**:2003–2041. [9]
- . 2013. The “out of Africa” Hypothesis, Human Genetic Diversity, and Comparative Economic Development. *Am. Econ. Rev.* **103**:1–46. [9]
- Åström, K. J., and T. Hägglund. 2006. Advanced PID Control. Durham, NC: The Instrumentation, Systems, and Automation Society. [16]
- Atkinson, Q. D., A. Meade, C. Venditti, S. J. Greenhill, and M. Pagel. 2008. Languages Evolve in Punctuational Bursts. *Science* **319**:588–588. [12]
- Atlan, H. 1992. Self-Organising Networks: Weak, Strong and Intentional. The Role of Their Underdetermination. *La Nuova Critica* **19–20**:51–70. [13]
- Atran, S., and J. Ginges. 2012. Religious and Sacred Imperatives in Human Conflict. *Science* **336**:855–857. [12]
- Auerbach, J. E., and J. C. Bongard. 2014. Environmental Influence on the Evolution of Morphological Complexity in Machines. *PLoS Comput. Biol.* **10**:e1003399. [5]
- Avent, R. 2014. The Third Great Wave: Special Report on the World Economy. *The Economist*, October 4 <http://www.economist.com/news/special-report/21621156-first-two-industrial-revolutions-inflicted-plenty-pain-ultimately-benefited>. (accessed March 8, 2016). [13]
- Axtell, R. L., J. M. Epstein, J. S. Dean, et al. 2002. Population Growth and Collapse in a Multiagent Model of the Kayenta Anasazi in Long House Valley. *PNAS* **99**(Suppl 3):7275–7279. [16]
- Ayub, Q., L. Moutsianas, Y. Chen, et al. 2014. Revisiting the Thrifty Gene Hypothesis via 65 Loci Associated with Susceptibility to Type 2 Diabetes. *Am. J. Hum. Genet.* **94**:176–185. [16]
- Babb, S. J., and J. D. Crystal. 2005. Discrimination of What, When, and Where: Implications for Episodic-Like Memory in Rats. *Learn. Motiv.* **36**:177–189. [8]
- Bacharach, M. 2006. Beyond Individual Choice: Teams and Games in Game Theory. Princeton: Princeton Univ. Press. [7]
- Baigent, N., and W. Gaertner. 1996. Never Choose the Uniquely Largest: A Characterization. *J. Econ. Theory* **8**:239–249. [8]
- Bailey, J. K., J. A. Schweitzer, B. J. Rehill, et al. 2004. Beavers as Molecular Geneticists: A Genetic Basis to the Foraging of an Ecosystem Engineer. *Ecology* **85**:603–608. [3]
- Bak, P. 1996. How Nature Works: The Science of Self-Organized Criticality. Heidelberg: Springer. [11]
- Bala, V., and S. Goyal. 2000. A Noncooperative Model of Network Formation. *Econometrica* **68**:1181–1229. [2]
- Baldwin, C. Y., and K. B. Clark. 2000. Design Rules: The Power of Modularity. Cambridge, MA: MIT Press. [10]
- Ban, S. D., C. Boesch, and K. R. L. Janmaat. 2014. Tai Chimpanzees Anticipate Revisiting High-Valued Fruit Trees from Further Distances. *Anim. Cogn.* **17**:1353–1364. [8]

- Banco Bilbao Vizcaya Argentaria. 2013. Ch@Nge: 19 Key Essays on How the Internet Is Changing Our Lives, Madrid: Turner. <https://www.bbvaopenmind.com/en/book/19-key-essays-on-how-internet-is-changing-our-lives/#> (accessed Jan. 19, 2016). [13]
- Banfield, E. C. 1958. *The Moral Basis of a Backward Society*. Glencoe: The Free Press. [9, 12]
- Barabási, A.-L. 2002. *Linked: The New Science of Networks*. New York: Perseus. [11]
- Barabási, A.-L., and R. Albert. 1999. Emergence of Scaling in Random Networks. *Science* **286**:11. [16]
- Barceló, J. A., F. Del Castillo, R. Del Olmo, et al. 2015. Simulating Patagonian Territoriality in Prehistory: Space, Frontiers and Networks among Hunter-Gatherers. In: *Agent-Based Modeling and Simulation in Archaeology*, ed. G. Wurzer et al., pp. 217–256. Cham: Springer Intl. Publ. Switzerland. [16]
- Bargh, J. A., P. M. Gollwitzer, and G. Oettingen. 2010. Motivation. In: *Handbook of Social Psychology*, ed. S. Fiske et al., pp. 268–316. New York: Wiley. [8]
- Barrett, H. C., and R. Kurzban. 2006. Modularity in Cognition: Framing the Debate. *Psychol. Rev.* **113**:628–647. [8]
- Barrett, L. F. 2006. Are Emotions Natural Kinds? *Perspect. Psychol. Sci.* **1**:28–58. [16]
- Barro, R. J. 1991. Economic Growth in a Cross Section of Countries. *Q. J. Econ.* **106**:407–443. [9]
- . 1999. Determinants of Democracy. *J. Polit. Econ.* **107**:158–183. [9, 12]
- Barth, F. 1969. *Ethnic Groups and Boundaries*. Long Grove: Waveland Press. [8]
- Bartra, O., J. T. McGuire, and J. W. Kable. 2013. The Valuation System: A Coordinate-Based Meta-Analysis of BOLD fMRI Experiments Examining Neural Correlates of Subjective Value. *NeuroImage* **76**:412–427. [6, 8]
- Bates, R. H. 1998. *Analytic Narratives*. Princeton: Princeton Univ. Press. [12]
- Baumol, W. J. 1986. Productivity Growth, Convergence, and Welfare: What the Long-Run Data Show. *Am. Econ. Rev.* **76**:1072–1085. [9]
- Beasley, W. G. 2000. *The Rise of Modern Japan* (3rd edition): Political, Economic, and Social Change since 1850. Basingstoke: Palgrave Macmillan. [12]
- Becker, G. S. 1962. Irrational Behavior and Economic Theory. *J. Polit. Econ.* **70**:1–13. [5]
- Bednar, J. 2009. *The Robust Federation: Principles for Design*. New York: Cambridge Univ. Press. [10]
- Bednar, J., A. Bramson, A. Jones-Rooy, and S. E. Page. 2010. Emergent Cultural Signatures and Persistent Diversity: A Model of Conformity and Consistency. *Ration. Soc.* **22**:407–444. [18]
- Bednar, J., Y. Chen, T. X. Liu, and S. E. Page. 2012. Behavioral Spillovers and Cognitive Load in Multiple Games: An Experimental Study. *Games Econ. Behav.* **74**:12–31. [10]
- Bednar, J., and S. E. Page. 2007. Can Game(s) Theory Explain Culture? The Emergence of Cultural Behavior within Multiple Games. *Ration. Soc.* **19**:65–97. [10, 12]
- . 2012. Revised Path Dependence. *Polit. Anal.* **20**:146–156. [10]
- Beeler, J. A., N. D. Daw, C. R. M. Frazier, and X. Zhuang. 2010. Tonic Dopamine Modulates Exploitation of Reward Learning. *Front. Behav. Neurosci.* **4**:170. [16]
- Beinhocker, E. D. 2006. *The Origin of Wealth: Evolution, Complexity, and the Radical Remaking of Economics*. Cambridge, MA: Harvard Business School Press. [4, 5]
- Beja, A., and M. B. Goldman. 1980. On the Dynamic Behavior of Prices in Disequilibrium. *J. Finance* **35**:235–248. [2]
- Belin, P., R. J. Zatorre, P. Lafaille, P. Ahad, and B. Pike. 2000. Voice-Selective Areas in Human Auditory Cortex. *Nature* **403**:309–312. [7]

- Bell, A. V. 2013. Evolutionary Thinking in Microeconomic Models: Prestige Bias and Market Bubbles. *PLoS One* **8**:e59805–e59805. [8]
- Bellwood, P. 2005. *The First Farmers: The Origins of Agricultural Societies*. Oxford: Blackwell. [12]
- Belnap, N. D., and A. R. Anderson, eds. 1975. *Entailment: The Logic of Relevance and Necessity*. Princeton: Princeton Univ. Press. [13]
- Belnap, N. D., M. Perloff, and M. Xu. 2001. *Facing the Future: Agents and Choices in Our Indeterminist World*. Oxford: Oxford Univ. Press. [13]
- Ben-Bassat, A., and M. Dahan. 2012. Social Identity and Voting Behavior. *Public Choice* **151**:193–214. [7]
- Bendor, J. B. 1985. *Parallel Systems: Redundancy in Government*. Berkeley: Univ. of California Press. [10]
- Benenson, I., I. Omer, and E. Hatna. 2002. Entity-Based Modeling of Urban Residential Dynamics: The Case of Yaffo, Tel Aviv. *Environ. Plann. B* **29**:491–512. [16]
- Benjamin, D. J., D. Cesarini, M. J. H. M. v. d. Loos, et al. 2012. The Genetic Architecture of Economic and Political Preferences. *PNAS* **109**:8026–8031. [9]
- Bennett, C. 1988. Logical Depth and Physical Complexity. In: *The Universal Turing Machine: A Half Century Survey*, ed. R. Herken, pp. 207–236. Vienna: Springer. [4]
- Beran, M. J., and A. E. Parrish. 2012. Sequential Responding and Planning in Capuchin Monkeys (*Cebus apella*). *Anim. Cogn.* **15**:1085–1094. [8]
- Beran, M. J., J. L. Pate, D. A. Washburn, and D. M. Rumbaugh. 2004. Sequential Responding and Planning in Chimpanzees (*Pan troglodytes*) and Rhesus Macaques (*Macaca mulatta*). *J. Exp. Psychol. Anim. Behav. Process.* **30**:203. [8]
- Berg, J. E., J. W. Dickhaut, and K. McCabe. 1995. Trust, Reciprocity, and Social History. *Games Econ. Behav.* **10**:122–142. [7]
- Bettencourt, L. 2013. The Origins of Scaling in Cities. *Science* **340**:1438–1441. [13]
- Bettinger, R. L. 2015. *Orderly Anarchy: Sociopolitical Evolution in Aboriginal California*. Oakland: Univ. of California Press. [12]
- Biglan, A. 2015. *The Nurture Effect: How the Science of Human Behavior Can Improve Our Lives and Our World*. Oakland, CA: New Harbinger Publications. [18]
- Binder, J. R., J. A. Frost, T. A. Hammeke, et al. 1997. Human Brain Language Areas Identified by Functional Magnetic Resonance Imaging. *J. Neurosci.* **17**:353–362. [7]
- Binder, M., and L. K. Lades. 2015. Autonomy-Enhancing Paternalism. *Kyklos* **68**:3–27. [8]
- Birch, J., and S. Okasha. 2014. Kin Selection and Its Critics. *Bioscience* **65**:22–32. [3]
- Birchenall, J. A. 2014. Random Choice and Market Demand. <http://econ.ucsb.edu/~jabirche/Papers/irrational.pdf> (accessed Jan. 19, 2016). [5]
- Blad, M., and A. Kirman. 1985. L'évolution À Long Terme D'un Modèle D'équilibre with Rationnement. *Revue d'Econ. Polit.* **6**:795–808. [5]
- Block, F., and M. Keller. 2011. *State of Innovation: The U.S. Government's Role in Technology Development*. Boulder: Paradigm. [14, 18]
- Blount, S. 1995. When Social Outcomes Aren't Fair: The Effect of Causal Attributions on Preferences. *Organ. Behav. Hum. Decis. Process.* **63**:131–144. [7]
- Boehm, C. 1999. *Hierarchy in the Forest: The Evolution of Egalitarian Behavior*. Cambridge, MA: Harvard Univ. Press. [7]
- . 2009. *Hierarchy in the Forest: The Evolution of Egalitarian Behavior*. Cambridge, MA: Harvard Univ. Press. [8]
- . 2012. *Moral Origins: The Evolution of Virtue, Altruism, and Shame*. New York: Basic Books. [3, 7, 12, 18]
- Boix, C. 2003. *Democracy and Redistribution*. New York: Cambridge Univ. Press. [10]

- Boldrin, M., and D. Levine. 2010. *Against Intellectual Monopoly*. Cambridge: Cambridge Univ. Press. [15]
- Boles, T. L., R. T. A. Croson, and J. K. Murnighan. 2000. Deception and Retribution in Repeated Ultimatum Bargaining. *Organ. Behav. Hum. Decis. Process.* **83**:235–259. [7]
- Bolton, G. E., and R. Zwick. 1995. Anonymity versus Punishment in Ultimatum Games. *Games Econ. Behav.* **10**:95–121. [7]
- Bonn, M., and P. Webley. 2000. South African Children's Understanding of Money and Banking. *Br. J. Dev. Psychol.* **18**:269–278. [8]
- Bookstaber, R. 2012. Using Agent-Based Models for Analyzing Threats to Financial Stability., Working Paper #0003, Dec. 21. Washington, D.C.: Office of Financial Research. [4]
- Borrello, M. 2010. *Evolutionary Restraints: The Contentious History of Group Selection*. Chicago: Univ. of Chicago Press. [3]
- Bourdieu, P. 1977. *Outline of a Theory of Practice*. Cambridge: Cambridge Univ. Press. [11]
- Bovens, L. 2013. Why Couldn't I Be Nudged to Dislike a Big Mac? *J. Med. Ethics* **39**:495–496. [8]
- Bowlby, J. 1969. *Attachment and Loss*, vol. 1, *Attachment*. New York: Basic Books. [8]
- Bowles, S. 2009. Did Warfare among Ancestral Hunter-Gatherer Groups Affect the Evolution of Human Social Behaviors? *Science* **324**:1293–1298. [7]
- Bowles, S., and H. Gintis. 1986. *Democracy and Capitalism: Property, Community, and the Contradictions of Modern Social Thought*. New York: Basic Books. [7]
- . 2000. Walrasian Economics in Retrospect. *Q. J. Econ.* **115**:1411–1439. [18]
- . 2011. *A Cooperative Species: Human Reciprocity and Its Evolution*. Princeton: Princeton Univ. Press. [9, 12, 13]
- Box, G. E. P., and N. R. Draper. 1987. *Empirical Model-Building and Response Surfaces*. Toronto: Wiley. [17]
- Boyd, R., H. Gintis, and S. Bowles. 2010. Coordinated Punishment of Defectors Sustains Cooperation and Can Proliferate When Rare. *Science* **328**:617–620. [7]
- Boyd, R., and P. J. Richerson. 1985. *Culture and the Evolutionary Process*. Chicago: Univ. of Chicago Press. [5, 7–9, 18]
- . 1990. Group Selection among Alternative Evolutionarily Stable Strategies. *J. Theor. Biol.* **145**:331–342. [8]
- Brock, W. A., and C. H. Hommes. 1997. A Rational Route to Randomness. *Econometrica* **65**:1059–1095. [2, 5]
- Brooks, R., and T. W. Guinnane. 2016. The Right to Associate the Rights of Association: Civil Society Organizations in Prussia, 1794–1908. In: *Organizations, Civil Society, and the Roots of Development*, ed. N. Lamoreaux and J. J. Wallis. Chicago: NBER and Univ. of Chicago Press. [12]
- Buchanan, J. 2003. Public Choice: The Origins and Development of a Research Program. In: *Champions of Freedom: Economics, Theories and Controversies*, ed. R. M. Ebeling, Ludwig Von Mises Lecture Series, vol. 31. Hillsdale, MI: Hillsdale College Press. [14]
- Buck, T. 2013. Brain Drain in Spain Leaves Scientific Research on the Wane. *Financial Times* <http://www.ft.com/cms/s/0/adb56dfe-d40e-11e2-8639-00144feab7de.html#axzz42Jc1YqEx>. (accessed March 8, 2016). [14]
- Buffett, W. 2011. Stop Coddling the Super-Rich. *NY Times*, Aug. 14, 2011. [14]
- Burks, S. V., J. P. Carpenter, and E. Verhoogen. 2003. Playing Both Roles in the Trust Game. *J. Econ. Behav. Organ.* **51**:195–216. [7]

