

CURRICULUM VITAE

ROBERT BOYD

Born: February 11, 1948
San Francisco CA

Address: School of Human Evolution and Social Change
Arizona State University
Tempe, AZ 85287

Email: robert.t.boyd@gmail.com

Homepage: <http://robboyd.abcs.asu.edu/>

Education:

1970 B.A. in Physics with high honors, University of California at San Diego.

1975 Ph.D. in Ecology, University of California at Davis

Employment:

August 2012–present, Origins Professor, School of Human Evolution and Social Change, Arizona State University, Phoenix

June 2011–June 2014 Cowan Professor, Santa Fe Institute

July 2009–July 2012, Distinguished Professor, Department of Anthropology, University of California, Los Angeles.

July 1989–July 2009, Professor, Department of Anthropology, University of California, Los Angeles.

July 1988–June 1989, Associate Professor, Department of Anthropology, University of California, Los Angeles.

July 1986–June 1988, Assistant Professor, Department of Anthropology, University of California, Los Angeles.

September 1984–July 1986: Assistant Professor, Department of Anthropology, Emory University.

September 1980–August 1984: Assistant Professor, School of Forestry and Environmental Studies, Duke University (on leave 1981-1982).

June 1981–June 1982: National Science Foundation postdoctoral fellow, Department of Biology, University of Chicago.

September 1978–August 1980: Assistant Research Ecologist, Institute of Ecology, University of California, Davis.

September 1976– September 1978: Special Consultant, California State Energy Commission

December 1975–August 1976: Senior Consultant, California Assembly Committee on Resources, Land Use, and Energy.

Professional Activities:

November 2015–present: Scientific Council, Institute for Advanced Study, Toulouse.

March 2015–present: Scientific Advisory Board, Canadian Institute for Advanced Research, Program on Institutions, Organizations & Growth

November 2013–present: Scientific Advisory Board, Max Planck Institute for Evolutionary Anthropology, Leipzig

January 2013–Present: Scientific Advisory Board, Ernst Strungmann Forum

January 1997–Present: Associate Editor for *Evolution and Human Behavior*

January 2008–Jan 2011: *Board Member, Proceedings of the Royal Society, Series B*

March 1997–2008: Co-director, MacArthur Foundation Preferences Project.

September 1988–Present: Member of editorial board of *Quantitative Anthropology*

November 1989–Present: Associate Editor for *Journal of Economic Behavior and Organization*

June 1987–Present: Member of the editorial board of University of California Publications in Anthropology

Awards and Honors:

- 2016 Tanner Lectures, Princeton University
- 2009–present External Faculty, Santa Fe Institute
- 2005–06 Leverhulme Visiting Professor, University of Cambridge
- 2001–02 Invited fellow at the Wissenschaftskolleg zu Berlin
- 1991–92 Invited fellow at the Zentrum für interdisziplinäre Forschung, University of Bielefeld
- 1988–89 John Simon Guggenheim Fellowship
- 1989 J. I. Staley Prize for *Culture and the Evolutionary Process*.
- 1981-82 NSF Postdoctoral Fellowship, University of Chicago

Publications:

Books

- R. Boyd, in press, R. *A Different Kind of Animal*, Princeton University Press, publication date October, 2017
- McElreath and R. Boyd, 2007. *Mathematical Models of Social Evolution: A guide for the perplexed*, University of Chicago Press, Chicago.
- P. J. Richerson and R. Boyd, 2005, *Not by Genes Alone: How culture transformed human evolution*, University of Chicago Press, Chicago, IL. (Translated into Korean and Italian)
- R. Boyd, and P. J. Richerson, 2005. *The Origin and Evolution of Cultures*, Oxford University Press, New York
- J. Henrich, R. Boyd, S. Bowles, C. Camerer, E. Fehr, & H. Gintis. 2004. *The Foundations of Human Sociality: Economic experiments and ethnographic evidence from fifteen small-scale societies*, Oxford University Press, New York
- H. Gintis, S. Bowles, E. Fehr, & R. Boyd 2004. *Moral Sentiments and Material Interests: The foundations of cooperation in economic life*, MIT Press Cambridge
- R. Boyd and J. B. Silk, 1997, *How Humans Evolved*, W. W. Norton, Co. NY. (7th edition was published in October 2014)

R. Boyd, and P. J. Richerson, 1985, *Culture and the Evolutionary Process*, University of Chicago Press, Chicago, IL.

Journal Articles

M. Derex and R. Boyd, Partial connectivity increases cultural accumulation within groups, *Proceedings of the National Academy of Sciences (USA)*, 113, 2982-2987, 2016.

R.H. Schonmann and R. Boyd, A simple rule for the evolution of contingent cooperation in large groups, *Philosophical Transactions of the Royal Society (B)*, 317, DOI: 10.1098/rstb.2015.0099, 2016

J. Henrich, M. Chudek and R. Boyd, The Big Man Mechanism: how prestige fosters cooperation and creates prosocial leaders, *Philosophical Transactions of the Royal Society (B)*, DOI: 10.1098/rstb.2015.0013, 2015.