- Burnham, K. P., and D. R. Anderson. 2002. *Model Selection and Multi-Model Inference: A Practical Information-Theoretic Approach*. New York: Springer. [12]
- Burnham, T. C. 2013. Toward a Neo-Darwinian Synthesis of Neoclassical and Behavioral Economics. *J. Econ. Behav. Organ.* **90**:1–15. [8]
- Burnham, T. C., and J. Phelan. 2000. *Mean Genes: From Food to Sex to Money, Taming Our Primal Instincts*. Cambridge, MA: Perseus. [8]
- Burrows, A. M. 2008. The Facial Expression Musculature in Primates and Its Evolutionary Significance. *Bioessays* **30**:212–225. [7]
- Burt, R. S., M. Kilduff, and S. Tasselli. 2013. Social Network Analysis: Foundations and Frontiers on Advantage. *Annu. Rev. Psychol.* **64**:527–547. [8]
- Bush, R. R., and F. Mosteller. 1955. *Stochastic Models for Learning*. New York: Wiley. [8]
- Camerer, C. 2008. The Case for Mindful Economics. In: *The Foundations of Positive and Normative Economics: A Handbook*, ed. A. Caplin and A. Schotter, pp. 43–69. Oxford: Oxford Univ. Press. [18]
- Camerer, C., and R. H. Thaler. 1995. Ultimatums, Dictators, and Manners. *J. Econ. Perspect.* **9**:209–219. [7]
- Cantner, U., and A. Pyka. 2001. Classifying Technology Policy from an Evolutionary Perspective. *Res. Policy* **30**:759–775. [18]
- Caplan, B. 2006. Terrorism: The Relevance of the Rational Choice Model. *Public Choice* **128**:91–107. [10]
- Card, D., A. Mas, and J. Rothstein. 2008. Tipping and the Dynamics of Segregation. *Q. J. Econ.* **123**:177–218. [2]
- Carlson, J., and J. C. Doyle. 2002. Complexity and Robustness. *PNAS* **99**:2538–2545. [10]
- Carneiro, R. L. 1981. The Chiefdom: Precursor of the State. In: *The Transition to Statehood in the New World*, ed. G. D. Jones and R. R. Kautz, pp. 37–79. Cambridge: Cambridge Univ. Press. [12]
- Castells, M. 2011. A Network Theory of Power. *Int. J. Commun.* **5**:773–787. [10]
- Cavalli-Sforza, L. L., and M. W. Feldman. 1982. Theory and Observation in Cultural Transmission. *Science* **218**:19–27. [7]
- Cavalli-Sforza, L. L., P. Menozzi and A. Piazza. 1994. *The History and Geography of Human Genes*. Princeton: Princeton Univ. Press. [9]
- Chabris, C. F., J. J. Lee, D. J. Benjamin, et al. 2013. Why Is It Hard to Find Genes That Are Associated with Social Science Traits? Theoretical and Empirical Considerations. *Am. J. Public Health* **103**:S152–S166. [9]
- Chanda, A., J. Cook, and L. Putterman. 2014. Persistence of Fortune: Accounting for Population Movements, There Was No Post-Columbian Reversal. *Am. Econ. J. Macroecon.* **6**:1–28. [9]
- Chandler, A. D. 1977. *The Visible Hand, the Managerial Revolution in American Business*. Cambridge, MA: Harvard Univ. Press. [4]
- Charness, G., and M. Dufwenberg. 2006. Promises and Partnership. *Econometrica* **74**:1579–1601. [7]
- Charsley, S. R. 1974. *The Formation of Ethnic Groups*, ed. A. Cohen. London: Tavistock Publications Ltd. [8]
- Choi, J.-K., and S. Bowles. 2007. The Coevolution of Parochial Altruism and War. *Science* **318**:636–640. [7]
- Chudek, M., S. Heller, S. Birch, and J. Henrich. 2012. Prestige-Biased Cultural Learning: Bystander’s Differential Attention to Potential Models Influences Children’s Learning. *Evol. Hum. Behav.* **33**:46–56. [8]
- Chwe, M. S.-K. 2013. *Jane Austen, Game Theorist*. Princeton: Princeton Univ. Press. [16]

- Cioffi-Revilla, C. 2013. *Introduction to Computational Social Science: Principles and Applications*. London: Springer. [12]
- Cisek, P., and J. F. Kalaska. 2010. Neural Mechanisms for Interacting with a World Full of Action Choices. *Annu. Rev. Neurosci.* **33**:269–298. [6]
- Clark, A. 1997. *Being There: Putting Brain, Body, and the World Together Again*. Cambridge, MA: MIT Press. [11]
- . 2013. Whatever Next? Predictive Brains, Situated Agents, and the Future of Cognitive Science. *Behav. Brain Sci.* **36**:181–204. [16]
- Clark, G. 2007. *A Farewell to Alms. A Brief Economic History of the World*. Princeton: Princeton Univ. Press. [9]
- Clayton, N. S., and A. Dickinson. 1998. Episodic-Like Memory During Cache Recovery by Scrub Jays. *Nature* **395**:272–274. [8]
- Clithero, J. A., and A. Rangel. 2014. Informatic Parcellation of the Network Involved in the Computation of Subjective Value. *Soc. Cogn. Affect. Neurosci.* **9**:1289–1302. [6]
- Coate, S., and M. Conlin. 2004. A Group Rule-Utilitarian Approach to Voter Turnout: Theory and Evidence. *Am. Econ. Rev.* **94**:1476–1504. [7]
- Cohen, W. M., and D. A. Levinthal. 1990. Absorptive Capacity: A New Perspective on Learning and Innovation. *Admin. Sci. Q.* **35**:128–152. [14]
- Colander, D. 2009. What Was It That Robbins Was Defining? *J. Hist. Econ. Thought* **31**:4. [15]
- . 2012. Solving Society’s Problems from the Bottom Up: For-Benefit Enterprises. *Challenge* **55**:69–85. [15]
- . 2014. Piketty’s Policy Proposals: How to Effectively Redistribute Income. *Real World Econ. Rev.* **69**:161–166. [15]
- . 2015. Framing the Economic Policy Debate. *Hist. Polit. Econ.* **47**:253–256. [15]
- Colander, D., H. Föllmer, A. Hass, et al. 2009. *The Financial Crisis and the Systematic Failure of Academic Economics*. Working Paper 1489. Kiel Institute for the World Economy. [18]
- Colander, D., and R. Kupers. 2014. *Complexity and the Art of Public Policy: Solving Society’s Problems from the Bottom Up*. Princeton: Princeton Univ. Press. [1, 3, 8, 12, 15, 17, 18]
- Comin, D., W. Easterly, and E. Gong. 2010. Was the Wealth of Nations Determined in 1000 BC? *Am. Econ. J. Macroecon.* **2**:65–97. [9]
- Constantinides, G. 1982. Intertemporal Asset Pricing with Heterogeneous Consumers and without Demand Aggregation. *J. Business* **55**:253–267. [5]
- Cook, J. 2014. The Role of Lactase Persistence in Precolonial Development. *J. Econ. Growth* **19**:369–406. [9]
- Cooper, D. J., and J. H. Kagel. 2013. Other-Regarding Preferences: A Selective Survey of Experimental Results. In: *Handbook of Experimental Economics*, ed. J. H. Kagel and A. E. Roth, vol. 2. Princeton: Princeton Univ. Press. [5]
- Cornell, B., and I. Welch. 1996. Culture, Information, and Screening Discrimination. *J. Polit. Econ.* **104**:542–571. [2]
- Corning, P. A., and E. Szathmáry. 2015. Synergistic Selection: A Darwinian Frame for the Evolution of Complexity. *J. Theor. Biol.* **371**:45–58. [3]
- Cover, T. M., and J. A. Thomas. 1991. *Elements of Information Theory*. New York: Wiley. [4]
- Cowan, R., A. Kirman, and M. Muller. 2015. *Entry of Black and Female Scientists in the South African Science System*. Mimeo, BETA. Strasbourg: Univ. of Strasbourg, Department of Economics. [2]

- Cox, G. W. 1994. Strategic Voting Equilibria under the Single Nontransferable Vote. *Am. Polit. Sci. Rev.* **88**:608–621. [7]
- Crawford, S. E. S., and E. Ostrom. 1995. A Grammar of Institutions. *Am. Polit. Sci. Rev.* **89**:582–600. [8]
- Crockett, M. J., and E. Fehr. 2013. Pharmacology of Economic and Social Decision Making. *Oxf. Neurosci.* 259–279. [6, 16]
- Crutchfield, J. 2009. The Hidden Fragility of Complex Systems: Consequences of Change, Changing Consequences. In: *Cultures of Change: Social Atoms and Electronic Lives*, ed. G. Ascione et al., pp. 98–111. Barcelona: ACTAR D Publishers. [10]
- Csete, M. E., and J. C. Doyle. 2002. Reverse Engineering of Biological Complexity. *Science* **295**:1664–1669. [10]
- Currarini, S., M. O. Jackson, and P. Pin. 2009. An Economic Model of Friendship: Homophily, Minorities, and Segregation. *Econometrica* **77**:1003–1045. [2]
- Currie, T. E. 2013a. Cultural Evolution Branches Out: The Phylogenetic Approach in Cross-Cultural Research. *Cross-Cultural Res.* **47**:102–130. [12]
- . 2013b. Inequality and Institutions: A Review Essay on Why Nations Fail by Daron Acemoglu and James A. Robinson. *Cliodynamics: J. Theor. Math. Hist.* **4**:153–161. [12]
- Currie, T. E., A. Bogaard, R. Cesaretti, et al. 2015. Agricultural Productivity in Past Societies: Toward an Empirically Informed Model for Testing Cultural Evolutionary Hypotheses. *Cliodynamics: J. Quant. Hist.* **6**:24–56. [12]
- Currie, T. E., S. J. Greenhill, R. D. Gray, T. Hasegawa, and R. Mace. 2010. Rise and Fall of Political Complexity in Island South-East Asia and the Pacific. *Nature* **467**:801–804. [12]
- Currie, T. E., and R. Mace. 2011. Mode and Tempo in the Evolution of Socio-Political Organization: Reconciling “Darwinian” and “Spencerian” Evolutionary Approaches in Anthropology. *Phil. Trans. R. Soc. B* **366**:1108–1117. [12]
- . 2014. Evolution of Cultural Traits Occurs at Similar Relative Rates in Different World Regions. *Proc. R. Soc. Lond. B* **281**:20141622. [12]
- Cutler, D. M., E. L. Glaeser, and J. L. Vigdor. 1999. The Rise and Decline of the American Ghetto. *J. Polit. Econ.* **107**:455–506. [2]
- Cziko, G. 1995. *Without Miracles, Universal Selection Theory and the Second Darwinian Revolution*. Cambridge, MA: MIT Press. [4]
- Danielisová, A., K. Olševiřová, R. Cimler, and T. Machálek. 2015. Understanding the Iron Age Economy: Sustainability of Agricultural Practices under Stable Population Growth. In: *Agent-Based Modeling and Simulation in Archaeology*, ed. G. Wurzer et al., pp. 183–216. Cham: Springer Intl. Publ. Switzerland. [16]
- Darley, J. M., and L. B. 1968. Bystander Intervention in Emergencies: Diffusion of Responsibility. *J. Pers. Soc. Psychol.* **8**:377–383. [16]
- Darwin, C. 1859. *On the Origin of Species by Means of Natural Selection, or the Preservation of Favored Races in the Struggle for Life*. London: John Murray. [4]
- David, P. A. 1985. Clio and the Economics of Qwerty. *Am. Econ. Rev.* **75**:332–337. [10]
- Davis, J. 1966. The Campus as a Frog Pond: An Application of the Theory of Relative Deprivation to Career Decisions of College Men. *Am. J. Sociol.* **72**:17–31. [2]
- Daw, N. D. 2013. Advanced Reinforcement Learning. In: *Neuroeconomics*, ed. P. Glimcher and E. Fehr, pp. 299–320. London: Elsevier. [8]
- Daw, N. D., S. J. Gershman, B. Seymour, P. Dayan, and R. J. Dolan. 2011. Model-Based Influences on Humans’ Choices and Striatal Prediction Errors. *Neuron* **69**:1204–1215. [8]

- Daw, N. D., and P. N. Tobler. 2013. Value Learning through Reinforcement: The Basics of Dopamine and Reinforcement Learning. In: *Neuroeconomics*, ed. P. Glimcher and E. Fehr, pp. 283–298. London: Elsevier. [8]
- Dawid, H., P. Harting, and M. Neugart. 2014. Economic Convergence: Policy Implications from a Heterogeneous Agent Model. *J. Econ. Dyn. Control* **44**:54–80. [8]
- Dean, J. S., G. J. Gumerman, J. M. Epstein, et al. 2000. Understanding Anasazi Culture Change through Agent-Based Modeling. In: *Dynamics in Human and Primate Societies: Agent-Based Modeling of Social and Spatial Processes*, ed. T. A. Kohler and G. J. Gumerman, pp. 179–205. New York: Oxford Univ. Press. [16]
- Deaton, A. 2010. Instruments, Randomization, and Learning About Development. *J. Econ. Lit.* **48**:424–455. [9]
- De Dreu, C. K., L. L. Greer, M. J. Handgraaf, et al. 2010. The Neuropeptide Oxytocin Regulates Parochial Altruism in Intergroup Conflict among Humans. *Science* **328**:1408–1411. [6, 16]
- DeGroot, M. H. 1974. Reaching a Consensus. *J. Am. Stat. Assoc.* **69**:118–121. [5]
- Dehaene, S., and M. Sigman. 2012. From a Single Decision to a Multi-Step Algorithm. *Curr. Opin. Neurobiol.* **22**:937–945. [6]
- Delange, F. 1994. The Disorders Induced by Iodine Deficiency. *Thyroid* **4**:107–128. [8]
- De Long, J. B. 1998. *Estimates of World GDP, One Million B.C.–Present*. Berkeley: Univ. of California [12].
- DeMiguel, V., L. Garlappi, and R. Uppal. 2009. Optimal versus Naive Diversification: How Inefficient Is the 1/N Portfolio Strategy? *Rev. Finan. Stud.* **22**:1915–1953. [5]
- Denison, R. F. 2012. *Darwinian Agriculture: How Understanding Evolution Can Improve Agriculture*. Princeton: Princeton Univ. Press. [18]
- Dennis, J. 1970. Support for the Institution of Elections by the Mass Public. *Am. Polit. Sci. Rev.* **64**:819–835. [7]
- Dethlefsen, L., M. McFall-Ngai, and D. A. Relman. 2007. An Ecological and Evolutionary Perspective on Human-Microbe Mutualism and Disease. *Nature* **449**:811–818. [3]
- De Villiers, M. 2001. *Water: The Fate of Our Most Precious Resource*. New York: Mariner Books. [18]
- Dewey, J. 1922/2002. *Human Nature and Conduct*. Mineola, NY: Dover. [11]
- Dezfouli, A., and B. W. Balleine. 2012. Habits, Action Sequences and Reinforcement Learning. *Eur. J. Neurosci.* **35**:1036–1051. [8]
- Diamond, J. 1997. *Guns, Germs and Steel: The Fate of Human Societies*. New York: Norton [9, 12]
- . 2014. Reversals of National Fortune, and Social Science Methodologies. *PNAS* **111**:17709–17714. [9]
- Diamond, J., and J. A. Robinson. 2010. *Natural Experiments of History*. Harvard: Harvard Univ. Press. [12]
- Dickinson, A. 1981. *Contemporary Animal Learning Theory*. Cambridge: Cambridge Univ. Press. [8]
- DiMaggio, P. J., and W. W. Powell. 1983. The Iron Cage Revisited: Institutional Isomorphism and Collective Rationality in Organizational Fields. *Am. Sociol. Rev.* **48**:147–160. [10]
- . 1991. *The New Institutionalism in Organizational Analysis*. Chicago: Univ. of Chicago Press. [11]
- Doctorow, C. 2014. *Information Doesn't Want to Be Free*. San Francisco: McSweeney's. [15]

- Doll, B. B., D. Shohamy, and N. D. Daw. 2014. Multiple Memory Systems as Substrates for Multiple Decision Systems. *Neurobiol. Learn. Mem.* **117**:4–13. [6]
- Dosi, G. 1982. Technological Paradigms and Technological Trajectories: A Suggested Interpretation of the Determinants and Directions of Technical Change. *Res. Policy* **11**:147–162. [14]
- Dosi, G., and C. Freeman. 1988. *Technical Change and Economic Theory*. London: Pinter. [5]
- Dosi, G., C. Freeman, R. Nelson, G. Silverberg, and L. Soete, eds. 1988. *Technical Change and Economic Theory*. New York: Pinter Publishers. [18]
- Dosi, G., and R. Nelson. 2010. Technical Change and Industrial Dynamics as Evolutionary Processes. In: *Handbook of the Economics of Innovation*, ed. B. H. Hall and N. Rosenberg, pp. 51–127 Amsterdam: Elsevier. [5]
- Douglas, M. 1986. *How Institutions Think*. Syracuse: Syracuse Univ. Press. [11]
- Downs, A. 1957. *An Economic Theory of Democracy*. Boston: Harper & Row. [7]
- Dreyfus, H. L. 1992. *What Computers Still Can't Do*. Cambridge, MA: MIT Press. [11]
- Duby, G. 1953/1971. *La Société Aux Xie Et Xiie Siècles Dans la Région Mâconnaise (Society in the 11th and 12th Centuries in the Mâconnais Region)*. Paris: École Pratique des Hautes Études. [13]
- Dufour, V., and E. H. M. Sterck. 2008. Chimpanzees Fail to Plan in an Exchange Task but Succeed in a Tool-Using Procedure. *Behav. Processes* **79**:19–27. [8]
- Dunbar, R. M. 1993. Coevolution of Neocortical Size, Group Size and Language in Humans. *Behav. Brain Sci.* **16**:681–735. [7]
- . 1995. *The Trouble with Science*. London: Faber & Faber. [12]
- . 2005. *The Human Story*. New York: Faber & Faber. [7]
- Dunbar, R. M., C. Gamble, and J. A. J. Gowlett. 2010. *Social Brain, Distributed Mind*. Oxford: Oxford Univ. Press. [7]
- Durlauf, S. N. 1996. A Theory of Persistent Income Inequality. *J. Econ. Growth* **1**:75–93. [2]
- Easterly, W. 2001. *The Elusive Quest for Growth*. Cambridge, MA: MIT Press. [9]
- Easterly, W., and R. Levine. 2009. *The European Origins of Economic Development*. NBER Working Paper Series No. 18162. Cambridge, MA: Natl. Bureau of Economic Research. [9]
- Edlin, A., A. Gelman, and N. Kaplan. 2007. Voting as a Rational Choice: Why and How People Vote to Improve the Well-Being of Others. *Ration. Soc.* **19**:293–314. [7]
- Edquist, C. 2005. Systems of Innovations: Perspectives and Challenges. In: *Oxford Handbook of Innovation*, ed. J. Fagerberg et al., pp. 181–208. Oxford: Oxford Univ. Press. [18]
- Efferson, C., R. Lalive, and E. Fehr. 2008a. The Coevolution of Cultural Groups and Ingroup Favoritism. *Science* **321**:1844–1849. [8]
- Efferson, C., R. Lalive, P. J. Richerson, R. McElreath, and M. Lubell. 2008b. Conformists and Mavericks: The Empirics of Frequency-Dependent Cultural Transmission. *Evol. Hum. Behav.* **29**:56–64. [8]
- Efferson, C., and P. J. Richerson. 2007. A Prolegomenon to Nonlinear Empiricism in the Human Behavioral Sciences. *Biol. Philos.* **22**:1–33. [12]
- Eisenegger, C., M. Naef, R. Snozzi, M. Heinrichs, and E. Fehr. 2010. Prejudice and Truth About the Effect of Testosterone on Human Bargaining Behaviour. *Nature* **463**:356–359. [6]
- Eldakar, O. T., M. J. Dlugos, J. W. Pepper, and D. S. Wilson. 2009a. Population Structure Mediates Sexual Conflict in Water Striders. *Science* **326**:816. [3]

- Eldakar, O. T., M. J. Dlugos, R. S. Wilcox, and D. S. Wilson. 2009b. Aggressive Mating as a Tragedy of the Commons in the Water Strider *Aquarius remigis*. *Behav. Ecol. Sociobiol.* **64**:25–33. [3]
- Eldakar, O. T., D. S. Wilson, M. J. Dlugos, and J. W. Pepper. 2010. The Role of Multilevel Selection in the Evolution of Sexual Conflict in the Water Strider *Aquarius remigis*. *Evolution* **64**:3183–3189. [3]
- Ellingsen, T., and M. Johannesson. 2011. Conspicuous Generosity. *J. Public Econ.* **95**:1131–1143. [8]
- Ellis, B. J., M. Del Giudice, T. J. Dishion, et al. 2012. The Evolutionary Basis of Risky Adolescent Behavior: Implications for Science, Policy, and Practice. *Dev. Psychol.* **48**:598–623. [18]
- Ember, C. R., and M. Ember. 2009. *Cross-Cultural Research Methods*. Walnut Creek, CA: AltaMira Press. [12]
- Enders, W., and T. Sandler. 2011. *The Political Economy of Terrorism*. New York: Cambridge Univ. Press. [10]
- Engerman, S. L., and K. L. Sokoloff. 1997. Factor Endowments, Institutions, and Differential Growth Paths among New World Economies. In: *How Latin America Fell Behind*, ed. S. Haber, pp. 260–296. Stanford: Stanford Univ. Press. [9]
- Epstein, J. 2006. *Generative Social Science: Studies in Agent-Based Computational Modeling*. Princeton: Princeton Univ. Press. [16]
- . 2008. Why Model? *J. Art. Soc. Social Simul.* **11**:412. [17]
- . 2013. *Agent_Zero: Toward Neurocognitive Foundations for Generative Social Science*. Princeton: Princeton Univ. Press. [5, 15–17]
- Epstein, J., and R. L. Axtell. 1996. *Growing Artificial Societies: Social Science from the Bottom Up*. Cambridge, MA: MIT Press. [16]
- European Commission. 2010. *Europe 2020: A European Strategy for Smart, Sustainable and Inclusive Growth*. Brussels, 3.3.2010, Com(2010) 2020. [14]
- Evren, Ö. 2012. Altruism and Voting: A Large-Turnout Result That Does Not Rely on Civic Duty or Cooperative Behavior. *J. Econ. Theory* **147**:2124–2157. [7]
- Evstigneev, I. V., T. Hens, and K. R. Schenk-Hoppé. 2009. Evolutionary Finance. In: *Handbook of Financial Markets: Dynamics and Evolution*, ed. T. Hens and K. R. Schenk-Hoppé, pp. 507–564. Amsterdam: Elsevier. [5]
- Fagerberg, J. 2003. Schumpeter and the Revival of Evolutionary Economics: An Appraisal of the Literature. *J. Evol. Econ.* **13**:125–159. [18]
- Falck, O., C. Gollier, and L. Woessmann. 2011. Arguments for and against Policies to Promote National Champions. In: *Industrial Policy for National Champions*, ed. O. Falck et al., pp. 3–9. Cambridge, MA: MIT Press. [14]
- Falletti, T. G., and J. F. Lynch. 2009. Context and Causal Mechanisms in Political Analysis. *Comp. Polit. Stud.* **42**:1143. [10]
- Farley, R., and W. H. Frey. 1994. Changes in the Segregation of Whites from Blacks During the 1980s: Small Steps toward a More Integrated Society. *Am. Sociol. Rev.* **59**:23–45. [2]
- Farmer, D. J., and D. Foley. 2009. The Economy Needs Agent-Based Modelling. *Nature* **460**:685–686. [4]
- Feddersen, T., and A. Sandroni. 2006. A Theory of Participation in Elections. *Am. Econ. Rev.* **96**:1271–1282. [7]
- Federal Ministry of Education and Research. 2013. *Education and Research in Figures 2013: Selected Information from the BMBF's Data Portal*. Berlin: Federal Ministry of Education and Research. [14]

- Feeney, M. C., W. A. Roberts, and D. F. Sherry. 2009. Memory for What, Where, and When in the Black-Capped Chickadee (*Poecile atricapillus*). *Anim. Cogn.* **12**:767–777. [8]
- Fehr, E., and U. Fischbacher. 2004. Third-Party Punishment and Social Norms. *Evol. Hum. Behav.* **25**:63–87. [15]
- Ferkin, M. H., A. Combs, J. del Barco-Trillo, A. A. Pierce, and S. Franklin. 2008. Meadow Voles, *Microtus pennsylvanicus*, Have the Capacity to Recall the “What,” “Where,” and “When” of a Single Past Event. *Anim. Cogn.* **11**:147–159. [8]
- Fisher, F. 2011. The Stability of General Equilibrium: What Do We Know and Why Is It Important? In: *General Equilibrium Analysis: A Century after Walras*, ed. P. Bridel, pp. 34–45. Abingdon: Routledge. [5]
- Fisher, R. A. 1930. *The Genetical Theory of Natural Selection*. Oxford: Clarendon Press. [10]
- Fitts, P. M., and M. I. Posner. 1967. *Human Performance*. Belmont, CA: Brooks/Cole. [16]
- Fodor, J. A. 1983. *The Modularity of Mind: An Essay on Faculty Psychology*. Cambridge, MA: MIT Press. [8]
- Föllmer, H., U. Horst, and A. Kirman. 2005. Equilibria in Financial Markets with Heterogeneous Agents: A Probabilistic Perspective. *J. Math. Econ.* **41**:123–155. [2]
- Fontana, W. 2005. The Topology of the Possible. In: *Understanding Change: Models, Methodologies and Metaphors*, ed. A. Wimmer and R. Kössler. London: Palgrave Macmillan. [11]
- Foray, D., D. Mowery, and R. R. Nelson. 2012. Public R&D and Social Challenges: What Lessons from Mission R&D Programs? *Res. Policy* **41**:1697–1902. [14]
- Frank, R. H. 2012. *The Darwin Economy: Liberty, Competition, and the Common Good*. Princeton: Princeton Univ. Press. [8]
- Freeman, C. 1995. The “National System of Innovation” in Historical Perspective. *Cambridge J. Econ.* **19**:5–24. [14]
- Frey, B. S., and J. Gallus. 2013. Political Economy of Happiness. *Appl. Econ.* **45**:4205–4211. [8]
- Friedman, B. M. 1979. Crowding out or Crowding In? The Economic Consequences of Financing Government Deficits. *Brookings Papers on Economic Activity* **3**:593–654. [14]
- Friedman, M. 1953. *Essays in Positive Economics*. Chicago: Univ. of Chicago Press. [8]
- . 1957. Introduction to a Theory of the Consumption Function. In: *A Theory of the Consumption Function*, pp. 1–6. Princeton: Princeton Univ. Press. [8]
- . 1994. *Money Mischief: Episodes in Monetary History*. New York: Houghton Mifflin Harcourt. [8]
- Friedman, M., and L. J. Savage. 1948. The Utility Analysis of Choices Involving Risk. *J. Polit. Econ.* **56**:279–304. [8]
- Friedman, M., and A. J. Schwartz. 1982. The Role of Money. In: *Monetary Trends in the United States and United Kingdom: Their Relation to Income, Prices, and Interest Rates, 1867–1975*, pp. 621–632. Chicago: Univ. of Chicago Press. [8]
- Frijda, N. H. 1986. *The Emotions*. Cambridge: Cambridge Univ. Press. [16]
- Frisch, U. 1995. *Turbulence: The Legacy of A. N. Kolmogorov*. New York: Cambridge Univ. Press. [5]
- Friston, K. 2010. The Free Energy Principle. *Nat. Rev. Neurosci.* **2**:127–138. [4]
- Fu, F., M. A. Nowak, N. A. Christakis, and J. H. Fowler. 2012. The Evolution of Homophily. *Sci. Rep.* **2**:845. [2]

- Fusco, G., and A. Minelli. 2010. Phenotypic Plasticity in Development and Evolution: Facts and Concepts. *Phil. Trans. R. Soc. B* **365**:547–556. [5]
- Gaertner, W., and Y. Xu. 1999. Rationality and External Reference. *Ration. Soc.* **11**:169–185. [8]
- Galam, S., and A. Mauger. 2003. On Reducing Terrorism Power: A Hint from Physics. *Physica A* **323**:695–704. [10]
- Galor, O., and O. Moav. 2002. Natural Selection and the Origin of Economic Growth. *Q. J. Econ.* **117**:1133–1191. [9]
- Galor, O., O. Moav, and D. Vollrath. 2009. Inequality in Landownership, the Emergence of Human-Capital Promoting Institutions, and the Great Divergence. *Rev. Econ. Stud.* **76**:143–179. [9]
- Gardner, M. 1970. Mathematical Games: The Fantastic Combinations of John Conway's New Solitaire Game "Life." *Sci. Am.* **223**:120–123. [3, 5]
- Gazzaniga, M. S., R. B. Ivry, and G. R. Mangun. 2014. *Cognitive Neuroscience: The Biology of the Mind*, (4th ed.). New York: W. W. Norton & Co. [16]
- Geels, F. W. 2002. Technological Transitions as Evolutionary Reconfiguration Processes: A Multi-Level Perspective and a Case-Study. *Res. Policy* **31**:1257–1274. [18]
- Gell-Mann, M., and S. Lloyd. 2003. Effective Complexity. Working Paper 2003-12-068, June 26, 2003. Santa Fe Institute. [5]
- Gerbault, P., R. G. Allaby, N. Boivin, et al. 2014. Storytelling and Story Testing in Domestication. *PNAS* **111**:6159–6164. [12]
- Getis, A., and J. Ord. 1992. The Analysis of Spatial Association by Use of Distance Statistics. *Geogr. Anal.* **24**:189–206. [16]
- Gigerenzer, G. 2000. *Adaptive Thinking: Rationality in the Real World*. New York: Oxford Univ. Press. [6]
- Gigerenzer, G., P. M. Todd, and ABC Research Group. 2000. *Simple Heuristics That Make Us Smart*. Oxford: Oxford Univ. Press. [5]
- Gilbert, M. 1989. *On Social Facts*. New York: Routledge. [7]
- Gilboa, I., and D. Schmeidler. 2001. *A Theory of Case-Based Decisions*. Cambridge: Cambridge Univ. Press. [7]
- Gilovich, T., D. Griffin, and D. Kahneman, eds. 2002. *Heuristics and Biases: The Psychology of Intuitive Judgment*. Cambridge: Cambridge Univ. Press. [16]
- Gintis, H. 2007. The Dynamics of General Equilibrium. *Econ. J.* **117**:1280–1309. [8, 18]
- . 2009a. *The Bounds of Reason: Game Theory and the Unification of the Behavioral Sciences*. Princeton: Princeton Univ. Press. [7]
- . 2009b. *Game Theory Evolving* (2nd edition). Princeton: Princeton Univ. Press. [18]
- . 2014. Inclusive Fitness and the Sociobiology of the Genome. *Biol. Philos.* **29**:477–515. [7]
- . 2015. *Homo Ludens: Rational Choice in Public and Private Spheres*. *J. Econ. Behav. Organ.* <http://www.umass.edu/preferen/gintis/HomoLudens.pdf>. (accessed March 2, 2016). [7]
- Gintis, H., and D. Helbing. 2014. Homo Socialis: An Analytical Core for Sociological Theory. *Rev. Behav. Econ.* **2**:1–59. [7]
- Gintis, H., C. van Schaik, and C. Boehm. 2015. The Evolutionary Origins of Human Political Systems. *Curr. Anthropol.* **56**:327–353. [7]
- Giugni, M. G., D. McAdam, and C. Tilly. 1998. *From Contention to Democracy*. London: Rowman & Littlefield. [7]
- Glaeser, E. L., R. La Porta, F. Lopez-de-Silanes, and A. Shleifer. 2004. Do Institutions Cause Growth? *J. Econ. Growth* **9**:271–303. [9, 12]

- Glimcher, P. W. 2011a. *Foundations of Neuroeconomic Analysis*. New York: Oxford Univ. Press. [6, 8]
- . 2011b. Understanding Dopamine and Reinforcement Learning: The Dopamine Reward Prediction Error Hypothesis. *PNAS* **108**(Suppl 3):15647–15654. [6, 16]
- . 2013. Value-Based Decision-Making. In: *Neuroeconomics: Decision-Making and the Brain*, ed. P. W. Glimcher and E. Fehr, pp. 375–380. New York: Academic Press. [6]
- . 2015. Understanding the Hows and Whys of Decision-Making: From Expected Utility to Divisive Normalization. *Cold Spring Harb. Symp. Quant. Biol.* **79**:169–176. [8]
- Glimcher, P. W., and E. Fehr. 2013. *Neuroeconomics: Decision-Making and the Brain*. New York: Academic Press. [6]
- GlobalCapital. 2011. KfW Domination of ECP Ends Fears of SSA Crowding-Out. Feb. 18, 2011. [14]
- Glosten, L. R., and P. R. Milgrom. 1985. Bid, Ask and Transaction Prices in a Specialist Market with Heterogeneously Informed Traders. *J. Finan. Econ.* **14**:71–100. [2]
- Gneezy, U. 2005. Deception: The Role of Consequences. *Am. Econ. Rev.* **95**:384–394. [7]
- Gode, D. K., and S. Sunder. 1993. Allocative Efficiency of Markets with Zero-Intelligence Traders: Market as a Partial Substitute for Individual Rationality. *J. Polit. Econ.* **101**:119–137. [5]
- Goertz, G. 1994. *Contexts of International Politics*. Cambridge: Cambridge Univ. Press. [10]
- Gold, J. I., and H. R. Heekeren. 2013. Neural Mechanisms for Perceptual Decision Making. In: *Neuroeconomics: Decision Making and the Brain*, ed. P. W. Glimcher and E. Fehr, pp. 355–372. New York: Academic Press. [6]
- Gold, J. I., and M. N. Shadlen. 2007. The Neural Basis of Decision Making. *Annu. Rev. Neurosci.* **30**:535–574. [6]
- Goldstein, D. G., R. P. McAfee, and S. Suri. 2014. The Wisdom of Smaller, Smarter Crowds. *Proc. 15th ACM Conf.* DOI: 10.1145/2600057.2602886. (accessed Jan. 19, 2016). [17]
- Golub, B., and M. Jackson. 2010. Naive Learning in Social Networks and the Wisdom of Crowds. *Am. Econ. J. Microecon.* **2**:112–149. [5]
- . 2012. How Homophily Affects the Speed of Learning and Best Response Dynamics. *Q. J. Econ.* **127**:1287–1338. [16]
- Goodnight, C. J. 2011. Evolution in Metacommunities. *Phil. Trans. R. Soc. B* **366**:1401–1409. [18]
- Gordon, D. 2007. Control without Hierarchy. *Nature* **446**:143. [18]
- Gould, S. J. 1988. On Replacing the Idea of Progress with an Operational Notion of Directionality. In: *Evolutionary Progress*, ed. M. Nitecki. Chicago: Univ. of Chicago Press. [18]
- Gowdy, J. 2014. Governance, Sustainability, and Evolution. In: *Governing for Sustainability: State of the World 2014*, ed. M. Renner and T. Prugh, pp. 3–40. Washington, D.C.: Island Press. [18]
- Gowdy, J., D. Dollimore, D. S. Wilson, and U. Witt. 2013. Economic Cosmology and the Evolutionary Challenge. *J. Econ. Behav. Organ.* **90**:S11–S20. [3, 18]
- Gowdy, J., and L. Krall. 2015. The Economic Origins of Ultrasociality. *Behav. Brain Sci.* <http://dx.doi.org/10.1017/S0140525X1500059X>. (accessed Jan. 19, 2016). [18]
- Goyal, S. 2009. *Connections: An Introduction to the Economics of Networks*. Princeton: Princeton Univ. Press. [2, 5]
- Granovetter, M. S. 1973. The Strength of Weak Ties. *Am. J. Sociol.* **78**:1360–1380. [10]

- Gray, P. 2013. *Free to Learn: Why Unleashing the Instinct to Play Will Make Our Children Happier, More Self-Reliant, and Better Students for Life*. New York: Basic. [18]
- Green, S. 1995. Land Degradation in Epirus. In: *The Archaeomedes Project: Understanding the Natural and Anthropogenic Causes of Land Degradation and Desertification in the Mediterranean Basin*, ed. S. E. van der Leeuw, pp. 171–324, vol. 1. Luxembourg: Office of Official Publications of the European Commission. [13]
- Green, S., and S. E. van der Leeuw. 1998. Landscape Perception in Epirus in the Late 20th Century. In: *The Archaeomedes Project: Understanding the Natural and Anthropogenic Causes of Land Degradation and Desertification in the Mediterranean*, ed. S. E. van der Leeuw, pp. 329–359. Luxembourg: Office of Official Publications of the European Commission. [13]
- Greenberg, M. S., and D. M. Frisch. 1972. Effect of Intentionality on Willingness to Reciprocate a Favor. *J. Exp. Soc. Psychol.* **8**:99–111. [7]
- Greif, A. 2006. *Institutions and the Path to the Modern Economy: Lessons from Medieval Trade*. Cambridge: Cambridge Univ. Press. [9, 10, 12]
- Greif, A., and C. Kingston. 2011. Institutions: Rules or Equilibria? In: *Political Economy of Institutions, Democracy and Voting*, ed. N. Schofield and G. Caballero, pp. 13–43. Berlin: Springer. [12]
- Greif, A., and D. D. Laitin. 2004. A Theory of Endogenous Institutional Change. *Am. Polit. Sci. Rev.* **98**:633–652. [10]
- Griffith, D. 2010. The Moran Coefficient for Non-Normal Data. *J. Stat. Plan. Inference* **140**:2980–2990. [16]
- Grimm, V., and S. F. Railsback. 2005. *Individual-Based Modeling and Ecology*. Princeton: Princeton Univ. Press. [4]
- Grin, J., J. Rotmans, J. Schot, F. W. Geels, and D. Loorbach. 2010. *Transitions to Sustainable Development: New Directions in the Study of Long Term Transformative Change*. London: Routledge. [18]
- Gross, J., E. Woelbert, J. Zimmermann, et al. 2014. Value Signals in the Prefrontal Cortex Predict Individual Preferences across Reward Categories. *J. Neurosci.* **34**:7580–7586. [6]
- Grossman, S. J., and J. E. Stiglitz. 1980. On the Impossibility of Informationally Efficient Markets. *Am. Econ. Rev.* **70**:393–408. [2]
- Guiso, L., P. Sapienza, and L. Zingales. 2009. Cultural Biases in Economic Exchange? *Q. J. Econ.* **124**:1095–1131. [9]
- Gul, F., and W. Pesendorfer. 2008. The Case for Mindless Economics. In: *The Foundations of Positive and Normative Economics: A Handbook*. Volume 1, ed. A. Caplin and A. Schotter, pp. 3–42. Oxford: Oxford Univ. Press. [18]
- Gumerman, G. J., A. C. Swedlund, J. S. Dean, and J. Epstein. 2003. The Evolution of Social Behavior in the Prehistoric American Southwest. *Artif. Life* **9**:435–444. [16]
- Gunderson, L. H., and C. S. Holling, eds. 2002. *Panarchy: Understanding Transformations in Human and Natural Systems*. Washington, D.C.: Island Press. [10, 13]
- Gunnthorsdottir, A., K. McCabe, and V. L. Smith. 2002. Using the Machiavellianism Instrument to Predict Trustworthiness in a Bargaining Game. *J. Econ. Psychol.* **23**:49–66. [7]
- Güth, W., R. Schmittberger, and B. Schwarze. 1982. An Experimental Analysis of Ultimatum Bargaining. *J. Econ. Behav. Organ.* **3**:367–388. [7]
- Güth, W., and R. Tietz. 1990. Ultimatum Bargaining Behavior: A Survey and Comparison of Experimental Results. *J. Econ. Psychol.* **11**:417–449. [7]

- Guvenen, F. 2011. Macroeconomics with Heterogeneity: A Practical Guide. *Econ. Q.* **97**:255–326. [5]
- Häberlein, M. 2006. Die Fugger. Geschichte Einer Augsburger Familie (1367–1650). Stuttgart: Kohlhammer. [13]
- Halstead, P. 2014. Two Oxen Ahead. Pre-Mechanized Farming in the Mediterranean. Hoboken: Wiley-Blackwell. [9]
- Hämäläinen, P. 2009. The Comanche Empire. Yale: Yale Univ. Press. [12]
- Hamilton, C. 2013. Earthmasters: The Dawn of the Age of Climate Engineering. New Haven: Yale University Press. [18]
- Hamlin, A., and C. Jennings. 2011. Expressive Political Behavior: Foundations, Scope and Implications. *Br. J. Polit. Sci.* **41**:645–670. [7]
- Hanson, J. A. 2004. Public Sector Banks and Their Transformation. In: The Future of State-Owned Financial Institutions, ed. G. C. e. al. Washington, D.C.: Brookings Institution Press. [14]
- Hardin, G. 1968. The Tragedy of the Commons. *Science* **162**:1243–1248. [3]
- Harman, O. 2010. The Price of Altruism: George Price and the Search for the Origins of Kindness. New York: Norton. [3]
- Harsanyi, J. C. 1977. Morality and the Theory of Rational Behavior. *Soc. Res.* **44**:623–656. [7, 8]
- Hausman, D. M. 2011. Preference, Value, Choice, and Welfare. Cambridge: Cambridge Univ. Press. [8]
- Haviland-Jones, J. M., and P. J. Wilson. 2008. A “Nose” for Emotion: Emotional Information and Challenges in Odors and Semiochemicals. In: Handbook of Emotions, (3rd ed.), ed. J. M. Haviland-Jones and L. F. Barrett. New York: Guilford Press. [16]
- Heathcote, J., K. Storesletten, and G. L. Violante. 2009. Quantitative Macroeconomics with Heterogeneous Households. *Annu. Rev. Econ.* **1**:319–354. [5]
- Henrich, J. 2004. Cultural Group Selection, Coevolutionary Processes and Large-Scale Cooperation. *J. Econ. Behav. Organ.* **53**:3–35. [18]
- Henrich, J., and R. Boyd. 1998. The Evolution of Conformist Transmission and the Emergence of between-Group Differences. *Evol. Hum. Behav.* **19**:215–241. [8]
- Henrich, J., R. Boyd, S. Bowles, et al. 2004. Foundations of Human Sociality: Economic Experiments and Ethnographic Evidence from Fifteen Small-Scale Societies. Oxford: Oxford Univ. Press. [7]
- Henrich, J., and F. J. Gil-White. 2001. The Evolution of Prestige: Freely Conferred Deference as a Mechanism for Enhancing the Benefits of Cultural Transmission. *Evol. Hum. Behav.* **22**:165–196. [8]
- Henrich, J., S. J. Heine, and A. Norenzayan. 2010. The Weirdest People in the World? *Behav. Brain Sci.* **33**:61–83. [8]
- Henrich, J., and R. McElreath. 2003. The Evolution of Cultural Evolution. *Evol. Anthropol.* **12**:123–135. [9]
- Hens, T., and K. R. Schenk-Hoppé, eds. 2009. Handbook of Financial Markets: Dynamics and Evolution. Amsterdam: Elsevier. [5]
- Herrnstein, R. J. 1970. On the Law of Effect. *J. Exp. Anal. Behav.* **13**:243–266. [8]
- Heyes, C. 2010. Where Do Mirror Neurons Come From? *Neurosci. Biobehav. Rev.* **34**:575–583. [16]
- Hildenbrand, W. 1994. Market Demand: Theory and Empirical Evidence. Princeton: Princeton Univ. Press. [5]
- Hirschman, A. O. 1967. Development Projects Observed. Washington D.C.: Brookings Institution Press. [14]

- Hodder, I. 1977. The Distribution of Material Culture Items in the Baringo District, Western Kenya. *Man* **12**:239–269. [8]
- Hoffman, M. L., M. J. Beran, and D. A. Washburn. 2009. Memory for “What,” “Where,” and “When” Information in Rhesus Monkeys (*Macaca mulatta*). *J. Exp. Psychol. Anim. Behav. Process.* **35**:143–152. [8]
- Holden, C. J., and R. Mace. 2003. Spread of Cattle Led to the Loss of Matrilineal Descent in Africa: A Coevolutionary Analysis. *Proc. R. Soc. Lond. B* **270**:2425–2433. [12]
- Holland, J. H. 1975. *Adaptation in Natural and Artificial Systems*. Ann Arbor: Univ. of Michigan Press. [11]
- . 1992. *Adaptation in Natural and Artificial Systems: An Introductory Analysis with Applications to Biology, Control, and Artificial Intelligence*. Cambridge, MA: MIT Press [10]
- . 2006. Studying Complex Adaptive Systems. *J. Sys. Sci. Complex.* **10**:1–8. [4]
- Holland, J. H., A. W. Burks, J. W. Crichton, and M. R. Finley, Jr. 1962. *Machine Adaptive Systems: Final Report*. Ora Project 05089. <http://deepblue.lib.umich.edu/bitstream/handle/2027.42/5578/bac4296.0001.001.pdf>. (accessed Jan. 19, 2016). [10]
- Hollobler, B., and D. S. Wilson. 2008. *The Superorganisms*. New York: Norton. [3]
- Holling, C. S. 1973. Resilience and the Stability of Ecological Systems. *Annu. Rev. Ecol. Syst.* **4**:1–23. [10]
- Hong, L., and S. E. Page. 2004. Groups of Diverse Problem Solvers Can Outperform Groups of High-Ability Problem Solvers. *PNAS* **101**:16385–16389. [2]
- . 2009. Interpreted and Generated Signals. *J. Econ. Theory* **144**:2174–2196. [17]
- Hooker, B. 2011. Rule Consequentialism. *Stanford Encycl. Philos.* <http://plato.stanford.edu/archives/spr2011/entries/consequentialism-rule/>. (accessed Jan. 22, 2016). [7]
- Horne, S. D., S. A. Pollick, and H. H. Q. Heng. 2015. Evolutionary Mechanism Unifies the Hallmarks of Cancer. *Int. J. Cancer* **136**:2012–2021. [18]
- Houthakker, H. S. 1950. Revealed Preference and the Utility Function. *Economica* **17**:159–174. [8]
- Huntington, S. P. 1993. *The Third Wave: Democratization in the Late 20th Century*. Norman: Univ. of Oklahoma Press. [9, 12]
- Hutchins, E. 1995. *Cognition in the Wild*. Cambridge, MA: MIT Press. [12, 18]
- Ibbertson, H. K., J. M. Tait, and M. Pearl. 1972. Himalayan Cretinism. *Adv. Exp. Med. Biol.* **30**:51–69. [8]
- Ihara, Y. 2011. Evolution of Culture-Dependent Discriminate Sociality: A Gene-Culture Coevolutionary Model. *Proc. R. Soc. Lond. B* **366**:889–900. [7]
- Ijiri, A., and H. A. Simon. 1977. *Skew Distributions and the Sizes of Business Firms*. Amsterdam: North-Holland. [11]
- Ioannides, Y. M. 2012. *From Neighborhoods to Nations: The Economics of Social Interactions*. Princeton: Princeton Univ. Press. [5, 9]
- IPCC. 2014. *Fifth Assessment Report of the Intergovernmental Panel on Climate Change*. <http://www.ipcc.ch/report/ar5>. (accessed Jan. 18, 2016). [18]
- Irons, W. 1998. Adaptively Relevant Environments versus the Environment of Evolutionary Adaptedness. *Evol. Anthropol.* **6**:194–204. [8]
- Itan, Y., A. Powell, M. A. Beaumont, J. Burger, and M. G. Thomas. 2009. The Origins of Lactase Persistence in Europe. *PLoS Comput. Biol.* **5**:e1000491. [12]
- Jablonka, E., and M. J. Lamb. 1995. *Epigenetic Inheritance and Evolution: The Lamarckian Case*. Oxford: Oxford Univ. Press. [7]

- . 2005. *Evolution in Four Dimensions: Genetic, Epigenetic, Behavioral, and Symbolic Variation in the History of Life (Life and Mind: Philosophical Issues in Biology and Psychology)*. A Bradford Book. Cambridge, MA: MIT Press. [3, 9]
- Jackson, M. O. 2010. *Social and Economic Networks*. Princeton: Princeton Univ. Press. [2, 5, 9, 18]
- Jackson, M. O., and A. Wolinsky. 1996. A Strategic Model of Social and Economic Networks. *J. Econ. Theory* **71**:44–74. [2]
- Jackson, T. 2009. Prosperity without Growth? The Transition to a Sustainable Economy. *UK Sustainable Development Commission* <http://research-repository.st-andrews.ac.uk/handle/10023/2163>. [18]
- Jacobsson, S. B., and A. Bergek. 2011. Innovation System Analyses and Sustainability Transitions: Contributions and Suggestions for Research. *Environ. Innov. Soc. Transit.* **1**:41–57. [18]
- Jaeger, C., L. Paroussos, D. Mangalagiu, et al. 2011. A New Growth Path for Europe: Generating Prosperity and Jobs in the Low-Carbon Economy. Synthesis Report. Global Climate Forum E.V. Study Commissioned by the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety. <http://www.global-climateforum.org/index.php?id=gcf-reports>. (accessed Jan. 19, 2016). [13]
- Jaffe, A. B., R. G. Newell, and R. N. Stavins. 2005. A Tale of Two Market Failures: Technology and Environmental Policy. *Ecol. Econ.* **54**:164–174. [18]
- Janssen, M., and J. Anderies. 2007. Robustness Trade-Offs in Social-Ecological Systems. *Int. J. Commons* **1**:43–65. [10]
- Jen, E. 2005. Stable or Robust? What's the Difference?, ed. E. Jen, pp. 7–20. New York: Oxford Univ. Press. [10]
- Jencks, C., and S. E. Mayer. 1990. The Social Consequences of Growing up in a Poor Neighborhood. In: *Inner-City Poverty in the United States*, pp. 111–186. Washington, D.C.: National Academies Press. [2]
- Johnson, A. W., and T. Earle. 2000. *The Evolution of Human Societies*. Stanford: Stanford Univ. Press. [12]
- Johnson, D. D. P., M. E. Price, and M. Van Vugt. 2013. Darwin's Invisible Hand: Market Competition, Evolution and the Firm. *J. Econ. Behav. Organ.* **90**:S128–S140. [1]
- Johnson, E. J., and D. G. Goldstein. 2003. Do Defaults Save Lives? *Science* **302**:1338–1339. [8]
- Judt, T. 2011. *Ill Fares the Land*. New York: Penguin Press. [14]
- Jurmain, R., H. Nelson, L. Kilgore, and W. Travathan. 1997. *Introduction to Physical Anthropology*. Cincinnati: Wadsworth Publishing Company. [7]
- Kable, J. W., and P. Glimcher. 2007. The Neural Correlates of Subjective Value During Intertemporal Choice. *Nat. Neurosci.* **10**:1625–1633. [8]
- Kahneman, D. 2011. *Thinking, Fast and Slow*. New York: Macmillan. [8]
- Kahneman, D., and A. Tversky. 1979. Prospect Theory - Analysis of Decision under Risk. *Econometrica* **47**:263–291. [6, 8]
- Kakabadse, A., and N. Kakabadse. 2002. Trends in Outsourcing: Contrasting USA and Europe. *Eur. Manag. J.* **20**:189–198. [14]
- Kao, A. B., and I. D. Couzin. 2014. Decision Accuracy in Complex Environments Is Often Maximized by Small Group Sizes. *Proc. Roy. Soc. B* **281**:20133305. [5]
- Kauffman, S. A. 1993. *The Origins of Order: Self-Organization and Selection in Evolution*. Oxford: Oxford Univ. Press. [3, 4, 11]
- Keller, M. R., and F. Block. 2012. Explaining the Transformation in the Us Innovation System: The Impact of a Small Government Program. *Socio-Econ. Rev.* **39**:397–431. [14]

- Kelly, R. L. 1995. *The Foraging Spectrum: Diversity in Hunter-Gatherer Lifeways*. Washington, D.C.: The Smithsonian Institution. [7, 8]
- Kemp, R., J. Schot, and R. Hoogma. 1998. Regime Shifts to Sustainability through Processes of Niche Formation the Approach of Strategic Niche Management. *Technol. Anal. Strateg. Manag.* **10**:175–196. [18]
- Kets, W., and A. Sandroni. 2014. A Belief-Based Theory of Homophily. In: *Complexity in Economics Seminars*. Amsterdam: Tinbergen Institute. [2]
- Keynes, J. M. 1926. *The End of Laissez-Faire*. London: Prometheus Books. [14, 18]
- . 1936/1973. *The General Theory of Employment, Interest and Money*. New York: Macmillan. [14, 16]
- Kirch, P. V. 2000. *On the Road of the Winds: An Archaeological History of the Pacific Islands before European Contact*. Berkeley and Los Angeles: Univ. of California Press. [12]
- . 2010. Controlled Comparison and Polynesian Cultural Evolution. In: *Natural Experiments of History*, ed. J. Diamond and J. A. Robinson, pp. 15–52. Cambridge, MA: Harvard Univ. Press. [12]
- Kirilenko, A. A., A. S. Kyle, M. Samadi, and T. Tuzun. 2011. *The Flash Crash: The Impact of High Frequency Trading on an Electronic Market*. Working Paper. Social Science Research Network. http://business.nd.edu/uploadedFiles/Academic_Centers/Study_of_Financial_Regulation/pdf_and_documents/2011_conf_Andrei_Kirilenko.pdf. (accessed Jan. 16, 2016). [2]
- Kirman, A. 1993. Ants, Rationality, and Recruitment. *Q. J. Econ.* **108**:137–156. [2]
- . 2010. *Complex Economics: Individual and Collective Rationality*. London: Routledge. [1, 5]
- Kirman, A., and N. J. Vriend. 2001. Evolving Market Structure: An Ace Model of Price Dispersion and Loyalty. *J. Econ. Dyn. Control* **25**:459–502. [5]
- Klepper, S. 1996. Entry, Exit, Growth, and Innovation over the Product Life Cycle. *Am. Econ. Rev.* **86**:562–583. [5]
- Klepper, S., and K. Simons. 1997. Technological Extinctions of Industrial Firms: An Inquiry into Their Nature and Causes. *Ind. Corp. Change* **6**:379–460. [5]
- Knight, J. 1992. *Institutions and Social Conflict*. New York: Cambridge Univ. Press. [10]
- Knill, D. C., and A. Pouget. 2004. The Bayesian Brain: The Role of Uncertainty in Neural Coding and Computation. *Trends Neurosci.* **27**:712–719. [4]
- Koen, B. V. 2003. *Discussion of the Method*. Oxford: Oxford Univ. Press. [15]
- Kokkonen, A., and A. Sundell. 2014. Delivering Stability: Primogeniture and Autocratic Survival in European Monarchies 1000–1800. *Am. Polit. Sci. Rev.* **108**:438–453. [12]
- Kollman, K. 2013. *Perils of Centralization: Lessons from Church, State, and Corporation*. New York: Cambridge Univ. Press. [10]
- Komlos, J., and S. Nefedov. 2002. A Compact Macromodel of Pre-Industrial Population Growth. *Hist. Meth: J. Quant. Interdisc. Hist.* **35**:92–94. [12]
- Korotayev, A. V., and D. Khaltourina. 2006. *Introduction to Social Macrodynamics: Secular Cycles and Millennial Trends in Africa*. Moscow: URSS Publishers. [12]
- Kosfeld, M., M. Heinrichs, P. J. Zak, U. Fischbacher, and E. Fehr. 2005. Oxytocin Increases Trust in Humans. *Nature* **435**:673–676. [6, 16]
- Kossinets, G., and D. J. Watts. 2009. Origins of Homophily in an Evolving Social Network. *Am. J. Sociol.* **115**:405–450. [2]
- Koszegi, B., and M. Rabin. 2006. A Model of Reference-Dependent Preferences. *Q. J. Econ.* **121**:1133–1165. [6]
- . 2007. Reference-Dependent Risk Attitudes. *Am. Econ. Rev.* **97**:1047–1073. [6]

- . 2009. Reference-Dependent Consumption Plans. *Am. Econ. Rev.* **99**:909–936. [6]
- Kowarik, K., H. Reschreter, and G. Wurzer. 2015. Mining with Agents: Modelling Prehistoric Mining and Prehistoric Economy. In: *Agent-Based Modeling and Simulation in Archaeology*, ed. G. Wurzer et al., pp. 141–159. Springer Intl. Publ. Switzerland. [16]
- Krakauer, D. C. 2006. Robustness in Biological Systems: A Provisional Taxonomy. In: *Complex Systems Science in Biomedicine*, ed. T. S. Deisboeck and J. Yasha Kresh, pp. 183–205. New York: Springer. [10]
- Kremer, M. 1993. Population Growth and Technological Change: One Million B.C. To 1990. *Q. J. Econ.* **108**:681–716. [12]
- Kreps, D. M., P. Milgrom, J. Roberts, and R. Wilson. 1982. Rational Cooperation in the Finitely Repeated Prisoners' Dilemma. *J. Econ. Theory* **27**:245–252. [5]
- Krueger, A. O. 1974. The Political Economy of the Rent-Seeking Society. *Am. Econ. Rev.* **64**:291–303. [14]
- Kuran, T. 1995. *Private Truths, Public Lies: The Social Consequences of Preference Falsification*. Cambridge, MA: Harvard Univ. Press. [12]
- Kurzban, R. 2010. *Why Everyone (Else) Is a Hypocrite: Evolution and the Modular Mind*. Princeton: Princeton Univ. Press. [8]
- Kutsukake, N., and H. Innan. 2013. Simulation-Based Likelihood Approach for Evolutionary Models of Phenotypic Traits on Phylogeny. *Evolution* **67**:355–367. [12]
- Kyle, A. S. 1985. Continuous Auctions and Insider Trading. *Econometrica* **53**:1315–1335. [2]
- Lades, L. K. 2014. Impulsive Consumption and Reflexive Thought: Nudging Ethical Consumer Behavior. *J. Econ. Psychol.* **41**:114–128. [8]
- Laitin, D. D. 2007. *Nations, States, and Violence*. Oxford: Oxford Univ. Press. [12]
- Laland, K. N., J. Odling-Smee, and S. Myles. 2010. How Culture Shaped the Human Genome: Bringing Genetics and the Human Sciences Together. *Nat. Rev. Genet.* **11**:137–148. [8]
- Lamberson, P. J., and S. E. Page. 2012. Tipping Points. *Q. J. Polit. Sci.* **7**:175–208. [10, 12]
- LaMonica, M. 2013. R&D Faces Its Own Fiscal Cliff. *MIT Technol. Rev.* <https://www.technologyreview.com/s/511886/rd-faces-its-own-fiscal-cliff/>. (accessed March 10, 2016). [14]
- Lande, R. 2009. Adaptation to an Extraordinary Environment by Evolution of Phenotypic Plasticity and Genetic Assimilation. *J. Evol. Biol.* **22**:1435–1446. [5]
- Landes, D. S. 1969. *The Unbound Prometheus: Technological Change and Industrial Development in Western Europe from 1750 to the Present*. Cambridge: Cambridge Univ. Press. [13]
- Lansing, J. S. 1991. *Priests and Programmers: Technologies of Power in the Engineered Landscape of Bali*. Princeton: Princeton University Press. [12]
- Latané, B., and J. M. Darley. 1968. Group Inhibition of Bystander Intervention in Emergencies. *J. Pers. Soc. Psychol.* **10**:215–221. [16]
- Lawson, D. W., S. James, E. Ngadaya, et al. 2015. No Evidence That Polygynous Marriage Is a Harmful Cultural Practice in Northern Tanzania. *PNAS* **112**:13827–13832. [12]
- Lazarsfeld, P. F., and R. K. Merton. 1954. Friendship as a Social Process: A Substantive and Methodological Analysis. *Freedom Contr. Modern Soc.* **18**:18–66. [2]

- Lazonick, W., and M. Mazzucato. 2013. The Risk-Reward Nexus in the Innovation-Inequality Relationship: Who Takes the Risks? Who Gets the Rewards? *Ind. Corp. Change* **22**:1093–1128. [14, 18]
- Lea, S. E. G. 2001. Economic Psychology and Ecological Economics: Two Unconventional Approaches to the Future of Economics. *World Futures* **15**:15–29. [8]
- . 2014. Myopia, Hyperbolic Discounting, and Mental Time Travel: Evolutionary Accounts of Lifetime Decisions. In: *The Interdisciplinary Science of Consumption*, ed. S. D. Preston et al., pp. 77–93. Cambridge, MA: MIT Press. [8]
- Lea, S. E. G., and M. Midgley. 1989. La Biologie de la Monnaie. *Communications* **50**:121–136. [8]
- Lea, S. E. G., and P. Webley. 2005. In Search of the Economic Self. *J. Socio-Econ.* **34**:585–604. [8]
- . 2006. Money as Tool, Money as Drug: The Biological Psychology of a Strong Incentive. *Behav. Brain Sci.* **29**:161–209. [8]
- Lebaron, B. 2006. Agent-Based Computational Finance. In: *Handbook of Computational Economics*, vol. 2., Agent-Based Computational Economics, ed. L. Tesfatsion and K. L. Judd, pp. 1187–1232. Amsterdam: North-Holland/Elsevier. [4, 5]
- LeDoux, J. E. 2003. *Synaptic Self: How Our Brains Become Who We Are*. New York: Viking. [16]
- . 2012. Rethinking the Emotional Brain. *Neuron* **73**:653–676. [16]
- Lee, H. 2009. Pacific Migration and Transnationalism: Historical Perspectives. In: *Migration and Transnationalism: Pacific Perspectives*, ed. H. Lee and S. T. Francis, pp. 7–41. Canberra: ANU E Press. [8]
- Lee, S.-I. 2001. Developing a Bivariate Spatial Association Measure: An Integration of Pearson's R and Moran's I. *J. Geograph. Syst.* **3**:369–385. [16]
- Lee, T. S., and D. Mumford. 2003. Hierarchical Bayesian Inference in the Visual Cortex. *J. Opt. Soc. Am. A Opt. Image Sci. Vis.* **20**:1434–1448. [4]
- Leggett, J. 2014. *The Energy of Nations: Risk Blindness and the Road to Renaissance*. New York: Routledge. [13]
- Leijonhufvud, A. 1997. Models and Theories. *J. Econ. Method.* **4**:193–198. [12]
- Lerner, J. S., and D. Keltner. 2000. Beyond Valence: Toward a Model of Emotion-Specific Influences on Judgement and Choice. *Cogn. Emot.* **14**:473–493. [16]
- Lerner, J. S., Y. Li, P. Valdesolo, and K. Kassam. 2015. Emotion and Decision Making. *Annu. Rev. Psychol.* **66**:799–823. [16]
- Leslie, J. C. 1996. *Principles of Behavioral Analysis*. Amsterdam: Harwood Academic Publishers. [8]
- Levine, D. K., and T. R. Palfrey. 2007. The Paradox of Voter Participation? A Laboratory Study. *Am. Polit. Sci. Rev.* **101**:143–158. [7]
- Levins, R. 1966. The Strategy of Model Building in Population Biology. *Am. Sci.* **54**:421–431. [17]
- Levy, D. J., and P. W. Glimcher. 2012. The Root of All Value: A Neural Common Currency for Choice. *Curr. Opin. Neurobiol.* **22**:1027–1038. [6, 8]
- Levy, D. J., A. C. Thavikulwat, and P. W. Glimcher. 2013. State Dependent Valuation: The Effect of Deprivation on Risk Preferences. *PLoS One* **8**:e53978. [6, 16]
- Levy, I., S. C. Lazzaro, R. B. Rutledge, and P. W. Glimcher. 2011. Choice from Non-Choice: Predicting Consumer Preferences from Blood Oxygenation Level-Dependent Signals Obtained During Passive Viewing. *J. Neurosci.* **31**:118–125. [6]
- Lewontin, R. C. 1970. The Units of Selection. *Annu. Rev. Ecol. Syst.* **1**:1–18. [12]
- Li, M., and P. Vitanyi. 1997. *An Introduction to Kolmogorov Complexity and Its Applications*. New York: Springer. [4]

- Lindert, P. H. 1985. English Population, Wages, and Prices: 1541–1913. *J. Interdis. Hist.* **15**:609–634. [12]
- Lipset, S. M. 1959. Some Social Requisites of Democracy: Economic Development and Political Legitimacy. *Am. Polit. Sci. Rev.* **53**:69–105. [12]
- Lisboa, M. B., and Z. A. Latif. 2013. Democracy and Growth in Brazil. Insper. Working Paper Wpe 311/2013. Sao Paulo: Instituto de Ensino e Pesquisa. [14]
- Lloyd, S. 2001. Measures of Complexity: A Nonexhaustive List. *IEEE Control Syst.* **21**:7–8. [5]
- Lo, A. W. 2004. The Adaptive Markets Hypothesis: Market Efficiency from an Evolutionary Perspective. *J. Portfolio Manag.* **30**:15–29. [5]
- Loewenstein, G., and R. H. Thaler. 1989. Anomalies: Intertemporal Choice. *J. Econ. Perspect.* **3**:181–193. [8]
- LoFaro, T., K. Louie, R. Webb, and P. Glimcher. 2014. The Temporal Dynamics of Cortical Normalization Models of Decision-Making. *Lett. Biomath.* **1**:209–220. [8]
- Logan, T., and J. Parman. 2015. The National Rise in Residential Segregation, Working Paper 20934. Cambridge, MA: Natl. Bureau of Economic Research. [2]
- Lohmann, S. 1994. The Dynamics of Informational Cascades: The Monday Demonstrations in Leipzig, East Germany, 1989–1991. *World Politics* **47**:42–101. [5]
- Lopez, R. S. 1967. *The Birth of Europe*. New York: M. Evans and Company. [13]
- . 1971. *The Commercial Revolution of the Middle Ages 950–1350*. Cambridge: Cambridge Univ. Press. [13]
- Lord, C. G., L. Ross, and M. R. Lepper. 1979. Biased Assimilation and Attitude Polarization: The Effects of Prior Theories on Subsequently Considered Evidence. *J. Pers. Soc. Psychol.* **37**:2098. [16]
- Louie, K., and B. De Martino. 2013. The Neurobiology of Context-Dependent Valuation and Choice. In: *Neuroeconomics: Decision Making and the Brain*, ed. P. W. a. F. E. Glimcher, pp. 455–476. New York: Academic Press. [6]
- Lucas, R. E., Jr. 1972. Expectations and the Neutrality of Money. *J. Econ. Theory* **4**:103–124. [8]
- . 1986. Adaptive Behaviour and Economic Theory. *J. Business* **59**:S401–S426. [5]
- . 1988. On the Mechanics of Economic Development. *J. Monet. Econ.* **22**:3–42. [9]
- Lucock, M. S., C. E. Martin, Z. R. Yates, and M. Veysey. 2014. Diet and Our Genetic Legacy in the Recent Anthropocene: A Darwinian Perspective to Nutritional Health. *J. Evid. Based Complementary Altern. Med.* **19**:68–83. [8]
- Lundberg, S., and R. Startz. 2007. Information and Racial Exclusion. *J. Popul. Econ.* **20**:621–642. [2]
- Lux, T. 1995. Herd Behaviour, Bubbles and Crashes. *Econ. J.* **105**:881–896. [5]
- Majumder, M. S., E. L. Cohn, S. R. Mekaru, J. E. Huston, and J. S. Brownstein. 2015. Standard Vaccination Compliance and the 2015 Measles Outbreak. *JAMA Pediatr.* **169**:494–495. [16]
- Mandal, R. K. 2007. *Microeconomic Theory*. Delhi: Atlantic Publishers. [12]
- March, J. G. 1978. Bounded Rationality, Ambiguity, and the Engineering of Choice. *Bell J. Econ.* **9**:587–608. [16]
- . 1991. Exploration and Exploitation in Organizational Learning. *Organ. Sci.* **2**:71–87. [10]
- March, J. G., and J. P. Olsen. 1989. *Rediscovering Institutions: The Organizational Basis of Politics*. New York: The Free Press. [11]
- Margulis, L. 1970. *Origin of Eukaryotic Cells*. New Haven: Yale Univ. Press. [3]
- . 1998. *Symbiotic Planet*. New York: Basic Books. [18]

- Markard, J., and B. Truffer. 2008. Technological Innovation Systems and the Multi-Level Perspective: Towards an Integrated Framework. *Res. Policy* **37**:596–615. [18]
- Marshall, A. 1920. *Principles of Economics* (8th edition). London: Macmillan and Co. [18]
- Martínez, M., and A. Moya. 2011. Natural Selection and Multi-Level Causation. *Philos. Theor. Biol.* **3**:1–23. [18]
- Marwell, G., and R. E. Ames. 1981. Economists Free Ride, Does Anyone Else? *J. Public Econ.* **15**:295–310. [12]
- Mas-Colell, A., M. D. Whinston, and J. R. Green. 1995. *Microeconomic Theory*. New York: Oxford Univ. Press. [5, 8]
- Massey, D. S., and N. A. Denton. 1993. *American Apartheid: Segregation and the Making of the Underclass*. Cambridge, MA: Harvard Univ. Press. [2]
- Mathew, S., and R. Boyd. 2011. Punishment Sustains Large-Scale Cooperation in Prestate Warfare. *PNAS* **108**:11375–11380. [12]
- Mayfield, J. E. 2013. *The Engine of Complexity, Evolution as Computation*. New York: Columbia Univ. Press. [4, 5]
- Maynard Smith, J., and E. Szathmáry. 1995. *The Major Transitions in Evolution*. New York: W.H. Freeman. [3, 18]
- . 1999. *The Origins of Life: From the Birth of Life to the Origin of Language*. Oxford: Oxford Univ. Press. [3]
- Mazur, J. E. 1984. Tests of an Equivalence Rule for Fixed and Variable Reinforcer Delays. *J. Exp. Psychol. Anim. Behav. Process.* **10**:426. [8]
- Mazzucato, M. 2013a. *The Entrepreneurial State: Debunking Public vs. Private Sector Myths*, vol. 1. Anthem Other Canon Economics. London: Anthem Press. [5, 14, 18]
- . 2013b. Financing Innovation: Creative Destruction vs. Destructive Creation. *Ind. Corp. Change* **22**:851–867. [14]
- . 2015a. Building the Entrepreneurial State: A New Framework for Envisioning and Evaluating a Mission-Oriented Public Sector. Levy Economics Institute of Bard College Working Paper 824. <http://www.levyinstitute.org/publications/building-the-entrepreneurial-state-a-new-framework-for-envisioning-and-evaluating-a-mission-oriented-public-sector>. (accessed Jan. 18, 2016). [18]
- . 2015b. The Innovative State. Governments Should Make Markets, Not Just Fix Them. Jan/Feb. *Foreign Affairs* <https://www.foreignaffairs.com/articles/america/2014-12-15/innovative-state>. (accessed Jan. 18, 2016). [14, 18]
- Mazzucato, M., and C. Penna. 2014. Beyond Market Failures: The Market Creating and Shaping Role of State Investment Banks. SPRU Working Paper Series, SWPS 2014-21. Sussex: Univ. of Sussex. [14]
- Mazzucato, M., and C. Perez. 2015. Innovation as Growth Policy. In: *The Triple Challenge: Europe in a New Age*, ed. J. Fagerberg et al., pp. 229–264. Oxford: Oxford Univ. Press. [14]
- McElreath, R., A. V. Bell, C. Efferson, et al. 2008. Beyond Existence and Aiming Outside the Laboratory: Estimating Frequency-Dependent and Pay-Off-Biased Social Learning Strategies. *Phil. Trans. R. Soc. B* **363**:3515–3528. [8]
- McElreath, R., and R. Boyd. 2008. *Mathematical Models of Social Evolution: A Guide for the Perplexed*. Chicago, IL: Univ. of Chicago Press. [12]
- McElreath, R., R. Boyd, and P. J. Richerson. 2003. Shared Norms and the Evolution of Ethnic Markers. *Curr. Anthropol.* **44**:122–129. [8]
- McFadden, D. 1974. Conditional Logit Analysis of Qualitative Choice Behavior. In: *Frontiers of Econometrics*, ed. P. Zarembka, pp. 105–142. New York: Academic Press. [6]

- McKelvey, R. D., and T. R. Palfrey. 1992. An Experimental Study of the Centipede Game. *Econometrica* **60**:803–836. [5]
- McLaren, I. P. L., C. L. D. Forrest, R. P. McLaren, et al. 2014. Associations and Propositions: The Case for a Dual-Process Account of Learning in Humans. *Neurobiol. Learn. Mem.* **108**:185–195. [8]
- McPherson, M., L. Smith-Lovin, and J. M. Cook. 2001. Birds of a Feather: Homophily in Social Networks. *Annu. Rev. Sociol.* **27**:415–444. [2, 16]
- Medema, S. 2011. *The Hesitant Hand*. Princeton: Princeton Univ. Press. [15]
- Mesoudi, A. 2011. Cultural Evolution: How Darwinian Theory Can Explain Human Culture & Synthesize the Social Sciences. London: Univ. of Chicago Press. [12]
- Mesoudi, A., A. Whiten, and K. N. Laland. 2006. Towards a Unified Science of Cultural Evolution. *Behav. Brain Sci.* **29**:329–383. [7]
- Metcalf, J. S. 1998. *Evolutionary Economics and Creative Destruction*. London: Routledge. [18]
- Meyer, E. 1961. *Römischer Staat und Staatsgedanke* (2nd ed.). Zürich: Artemis-Verlag. [13]
- Meyer, J. W., and W. R. Scott. 1994. *Institutional Environments and Organizations*. Thousand Oaks: Sage. [11]
- Michalopoulos, S., and E. Papaioannou. 2013a. National Institutions and Subnational Development in Africa. *Q. J. Econ.* **129**:51–213. [9]
- . 2013b. Pre-Colonial Ethnic Institutions and Contemporary African Development. *Econometrica* **81**:113–152. [9]
- Michod, R. E. 1999. Individuality, Immortality, and Sex. In: *Levels of Selection in Evolution*, ed. L. Keller, p. 60. Princeton: Princeton Univ. Press. [18]
- Milgrom, P., and J. Roberts. 1982. Predation, Reputation, and Entry Deterrence. *J. Econ. Theory* **27**:280–312. [5]
- Millennium Ecosystem Assessment. 2003. *Ecosystems and Human Well-Being: Synthesis*. Washington, D.C.: Island Press. [18]
- Miller, A. G., J. W. McHoskey, C. M. Bane, and T. G. Dowd. 1993. The Attitude Polarization Phenomenon: Role of Response Measure, Attitude Extremity, and Behavioral Consequences of Reported Attitude Change. *J. Pers. Soc. Psychol.* **64**:561–574. [16]
- Miller, J. H., and S. E. Page. 2007. *Complex Adaptive Systems. An Introduction to Computational Models*. Princeton: Princeton Univ. Press. [4, 5]
- Mineka, S., and M. Cook. 1993. Mechanisms Involved in the Observational Conditioning of Fear. *J. Exp. Psychol. Gen.* **122**:23–38. [16]
- Minsky, H. P. 1975. *John Maynard Keynes*. New York: Columbia Univ. Press. [2]
- . 1982. *Can “It” Happen Again: Essays on Instability and Finance*. Armonk, NY: M. E. Sharpe. [2, 10]
- . 1986. *Stabilizing an Unstable Economy*. New Haven: Yale Univ. Press. [2]
- Mises, L. von. 1981. *The Theory of Money and Credit* [1912]. Indianapolis: Liberty Fund. [8]
- Modelski, G., and W. R. Thompson. 1996. *Leading Sectors and World Powers: The Coevolution of Global Politics and Economics*. Columbia: Univ. of South Carolina Press. [12]
- Mokyr, J. 2005. The Intellectual Origins of Modern Economic Growth. *J. Econ. History* **65**:285–351. [9]
- . 2009. *The Enlightened Economy: An Economic History of Britain 1700–1850*. New Haven: Yale Univ. Press. [13]

- Moody, J. 2001. Race, School Integration, and Friendship Segregation in America. *Am. J. Sociol.* **107**:679–716. [2]
- Moreau, F. 2004. The Role of the State in Evolutionary Microeconomics. *Cambridge J. Econ.* **28**:847–874. [18]
- Moriguchi, Y., A. Negreira, M. Weierich, et al. 2011. Differential Hemodynamic Response in Affective Circuitry with Aging: An fMRI Study of Novelty, Valence, and Arousal. *J. Cogn. Neurosci.* **23**:1027–1041. [16]
- Morris, I. 2013. The Measure of Civilization: How Social Development Decides the Fate of Nations. Princeton: Princeton Univ. Press. [12]
- Mowery, D. C. 2010. Military R&D and Innovation. In: Handbook of the Economics of Innovation, ed. B. H. Hall and N. Rosenberg, pp. 1219–1256, vol. 2. Dordrecht: Elsevier. [14, 18]
- Moya, C., and B. Scelza. 2015. The Effect of Recent Ethnogenesis and Migration Histories on Perceptions of Ethnic Group Stability. *J. Cogn. Cult.* **15**:131–173. [8]
- Mulcahy, N. J., and J. Call. 2006. Apes Save Tools for Future Use. *Science* **312**:1038–1040. [8]
- Mullainathan, S., and E. Shafir. 2013. Scarcity: Why Having Too Little Means So Much. London: Penguin. [18]
- Mullins, D. A., H. Whitehouse, and Q. D. Atkinson. 2013. The Role of Writing and Recordkeeping in the Cultural Evolution of Human Cooperation. *J. Econ. Behav. Organ.* **90**:S141–S151. [1]
- Murdock, G. P. 1967. Ethnographic Atlas. Pittsburgh: Univ. of Pittsburgh Press. [12]
- Murdock, G. P., and D. R. White. 1969. Standard Cross-Cultural Sample. *Ethnology* **9**:329–369. [12]
- Murrell, P. 2009. Design and Evolution in Institutional Development: The Insignificance of the English Bill of Rights. *SSRN Electronic Journal 01/2009* DOI: 10.2139/ssrn.1522864 [12]
- Murtin, F., and R. Wacziarg. 2014. The Democratic Transition. *J. Econ. Growth* **19**:141–181. [9, 12]
- Nakahashi, W., J. Y. Wakano, and J. Henrich. 2012. Adaptive Social Learning Strategies in Temporally and Spatially Varying Environments : How Temporal vs. Spatial Variation, Number of Cultural Traits, and Costs of Learning Influence the Evolution of Conformist-Biased Transmission, Payoff-Biased Transmission. *Hum. Nat.* **23**:386–418. [8]
- Nannen, V., and J. C. J. M. van den Bergh. 2010. Policy Instruments for Evolution of Bounded Rationality: Application to Climate-Energy Problems. *Technol. Forecast. Soc. Change* **77**:76–93. [18]
- Nash, J. 1951. Non-Cooperative Games. *Ann. Math.* **54**:286–295. [16]
- Neel, J. V. 1962. Diabetes Mellitus: A “Thrifty” Genotype Rendered Detrimental by “Progress”? *Am. J. Hum. Genet.* **14**:353. [16]
- Nelson, R. R., and S. G. Winter. 1982. An Evolutionary Theory of Economic Change. Cambridge, MA: Harvard Univ. Press. [5, 14, 18]
- Ng, Y.-K. 2003. From Preference to Happiness: Towards a More Complete Welfare Economics. *Soc. Choice Welfare* **20**:307–350. [13]
- Niemi, R. G., G. Whitten, and M. N. Franklin. 1992. Constituency Characteristics, Individual Characteristics and Tactical Voting in the 1987 British General Election. *Br. J. Polit. Sci.* **22**:229–240. [7]
- Niv, Y. 2009. Reinforcement Learning in the Brain. *J. Math. Psychol.* **53**:139–154. [16]
- North, D. C. 1981. Structure and Change in Economic History. New York: W. W. Norton. [11]

- . 1990. *Institutions, Institutional Change and Economic Performance*. New York: Cambridge Univ. Press. [9, 10]
- . 1994. Economic Performance through Time. *Am. Econ. Rev.* **84**:359–368. [10]
- . 1995. Five Propositions About Institutional Change. In: *Explaining Social Institutions*, ed. J. Knight and I. Sened, pp. 15–26. Ann Arbor: Univ. of Michigan Press. [10]
- . 2005. *Understanding the Process of Economic Change*. Princeton: Princeton Univ. Press. [9, 10]
- North, D. C., and R. P. Thomas. 1973. *The Rise of the Western World: A New Economic History*. New York: Cambridge Univ. Press. [10]
- North, D. C., J. J. Wallis, and B. R. Weingast. 2009. *Violence and Social Orders: A Conceptual Framework for Interpreting Recorded Human History*. Cambridge: Cambridge Univ. Press. [12]
- North, D. C., and B. Weingast. 1989. Constitutions and Commitment: The Evolution of Institutional Governing Public Choice in Seventeenth-Century England. *J. Econ. History* **49**:803–832. [9, 12]
- Norton, B., R. Costanza, and R. Bishop. 1998. The Evolution of Preferences. Why “Sovereign” Preferences May Not Lead to Sustainable Policies and What to Do About It. *Ecol. Econ.* **24**:193–211. [18]
- Noser, R., and R. W. Byrne. 2010. How Do Wild Baboons (*Papio ursinus*) Plan Their Routes? Travel among Multiple High-Quality Food Sources with Inter-Group Competition. *Anim. Cogn.* **13**:145–155. [8]
- Nunn, N. 2012. Culture and the Historical Process. *Econ. Hist. Devel. Regions* **27**:108–126. [12]
- O’Brien, D. T., and D. S. Wilson. 2011. Community Perception: The Ability to Assess the Safety of Unfamiliar Neighborhoods and Respond Adaptively. *J. Pers. Soc. Psychol.* **100**:606–620. [18]
- Okasha, S. 2006. *Evolution and the Levels of Selection*. Oxford: Oxford Univ. Press. [3]
- Olsson, A., K. Nearing, and E. Phelps. 2007. Learning Fears by Observing Others: The Neural Systems of Social Fear Transmission. *Soc. Cogn. Affect. Neurosci.* **2**:3–11. [16]
- Olsson, O., and D. A. Hibbs, Jr. 2005. Biogeography and Long-Run Economic Development. *Eur. Econ. Rev.* **49**:909–938. [9]
- Ostrom, E. 1990. *Governing the Commons: The Evolution of Institutions for Collective Action*. New York: Cambridge Univ. Press. [5, 9, 10, 12, 18]
- . 2005. *Understanding Institutional Diversity*. Princeton: Princeton Univ. Press. [5, 9]
- Pacheco, J. M., F. C. Santos, and D. Dingli. 2014. The Ecology of Cancer from an Evolutionary Game Theory Perspective. *Interface Focus* **4**:20140019. [18]
- Padgett, J. F. 2001. Organizational Genesis, Identity and Control: The Transformation of Banking in Renaissance Florence. In: *Markets and Networks*, ed. A. Cassella and J. Rauch, pp. 211–257. New York: Russell Sage Foundation. [13]
- Padgett, J. F., and P. D. McLean. 2006. Organizational Invention and Elite Transformation: The Birth of Partnership Systems in Renaissance Florence. *Am. J. Sociol.* **111**:1463–1568. [11]
- Padgett, J. F., and W. W. Powell. 2012. *The Emergence of Organizations and Markets*. Princeton: Princeton Univ. Press. [5, 11, 13]
- Padoa-Schioppa, C. 2011. Neurobiology of Economic Choice: A Good-Based Model. *Annu. Rev. Neurosci.* **34**:333–359. [6]
- Padoa-Schioppa, C., and J. A. Assad. 2006. Neurons in the Orbitofrontal Cortex Encode Economic Value. *Nature* **441**:223–226. [8]

- Page, S. E. 2006. Path Dependence. *Q. J. Polit. Sci.* **1**:87–115. [10]
- . 2007. *The Difference: How the Power of Diversity Creates Better Groups, Firms, Schools, and Societies*. Princeton: Princeton Univ. Press. [10, 17, 18]
- . 2010. Diversity and Complexity. Princeton: Princeton Univ. Press. [4, 10, 18]
- . 2015. What Sociologists Should Know About Complexity. *Annu. Rev. Sociol.* **41**:21–41. [17, 18]
- Pagel, M., and R. Mace. 2004. The Cultural Wealth of Nations. *Nature* **428**:275–278. [3]
- Pagel, M., C. Venditti, and A. Meade. 2006. Large Punctuational Contribution of Speciation to Evolutionary Divergence at the Molecular Level. *Science* **314**:119–121. [12]
- Panics, R., and N. J. Vriend. 2007. Schelling’s Spatial Proximity Model of Segregation Revisited. *J. Public Econ.* **91**:1–24. [2]
- Panke-Buisse, K., A. C. Poole, J. K. Goodrich, R. E. Ley, and J. Kao-Kniffin. 2014. Selection on Soil Microbiomes Reveals Reproducible Impacts on Plant Function. *ISME J.* **9**:980–989. [3]
- Pape, H. C., and D. Pare. 2010. Plastic Synaptic Networks of the Amygdala for the Acquisition, Expression, and Extinction of Conditioned Fear. *Physiol. Rev.* **90**:419–463. [16]
- Pareto, V. 1971. *Manual of Political Economy*. New York: A. M. Kelley. [6]
- Parker, J., and J. Epstein. 2011. Modelling to Contain Pandemics. *Nature* **460**:687. [16]
- Parrish, A. E., B. M. Perdue, T. A. Evans, and M. J. Beran. 2013. Chimpanzees (*Pan troglodytes*) Transfer Tokens Repeatedly with a Partner to Accumulate Rewards in a Self-Control Task. *Anim. Cogn.* **16**:627–636. [8]
- Pennell, M. W., L. J. Harmon, and J. C. Uyeda. 2014. Is There Room for Punctuated Equilibrium in Macroevolution? *Trends Ecol. Evol.* **29**:23–32. [12]
- Perez, C. 2002. *Technological Revolutions and Financial Capital: The Dynamics of Bubbles and Golden Ages*. Cheltenham: Edgar Elgar. [14]
- Perreault, C., C. Moya, and R. Boyd. 2012. A Bayesian Approach to the Evolution of Social Learning. *Evol. Hum. Behav.* **33**:449–459. [5]
- Petroski, H. 2010. *The Evolution of Useful Things: How Everyday Artifacts—From Forks and Pins to Paper Clips and Zippers—Came to Be as They Are*. New York: Knopf Doubleday. [12]
- Phelps, E. S. 1972. The Statistical Theory of Racism and Sexism. *Am. Econ. Rev.* **62**:659–661. [2]
- Pidgeon, N., R. E. Kasperson, and P. Slovic. 2003. *The Social Amplification of Risk*. Cambridge: Cambridge Univ. Press. [16]
- Pirenne, H. 1927/2014. *Medieval Cities: Their Origins and the Revival of Trade* (updated English edition, Introduction by M. McCormick). Princeton: Princeton Univ. Press. [13]
- . 1937/2012. *Mohammed and Charlemagne* (English edition). London: Dover. [13]
- Platt, J. R. 1964. Strong Inference: Certain Systematic Methods of Scientific Thinking May Produce Much More Rapid Progress Than Others. *Science* **146**:347–353. [12]
- Polanyi, K. 1944/2001. *The Great Transformation: The Political and Economic Origins of Our Time*. Boston: Beacon Press. [14, 18]
- Polzer, J. T., L. P. Milton, and W. B. Swarm. 2002. Capitalizing on Diversity: Interpersonal Congruence in Small Work Groups. *Admin. Sci. Q.* **47**:296–324. [2]
- Portes, A., and R. G. Rumbaut. 2006. *Immigrant America: A Portrait*. Berkeley: Univ. of California Press. [8]
- Potts, J. 2000. *The New Evolutionary Microeconomics*. Cheltenham: Edward Elgar. [18]

- Prigogine, I. 1962. *Non-Equilibrium Statistical Mechanics*. New York: Wiley Interscience. [11]
- Putterman, L., and D. N. Weil. 2010. Post-1500 Population Flows and the Long-Run Determinants of Economic Growth and Inequality. *Q. J. Econ.* **125**:1627–1682. [9]
- PWC. 2012. Too Late for Two Degrees? Low Carbon Economy Index 2012. <https://www.thepmr.org/system/files/documents/Low%20Carbon%20Economy%20Index%202012.pdf>. (accessed Jan. 18, 2016). [18]
- Quattrone, G. A., and A. Tversky. 1998. Constrasting Rational and Psychological Analyses of Political Choice. *Am. Polit. Sci. Rev.* **82**:719–736. [7]
- Raftery, A. E. 1996. Hypothesis Testing and Model Selection. In: *Markov Chain Monte Carlo in Practice*, ed. W. R. Gilks et al., pp. 163–189. London: Chapman & Hall. [12]
- Rawls, J. 1971. *A Theory of Justice*. Cambridge, MA: Harvard Univ. Press. [7, 8]
- Read, D. W., and S. E. van der Leeuw. 2008. Biology Is Only Part of the Story.... *Phil. Trans. R. Soc. B* **363**:1959–1968. [13]
- . 2015. The Extension of Social Relations in Time and Space During the Palaeolithic. In: *Settlement, Society and Cognition in Human Evolution*, ed. F. Coward et al., pp. 31–53. Cambridge: Cambridge Univ. Press. [13]
- Relethford, J. H. 2007. *The Human Species: An Introduction to Biological Anthropology*. New York: McGraw-Hill. [7]
- Rescorla, R. A., and A. R. Wagner. 1972. A Theory of Pavlovian Conditioning: Variations in the Effectiveness of Reinforcement and Nonreinforcement. In: *Classical Conditioning II: Current Research and Theory*, ed. A. H. Black and W. F. Prokasy, pp. 64–99, vol. 20. New York: Appleton-Century-Crofts. [16]
- Richerson, P. J., and R. Boyd. 1999. Complex Societies: The Evolutionary Origins of a Crude Superorganism. *Hum. Nat.* **10**:253–289. [12]
- . 2005. *Not by Genes Alone*. Chicago: Univ. of Chicago Press. [7–9, 12]
- Riker, W. H. 1982. *Liberalism against Populism: A Confrontation between the Theory of Democracy and the Theory of Social Choice*. Prospect Heights, IL: Waveland Press. [10]
- Riker, W. H., and P. C. Ordeshook. 1968. A Theory of the Calculus of Voting. *Am. Polit. Sci. Rev.* **62**:25–42. [7]
- Rivera, M. C., and J. A. Lake. 2004. The Ring of Life Provides Evidence for a Genome Fusion Origin of Eukaryotes. *Nature* **431**:152–155. [7]
- Robbins, L. 1935. *An Essay on the Nature and Significance of Economic Science*. London: Macmillan. [18]
- Rodrik, D. 2013. *Green Industrial Policy*. *Princeton Univ. Working Paper* <https://www.sss.ias.edu/files/pdfs/Rodrik/Research/Green-growth-and-industrial-policy.pdf>. (accessed Jan. 19, 2016). [14]
- . 2015. From Welfare State to Innovation State. *Project Syndicate* <http://www.project-syndicate.org/print/labor-saving-technology-by-dani-rodrik-2015-01>. (accessed Jan. 19, 2016). [14]
- Roemer, J. 2010. Kantian Equilibrium. *Scand. J. Econ.* **112**:1–24. [7, 8]
- Romer, P. 1990. Endogenous Technological Change. *J. Polit. Econ.* **98**:S71–S102. [9]
- Rook, G. A. W. 2012. Hygiene Hypothesis and Autoimmune Diseases. *Clin. Rev. Allergy Immunol.* **42**:5–15. [1, 3]
- Roth, A. E., V. Prasnikar, M. Okuno-Fujiwara, and S. Zamir. 1991. Bargaining and Market Behavior in Jerusalem, Ljubljana, Pittsburgh, and Tokyo: An Experimental Study. *Am. Econ. Rev.* **81**:1068–1095. [7]
- Rotmans, J., and D. Loorbach. 2009. Complexity and Transition Management. *J. Indus. Ecol.* **13**:184–196. [18]

- Rutledge, R. B., M. Dean, A. Caplin, and P. W. Glimcher. 2010. Testing the Reward Prediction Error Hypothesis with an Axiomatic Model. *J. Neurosci.* **30**:13525–13536. [6]
- Sachs, J. D. 2001. Tropical Underdevelopment. NBER Working Paper 8119. Cambridge, MA: Natl. Bureau of Economic Research. [9]
- Sachs, J. D., and P. Malaney. 2002. The Economic and Social Burden of Malaria. *Nature* **415**:680–685. [12]
- Safarzynska, K., K. Frenken, and J. C. J. M. van den Bergh. 2012. Evolutionary Theorizing and Modelling of Sustainability Transitions. *Res. Policy* **41**:1011–1024. [18]
- Safarzynska, K., and J. C. J. M. van den Bergh. 2010. Demand-Supply Coevolution with Multiple Increasing Returns: Policy Analysis for Unlocking and System Transitions. *Technol. Forecast. Soc. Change* **77**:297–317. [18]
- Sah, R. K., and J. E. Stiglitz. 1985. Human Fallibility and Economic Organization. *Am. Econ. Rev.* **75**:292–297. [10]
- . 1986. The Architecture of Economic Systems: Hierarchies and Polyarchies. *Am. Econ. Rev.* **76**:716–727. [10]
- Saikat, S. Q., J. W. Carter, A. Mehra, B. L. Smith, and A. Stewart. 2004. Goitre and Environmental Iodine Deficiency in the UK: Derbyshire: A Review. *Environ. Geochem. Health* **26**:395–401. [8]
- Samuelson, P. A. 1947. Foundations of Economic Analysis. Harvard Economic Studies, vol. 80. Cambridge, MA: Harvard Univ. Press. [6, 8]
- Sanchez, R., and J. T. Mahoney. 1996. Modularity, Flexibility, and Knowledge Management in Product and Organization Design. *Strategic Manag. J.* **17**:63–76. [10]
- Sardemov, I. 2007. Burnt into the Brain? *Democratization* **14**:407–424. [12]
- Savage, L. J. 1954. The Foundations of Statistics. New York: Wiley. [7]
- Schaffer, R. H., and R. Ashkenas. 2007. Rapid Results! How 100-Day Projects Build the Capacity for Large-Scale Change. New York: Jossey-Bass. [3]
- Scheffer, M., J. Bascompte, W. A. Brock, et al. 2009. Early-Warning Signals for Critical Transitions. *Nature* **461**:53–59. [10, 18]
- Scheidel, W., I. Morris, and R. P. Saller. 2007. The Cambridge Economic History of the Greco-Roman World. Cambridge: Cambridge Univ. Press. [12]
- Schelling, T. C. 1971. Dynamic Models of Segregation. *J. Math. Sociol.* **1**:143–186. [2, 5]
- . 1978. Micromotives and Macrobehavior. New York: W. W. Norton & Company. [2]
- Schmid, A. A. 2004. Conflict and Cooperation: Institutional and Behavioral Economics. New York: Wiley. [10]
- Schneider, E. D., and J. J. Kay. 1994. Complexity and Thermodynamics: Towards a New Ecology. *Futures* **24**:626–647. [18]
- Schubert, C. 2012. Is Novelty Always a Good Thing? Towards an Evolutionary Welfare Economics. *J. Evol. Econ.* **22**:85–619. [18]
- Schultz, P. W., J. M. Nolan, R. B. Cialdini, N. J. Goldstein, and V. Griskevicius. 2007. The Constructive, Destructive, and Reconstructive Power of Social Norms. *Psychol. Sci.* **18**:429–434. [8]
- Schultz, W. 2006. Behavioral Theories and the Neurophysiology of Reward. *Annu. Rev. Psychol.* **57**:87–115. [6]
- Schumpeter, J. A. 1934. The Theory of Economic Development. Cambridge, MA: Harvard Univ. Press. [5, 18]
- . 1942. The Process of Creative Destruction. In: Capitalism, Socialism and Democracy, Part II, pp. 81–87. London: George Allen & Unwin. [5, 11]
- Scitovsky, T. 1981. The Desire for Excitement. *Kyklos* **34**:3–13. [8]

- Seabright, P. 2010. *The Company of Strangers: A Natural History of Economic Life* (revised edition). Princeton: Princeton Univ. Press. [9]
- Searle, J. 1995. *The Construction of Social Reality*. New York: Free Press. [7]
- Seeley, T. D. 2010. *Honeybee Democracy*. Princeton: Princeton Univ. Press. [3]
- Seeley, T. D., P. K. Visscher, T. Schlegel, et al. 2012. Stop Signals Provide Cross Inhibition in Collective Decision-Making by Honeybee Swarms. *Science* **335**:108–111. [3]
- Sethi, R. 1996. Endogenous Regime Switching in Speculative Markets. *Struc. Change Econ. Dyn.* **7**:99–118. [2, 5]
- . 2012. Market Ecology and the Economics of Crisis. In: *Social Fairness and Economics*, ed. L. Taylor et al., pp. 353–373. New York: Routledge. [10]
- Sethi, R., and R. Somanathan. 2004. Inequality and Segregation. *J. Polit. Econ.* **112**:1296–1321. [2]
- . 2009. Racial Inequality and Segregation Measures: Some Evidence from the 2000 Census. *Rev. Black Polit. Econ.* **36**:79–91. [2]
- Shachar, R., and B. Nalebuff. 1999. Follow the Leader: Theory and Evidence on Political Participation. *Am. Econ. Rev.* **89**:525–547. [7]
- Shannon, C. 1949. *The Mathematical Theory of Communication*. Urbana: Univ. of Illinois Press. [11]
- Shayo, M., and A. Harel. 2012. Non-Consequentialist Voting. *J. Econ. Behav. Organ.* **81**:299–313. [7]
- Simon, H. A. 1955. A Behavioral Model of Rational Choice. *Q. J. Econ.* **69**:99–118. [6, 16]
- . 1969. *The Sciences of the Artificial*. Cambridge, MA: MIT Press. [11, 16]
- . 1978. Rationality as Process and as Product of Thought. *Am. Econ. Rev.* **68**:1–16. [16]
- Skinner, B. F. 1969. *Contingencies of Reinforcement: A Theoretical Analysis*, vol. 3. New York: Appleton-Century-Crofts. [8]
- . 1981. Selection by Consequences. *Science* **213**:501–504. [18]
- Skvortsova, V., S. Palminteri, and M. Pessiglione. 2014. Learning to Minimize Efforts versus Maximizing Rewards: Computational Principles and Neural Correlates. *J. Neurosci.* **34**:15621–15630. [16]
- Slater, G. J., and L. J. Harmon. 2013. Unifying Fossils and Phylogenies for Comparative Analyses of Diversification and Trait Evolution. *Meth. Ecol. Evol.* **4**:699–702. [12]
- Slovic, P. 2007. “If I Look at the Mass I Will Never Act”: Psychic Numbing and Genocide. *Judgm. Decis. Mak.* **2**:79–95. [16]
- Slovic, P., M. Finucane, E. Peters, and D. G. MacGregor. 2002. The Affect Heuristic. In: *Heuristics and Biases: The Psychology of Intuitive Judgment*, ed. T. Gilovich et al., pp. 397–420. Cambridge: Cambridge Univ. Press. [16]
- Smaldino, P. E. 2014. The Cultural Evolution of Emergent Group-Level Traits. *Behav. Brain Sci.* **37**:243–254. [12]
- Smith, A. 1776/2014. *The Wealth of Nations*. Hollywood, FL: Simon & Brown. [3]
- Smith, J. M., and E. Szathmáry. 2000. *The Origins of Life: From the Birth of Life to the Origin of Language*. Oxford: Oxford Univ. Press. [8]
- Smith, K. S., and A. M. Graybiel. 2013. A Dual Operator View of Habitual Behavior Reflecting Cortical and Striatal Dynamics. *Neuron* **79**:361–374. [8]
- Sober, E., and D. S. Wilson. 1998. *Unto Others: The Evolution and Psychology of Unselfish Behavior*. Cambridge, MA: Harvard Univ. Press. [3]
- Sol, D., S. Timmermans, and L. Lefebvre. 2002. Behavioral Flexibility and Invasion Success in Birds. *Anim. Behav.* **63**:495–502. [5]

- Solow, R. M. 1956. A Contribution to the Theory of Economic Growth. *Q. J. Econ.* **70**:65–94. [9]
- Somerville, L. H., and P. J. Whalen. 2006. Prior Experience as a Stimulus Category Confound: An Example Using Facial Expressions of Emotion. *Soc. Cogn. Affect. Neurosci.* **1**:271–274. [16]
- Spencer, C. S. 1990. On the Tempo and Mode of State Formation: Neoevolutionism Reconsidered. *J. Anthropol. Archaeol.* **9**:1–30. [12]
- . 2010. Territorial Expansion and Primary State Formation. *PNAS* **107**:7119–7126. [12]
- Spolaore, E., ed. 2014. Culture and Economic Growth. Cheltenham: Edward Elgar. [9]
- Spolaore, E., and R. Wacziarg. 2009. The Diffusion of Development. *Q. J. Econ.* **124**:469–529. [9]
- . 2012. Long-Term Barriers to the International Diffusion of Innovations. In: NBER Intl. Seminar on Macroeconomics, ed. J. Frankel and C. Pissarides, pp. 11–46. Chicago: Univ. of Chicago Press. [9]
- . 2013. How Deep Are the Roots of Economic Development? *J. Econ. Lit.* **51**:325–369. [9, 12]
- . 2014. Fertility and Modernity. Working Paper, UCLA and Tufts Univ. http://www.anderson.ucla.edu/faculty_pages/romain.wacziarg/downloads/fertility.pdf. (accessed Jan. 14, 2016). [9]
- . 2016. War and Relatedness. *Rev. Econ. Stat.*, in press. [9]
- Spriggs, E. L., P.-A. Christin, and E. J. Edwards. 2014. C4 Photosynthesis Promoted Species Diversification During the Miocene Grassland Expansion. *PLoS One* **9**:e97722. [5]
- Spufford, P. 2003. Power and Profit: The Merchant in Medieval Europe. London: Thames & Hudson. [13]
- Squire, L. R., and S. M. Zola. 1996. Structure and Function of Declarative and Nondeclarative Memory Systems. *PNAS* **93**:13515–13522. [8]
- Steinmo, S. 2010. The Evolution of Modern States: Sweden, Japan, and the United States. Cambridge: Cambridge Univ. Press. [12]
- Stern, N. 2006. Stern Review on the Economics of Climate Change, London: HM Treasury. <http://www.webcitation.org/5nCeyEYJr> (accessed Jan. 19, 2016). [13]
- Sterner, T. 2002. Policy Instruments for Environmental and Natural Resource Management. Washington, D.C.: Resources for the Future Press. [18]
- Stiglitz, J., and A. Weiss. 1981. Credit Rationing in Markets with Imperfect Information. *Am. Econ. Rev.* **3**:393–410. [14]
- Stirling, A. 2007. A General Framework for Analysing Diversity in Science, Technology and Society. *J. R. Soc. Interface* **4**:707–719. [18]
- Stoelhorst, J. W., and P. J. Richerson. 2013. A Naturalistic Theory of Economic Organization. *J. Econ. Behav. Organ.* **90**:S45–S56. [1]
- Strier, K. B. 2011. Primate Behavioral Ecology (4th edition). Boston: Pearson. [3]
- Strumsky, D., and J. Lobo. 2015. Identifying the Sources of Technological Novelty in the Process of Invention. *Res. Policy* **44**:1445–1461. [13]
- Suddendorf, T., and C. C. Corballis. 1997. Mental Time Travel and the Evolution of the Human Mind. *Genet. Soc. Gen. Psychol. Monogr.* **123**:133–167. [8]
- Sugden, R. 2004. The Opportunity Criterion: Consumer Sovereignty without the Assumption of Coherent Preferences. *Am. Econ. Rev.* **94**:1014–1033. [8]
- . 2007. The Value of Opportunities over Time When Preferences Are Unstable. *Soc. Choice Welfare* **29**:665–682. [8]

- Summers, L. 2013. Why Stagnation Might Prove to Be the New Normal. *Financial Times*, Dec. 15, 2013. [13]
- Sunstein, C. R. 2014. Nudges: Good and Bad. *New York Review of Books*, Oct. 23, pp. 81–81. [8]
- Surowiecki, J. 2004. *The Wisdom of Crowds*. New York: Doubleday. [5]
- Sutton, R. S., and A. G. Barto. 1981. Toward a Modern Theory of Adaptive Networks: Expectation and Prediction. *Psychol. Rev.* **88**:135. [8]
- . 1998. *Reinforcement Learning: An Introduction*. Cambridge, MA: MIT Press. [16]
- Swann, W. B., J. Jetten, A. Gomez, H. Whitehouse, and B. Bastian. 2012. When Group Membership Gets Personal: A Theory of Identity Fusion. *Psychol. Rev.* **119**:441–456. [12]
- Swenson, K. D. 2010. *Mastering the Unpredictable: How Adaptive Case Management Will Revolutionize the Way That Knowledge Workers Get Things Done*. Tampa: Meghan-Kiffer Press. [1]
- Swenson, W., J. Arendt, and D. S. Wilson. 2000a. Artificial Selection of Microbial Ecosystems for 3-Chloroaniline Biodegradation. *Environ. Microbiol.* **2**:564–571. [3]
- Swenson, W., D. S. Wilson, and R. Elias. 2000b. Artificial Ecosystem Selection. *PNAS* **97**:9110–9114. [3]
- Symmonds, M., J. J. Emmanuel, M. E. Drew, R. L. Batterham, and R. J. Dolan. 2010. Metabolic State Alters Economic Decision Making under Risk in Humans. *PLoS One* **5**:e11090. [6, 16]
- Tabellini, G. 2008. Institutions and Culture. *J. Eur. Econ. Assoc.* **6**:255–294. [9]
- . 2010. Culture and Institutions: Economic Development in the Regions of Europe. *J. Eur. Econ. Assoc.* **8**:677–716. [9]
- Taber, C. S., and M. Lodge. 2006. Motivated Skepticism in the Evaluation of Political Beliefs. *Am. J. Polit. Sci.* **50**:755–769. [16]
- Tainter, J. A. 1988. *The Collapse of Ancient Societies*. Cambridge: Cambridge Univ. Press. [13]
- . 2000. Global Change, History, and Sustainability. In: *The Way the Wind Blows: Climate, History, and Human Action*, ed. R. J. McIntosh et al., pp. 331–356. New York: Columbia Univ. Press. [13]
- Tainter, J. A., and C. Crumley. 2007. Climate, Complexity and Problem Solving in the Roman Empire. In: *Sustainability or Collapse? An Integrated History and Future of People on Earth*, ed. R. Costanza et al., pp. 61–76, Dahlem Workshop Reports, vol. 96, J. Lupp, series ed. Cambridge, MA: MIT Press. [13]
- Thaler, R. H., and C. R. Sunstein. 2008. *Nudge: Improving Decisions About Health, Wealth, and Happiness*. New Haven: Yale Univ. Press. [8]
- The Economist. 2010. Picking Winners, Saving Losers: The Global Revival of Industrial Policy. *The Economist*, Aug. 5, 2010. [14]
- Thelen, K. 1999. Historical Institutionalism in Comparative Politics. *Annu. Rev. Polit. Sci.* **2**:369–404. [10]
- Thomason, S. G. 2001. *Language Contact*. Edinburgh: Edinburgh Univ. Press. [8]
- Tinbergen, N. 1963. On Aims and Methods in Ethology. *Z. Tierpsychol.* **20**:410–433. [8, 12]
- Tobler, P. N., C. D. Fiorillo, and W. Schultz. 2005. Adaptive Coding of Reward Value by Dopamine Neurons. *Science* **307**:1642–1645. [6]
- Tollhurst, D. J., J. A. Movshon, and A. F. Dean. 1983. The Statistical Reliability of Signals in Single Neurons in Cat and Monkey Visual Cortex. *Vision Res.* **23**:775–785. [6]

- Tolstoy, L. 1869. *War and Peace* (1998 ed.). Oxford: Oxford Univ. Press. [16]
- Tooby, J., and L. Cosmides. 1992. The Psychological Foundations of Culture. In: *The Adapted Mind: Evolutionary Psychology and the Generation of Culture*, ed. J. Barkow et al., pp. 19–136. New York: Oxford Univ. Press. [8]
- Torney, C. J., T. Lorenzi, I. D. Couzin, and S. A. Levin. 2015. Information Processing and the Evolution of Unresponsiveness in Collective Systems. *J. R. Soc. Interface* **12**:20140893. [5]
- Trivers, R. 1971. The Evolution of Reciprocal Altruism. *Q. Rev. Biol.* **46**:35–57. [7]
- . 2000. The Elements of a Scientific Theory of Self-Deception. *Ann. NY Acad. Sci.* **907**:114–131. [8]
- Tullock, G., A. Seldon, and G. L. Brady. 2002. *Government Failure: A Primer in Public Choice*. Washington, D. C.: Cato Institute. [14]
- Tulving, E. 2001. Episodic Memory and Common Sense: How Far Apart? *Phil. Trans. R. Soc. B* **356**:1505–1515. [8]
- Tuomela, R. 1995. *The Importance of Us: A Philosophical Study of Basic Social Notions*. Stanford: Stanford Univ. Press. [7]
- Turchin, P. 2005. *War and Peace and War*. Upper Saddle River, NJ: Pi Press. [3, 18]
- . 2010. Warfare and the Evolution of Social Complexity: A Multilevel Selection Approach. *Struc. Dyn.* **4**:1–37. [1, 3, 18]
- Turchin, P., T. Brennan, T. E. Currie, et al. 2015. Seshat: The Global History Databank. *Cliodynamics: J. Quant. Hist.* **6**:77–107. [12]
- Turchin, P., T. E. Currie, E. A. L. Turner, and S. Gavrilits. 2013. War, Space, and the Evolution of Old World Complex Societies. *PNAS* **110**:16384–16389. [12]
- Tusche, A., S. Bode, and J. D. Haynes. 2010. Neural Responses to Unattended Products Predict Later Consumer Choices. *J. Neurosci.* **30**:8024–8031. [6]
- Uffink, J. 2007. Compendium to the Foundations of Classical Statistical Physics. In: *Handbook for the Philosophy of Physics*, ed. J. Butterfield and J. Earman, pp. 924–1074. Amsterdam: Elsevier. [5]
- Unruh, G. C. 2002. Escaping Carbon Lock-In. *Energy Policy* **30**:317–325. [18]
- U.S. Bureau of Labor Statistics. 2006. *100 Years of U.S. Consumer Spending Data for the Nation, New York City, and Boston*. Washington, D.C.: U.S. Dept. of Labor. [8].
- Usher, M., and J. L. McClelland. 2001. The Time Course of Perceptual Choice: The Leaky, Competing Accumulator Model. *Psychol. Rev.* **108**:550–592. [6]
- Uzawa, H. 1960. Preference and Rational Choice in the Theory of Consumption. In: *Mathematical Methods in the Social Sciences*, ed. K. J. Arrow et al., pp. 129–148. Stanford: Stanford Univ. Press. [8]
- van den Bergh, J. C. J. M. 2008. Optimal Diversity: Increasing Returns versus Recombinant Innovation. *J. Econ. Behav. Organ.* **68**:565–580. [18]
- . 2012. Effective Climate-Energy Solutions, Escape Routes and Peak Oil. *Energy Policy* **46**:530–536. [18]
- van den Bergh, J. C. J. M., A. Faber, A. M. Idenburg, and F. H. Oosterhuis. 2007. *Evolutionary Economics and Environmental Policy: Survival of the Greenest*. Cheltenham: Edward Elgar. [18]
- van den Bergh, J. C. J. M., and J. Gowdy. 2009. A Group Selection Perspective on Economic Behavior, Institutions and Organizations. *J. Econ. Behav. Organ.* **72**:1–20. [18]
- van den Bergh, J. C. J. M., and G. Kallis. 2013. A Survey of Evolutionary Policy: Normative and Positive Dimensions. *J. Bioecon.* **15**:281–303. [18]

- van der Leeuw, S. E., ed. 1998. *The Archaeomedes Project: Understanding the Natural and Anthropogenic Causes of Land Degradation and Desertification in the Mediterranean Basin*. Luxembourg: Office of Official Publications of the European Commission. [18]
- . 2000. Land Degradation as a Socio-Natural Process. In: *The Way the Wind Blows: Climate, History and Human Action*, ed. R. J. McIntosh et al., pp. 364–393. New York: Columbia Univ. Press. [13]
- . 2007. Information Processing and Its Role in the Rise of the European World System. In: *Sustainability or Collapse? An Integrated History and Future of People on Earth*, ed. R. Costanza et al., pp. 213–241, Dahlem Workshop Reports, vol. 96, J. Lupp, series ed. Cambridge, MA: MIT Press. [13]
- . 2012. Global Systems Dynamics and Policy: Lessons from the Distant Past. *Complex. Econ.* 1:33–60. [13]
- van der Leeuw, S. E., and H. J. M. de Vries. 2002. Empire: The Romans in the Mediterranean. In: *Mappae Mundi: Humans and Their Habitats in a Long-Term Socio-Ecological Perspective*, ed. H. J. M. de Vries and J. Goudsblom, pp. 209–256. Amsterdam: Amsterdam Univ. Press. [13]
- van der Leeuw, S. E., and S. Green. 2004. Vegetation Dynamics and Land Use in Epirus. In: *Dynamics in Mediterranean Vegetation Landscapes*, ed. S. Mazzoleni et al., pp. 121–141. London: Wiley. [13]
- van der Leeuw, S. E., and Y. Zhang. 2014. Are We Part of the Solution or Part of the Problem? Working Paper 14-11-044: Santa Fe Institute. [13]
- Veblen, T. 1898/1998. Why Is Economics Not an Evolutionary Science? *E:CO* 12:41–69. [5, 18]
- . 1899/2013. *Theory of the Leisure Class*. New York: Start Publishing LLC. [12]
- Vermeule, A. 2011. *The System of the Constitution*. Oxford: Oxford Univ. Press. [10]
- Vinković, D., and A. Kirman. 2006. A Physical Analogue of the Schelling Model. *PNAS* 103:19261–19265. [2]
- Von Neumann, J., and O. Morgenstern. 1944. *Theory of Games and Economic Behavior* (1st edition). Princeton: Princeton Univ. Press. [16]
- . 1947. *Theory of Games and Economic Behavior* (2nd edition). Princeton: Princeton Univ. Press. [16]
- Wagner, A. R., and R. A. Rescorla. 1972. Inhibition in Pavlovian Conditioning: Application of a Theory. In: *Inhibition and Learning*, ed. R. A. Boakes and M. S. Halliday, pp. 301–336. London: Academic Press. [8]
- Waldfoegel, J. 1993. The Deadweight Loss of Christmas. *Am. Econ. Rev.* 83:1328–1336. [8]
- . 2002. Gifts, Cash, and Stigma. *Econ. Inq.* 40:415–427. [8]
- Walker, B., C. S. Holling, S. R. Carpenter, and A. Kinzig. 2004. Resilience, Adaptability and Transformability in Social–Ecological Systems. *Ecol. Soc.* 9:5. [10]
- Wallerstein, I. 1974. *The Modern World-System I: Capitalist Agriculture and the Origins of the European World-Economy in the Sixteenth Century*. New York: Academic Press. [13]
- Wallis, J. J. 2005. Constitutions, Corporations, and Corruption: American States and Constitutional Change, 1842 to 1852. *J. Econ. History* 65:211–256. [12]
- . 2006. The Concept of Systematic Corruption in American History. In: *Corruption and Reform*, ed. C. Goldin and E. Glaeser, pp. 23–62. Chicago: Univ. of Chicago Press. [12]
- Wallman, S. 1986. *Ethnicity and the Boundary Process*, ed. J. Rex and D. Mason. Cambridge: Cambridge Univ. Press. [8]

- Walras, L. 1954. *Elements of Pure Economics; or, the Theory of Social Wealth*. American Economic Association Translation Series. Homewood, IL: Richard D. Irwin. [6]
- Waring, T. M. 2010. New Evolutionary Foundations: Theoretical Requirements for a Science of Sustainability. *Ecol. Econ.* **69**:718–730. [12]
- Waring, T. M., M. A. Kline, J. S. Brooks, et al. 2015. A Multi-Level Evolutionary Framework for Sustainability Analysis. *Ecol. Soc.* **20**:34. [18]
- Watson, J. D., and F. H. C. Crick. 1953. A Structure for Deoxyribose Nucleic Acid. *Nature* **171**:737–738. [4]
- Watts, D. 1999. *Small Worlds: The Dynamics of Networks between Order and Randomness*. Princeton: Princeton Univ. Press. [11]
- . 2004. The New Science of Networks. *Am. Sociol. Rev.* **30**:243–270. [9]
- Webb, R., P. Glimcher, and K. Louie. 2014. Rationalizing Context-Dependent Preferences: Divisive Normalization and Neurobiological Constraints on Choice. *SSRN Library* 2462895. [8]
- Weber, M. 1905. *The Protestant Ethic and the Spirit of Capitalism*. Oxford: Oxford Univ. Press. [9, 11]
- Webley, P., C. B. Burgoyne, S. E. G. Lea, and B. M. Young. 2001. *The Economic Psychology of Everyday Life*. Hove, UK: Psychology Press. [8]
- Wegner, G. 1997. Policy from an Evolutionary Perspective: A New Approach. *J. Instit. Theor. Econ.* **153**:485–509. [18]
- Weierich, M. R., C. I. Wright, A. Negreira, B. C. Dickerson, and L. F. Barrett. 2010. Novelty as a Dimension of the Affective Brain. *NeuroImage* **49**:2871–2878. [16]
- Weingast, B. R. 1995. The Economic Role of Political Institutions: Market-Preserving Federalism and Economic Development. *J. Law Econ. Organ.* **11**:1–131. [10]
- Weir, N. 2014. Government R&D Hit by Disproportionate Cuts, Again. *Campaign for Science and Engineering (CaSE)* <http://sciencecampaign.org.uk/?p=13593>. (accessed Mar. 10, 2016). [14]
- Weitzman, M. L. 1998. Recombinant Growth. *Q. J. Econ.* **113**:331–360. [5]
- West-Eberhard, M. J. 2003. *Developmental Plasticity and Evolution*. Oxford: Oxford Univ. Press. [3]
- Whitehouse, H., K. Kahn, M. E. Hochberg, and J. J. Bryson. 2012a. From the Imaginary to the Real: The Back and Forth between Reality and Simulation. *Religion Brain Behav.* **2**:219–224. [16]
- . 2012b. The Role for Simulations in Theory Construction for the Social Sciences: Case Studies Concerning Divergent Modes of Religiosity. *Religion Brain Behav.* **2**:182–201. [16]
- Williams, G. C. 1966. *Adaptation and Natural Selection: A Critique of Some Current Evolutionary Thought*. Princeton: Princeton Univ. Press. [3, 18]
- Williamson, O. E. 1975. *Markets and Hierarchies*. New York: The Free Press. [11]
- . 1985. *The Economic Institutions of Capitalism*. New York: Simon and Schuster. [10]
- Wills, A. J., S. E. G. Lea, L. A. Leaver, et al. 2009. A Comparative Analysis of the Categorization of Multidimensional Stimuli. I. Unidimensional Classification Does Not Necessarily Imply Analytic Processing; Evidence from Pigeons (*Columba livia*), Squirrels (*Sciurus carolinensis*), and Humans (*Homo sapiens*). *J. Comp. Psychol.* **123**:391–405. [8]
- Wilson, D. S. 1992. Complex Interactions in Metacommunities, with Implications for Biodiversity and Higher Levels of Selection. *Ecology* **73**:1984–2000. [3]

- . 2002. *Darwin's Cathedral, Evolution, Religion, and the Nature of Society*. Chicago: Univ. of Chicago Press. [4]
- . 2005. Natural Selection and Complex Systems: A Complex Interaction. In: *Self-Organization and Evolution of Biological and Social Systems*, ed. H. Hemelrijk, pp. 151–165. Cambridge: Cambridge Univ. Press. [3]
- . 2012. A Tale of Two Classics. *New Sci.* **213**:30–31. [8]
- . 2015. *Does Altruism Exist? Culture, Genes, and the Welfare of Others*. New Haven: Yale Univ. Press. [3, 18]
- Wilson, D. S., and J. Gowdy. 2013. Evolution as a General Theoretical Framework for Economics and Public Policy. *J. Econ. Behav. Organ.* **90**:S3–S10. [8, 12, 18]
- . 2015. Human Ultrasociality and the Invisible Hand: Foundational Developments in Evolutionary Science Alter a Foundational Concept in Economics. *J. Bioecon.* **17**:37–52. [3, 18]
- Wilson, D. S., S. C. Hayes, A. Biglan, and D. Embry. 2014. Evolving the Future: Toward a Science of Intentional Change. *Behav. Brain Sci.* **37**:395–460. [3]
- Wilson, D. S., E. Ostrom, and M. E. Cox. 2013. Generalizing the Core Design Principles for the Efficacy of Groups. *J. Econ. Behav. Organ.* **90**:S21–S32. [12, 18]
- Wilson, D. S., and E. O. Wilson. 2007. Rethinking the Theoretical Foundation of Sociobiology. *Q. Rev. Biol.* **82**:327–348. [3, 18]
- Wilson, W. J. 1987. *The Truly Disadvantaged*. Chicago: Univ. of Chicago Press. [2]
- Witt, U. 2003. Economic Policy Making in Evolutionary Perspective. *J. Evol. Econ.* **13**:77–94. [18]
- . 2008. Evolutionary Economics and Psychology. In: *The Cambridge Handbook of Psychology and Economic Behavior*, ed. A. Lewis, pp. 493–511. Cambridge: Cambridge Univ. Press. [8]
- . 2011. The Dynamics of Consumer Behavior and the Transition to Sustainable Consumption Patterns. *Environ. Innov. Soc. Transit.* **1**:109–114. [8]
- Witt, U., and G. Schwesinger. 2013. Phylogenetic Footprints in Organizational Behavior. *J. Econ. Behav. Organ.* **90**:S33–S44. [1]
- Wittgenstein, L. 1953. *Philosophical Investigations*. New York: Macmillan. [11]
- Wolf, C. 1988. *Markets or Governments: Choosing between Imperfect Alternatives*. Cambridge, MA: MIT Press. [14]
- Wong, S. 2006. *Foundations of Paul Samuelson's Revealed Preference Theory* (revised edition): A Study by the Method of Rational Reconstruction. New York: Routledge. [8]
- Wood, R. W. 2012. Fallen Solyndra Won Bankruptcy Battle but Faces Tax War. *Forbes*, Nov. 6, 2012. [14]
- Woodford, M. 1990. Learning to Believe in Sunspots. *Econometrica* **58**:277–307. [1]
- Wright, H. T. 1977. Recent Research on Origin of State. *Annu. Rev. Anthropol.* **6**:379–397. [12]
- Wunderli, R. 1992. *Peasant Fires: The Drummer of Niklashausen*. Bloomington: Indiana Univ. Press. [13]
- Wurzer, G., K. Kowarik, and H. Reschreiter, eds. 2015. *Agent-Based Modeling and Simulation in Archaeology*. Cham: Springer Intl. Publ. Switzerland. [16]
- Young, H. P. 1993. The Evolution of Conventions. *Econometrica* **61**:57–84. [16]
- Zajonc, R. B. 1980. Feeling and Thinking: Preferences Need No Inferences. *Am. Psychol.* **35**:151–175. [7]
- Zeppini, P., and J. C. J. M. van den Bergh. 2011. Competing Recombinant Technologies for Environmental Innovation: Extending Arthur's Model of Lock-In. *Industr. Innov. Technol.* **18**:317–334. [18]

- Zhang, T., and G. Linb. 2007. A Decomposition of Moran's I for Clustering Detection. *Comput. Stat. Data Anal.* **51**:6123–6137. [16]
- Zhang, Y. 2014. Climate Change and Green Growth: A Perspective of the Division of Labor. *China & World Economy* **22**:93–226. [13]
- Zhang, Y., and H.-L. Shi. 2013. From Burden-Sharing to Opportunity-Sharing: Unlocking the Climate Negotiations. *Climate Policy* **14**:63–81. [13]
- Zillmann, D., J. Bryant, J. R. Cantor, and K. D. Day. 1975. Irrelevance of Mitigating Circumstances in Retaliatory Behavior at High Levels of Excitation. *J. Res. Pers.* **9**:282–293. [16]