C. Moya and R. Boyd, Different selection pressures give rise to distinct ethnic phenomena: A functionalist framework with illustrations from the Peruvian Altiplano. *Human Nature*, 26(1). doi:10.1007/s12110-015-9224-9, 2015.

C. Moya, R. Boyd, and J. Henrich. Reasoning about cultural and genetic transmission: Developmental and cross-cultural evidence from Peru, Fiji, and the United States on how people make inferences about trait transmission, *Topics in Cognitive Science*, 7, 1-16, 2015.

R. Boyd and S. Mathew. Third-party monitoring and sanctions aid the evolution of language, *Evolution and Human Behavior*, 36, 475-479, 2015.

R. Boyd, R. H. Schonmann and R. Vicente, Hunter–Gatherer population structure and the evolution of contingent cooperation, *Evolution and Human Behavior*, 35, 219–227, 2014.

K. Hill, B. M. Wood, J. Baggio, A. M. Hurtado, R. Boyd, Hunter-Gatherer Inter-Band Interaction Rates: Implications for Cumulative Culture, *PLoS One*, 9, 1-9, 2014.

S. Mathew and R. Boyd, The cost of cowardice. *Evolution and Human Behavior*, 35, 58–64. 2014

R. Boyd, P. J. Richerson and J. Henrich, The cultural evolution of technology, facts and theories, *Cultural Evolution, Society, Technology, Science and Religion*, M. Christiansen and P.J. Richerson, eds., MIT Press, 119–142, 2013

M. Kline, R. Boyd, and J. Henrich, Teaching and the life history of cultural transmission in Fijian villages, *Human Nature*, 24, 351–374, 2013.

C. Perrault, C. Moya, and R. Boyd, A Bayesian approach to the evolution of social learning, *Evolution and Human Behavior*, 33:449–459, 2013.

- J. Henrich, R. Boyd, and P. J. Richerson, The puzzle of monogamous marriage, *Philosophical Transactions of the Royal Society (B)*, 367: 657–669, 2012.
- R. Boyd, P. J. Richerson, and J. Henrich. The cultural niche: Why social learning is essential for human adaptation, *Proceedings of the National Academy of Sciences (USA)* 108: 10918–10925, 2011
- Mathew, S. and R. Boyd. Punishment sustains large-scale cooperation in prestate warfare. *Proceedings of the National Academy of Sciences (USA)* 108: 11375–11380, 2011.
- Boyd, R., P. J. Richerson, and J. Henrich. Rapid cultural adaptation can facilitate the evolution of large-scale cooperation, *Behavioral Ecology and Sociobiology*, 65, 431–444, 2011.
- Boyd, R. and P. J. Richerson, Transmission coupling mechanisms: cultural group selection. *Philosophical Transactions of the Royal Society (B)*, 365, 3787–3795, 2010.
- Kline, M. and R. Boyd, Population size predicts technological complexity in Oceania, *Proceedings of the Royal Society (B)*, 277, 2559–2564, 2010.
- Richerson, P. J., R. Boyd, and J. Henrich, Gene-culture coevolution in the age of genomics, *Proceedings of the National Academy of Sciences (USA)*. 107, 8985–8992, 2010.
- Boyd, R., H. Gintis, and S. Bowles, Coordinated punishment of defectors sustains cooperation and can proliferate when rare, *Science*, 328, 617–620, 2010.
- Rendell, L., R. Boyd, D. Cownden, M. Enquist, K. Eriksson, M. W. Feldman, L. Fogarty, S. Ghirlanda, T. Lillicrap, and K. N. Laland, Why copy others? Insights from the social learning strategies tournament, *Science*, 328, 208–213, 2010.
- R. Boyd and P. J. Richerson, Culture and the evolution of human cooperation, *Philosophical Transactions of the Royal Society (B)*, 364:3281–3288, 2009.
- Richerson, P. J, R. Boyd, and R.L. Bettinger, Cultural Innovations and Demographic Change, *Human Biology*, 81, 211–235, 2009.
- Boyd, R. and P. J. Richerson, Voting with your feet: Payoff biased migration and the evolution of group beneficial behavior, *Journal of Theoretical Biology*, 257: 331–339, 2009.

- J. Henrich and R. Boyd, Division of Labor, Economic Specialization and the Evolution of Social Stratification, *Current Anthropology*, 49: 715–724, 2008.
- J. Henrich, R. Boyd, and P. J. Richerson. Five Misunderstandings about Cultural Evolution. *Human Nature*, 19: 119–137, 2008.
- S. Le and R. Boyd, Evolutionary Dynamics of the Continuous Iterated Prisoner's Dilemma, *Journal of Theoretical Biology*, Volume 245, 258–267, 2007.
- J. Henrich, R. Boyd, S. Bowles, C. Camerer, E. Fehr, H. Gintis, R. McElreath, M. Alvard, A. Barr, J. Ensminger, K. Hill, F. Gil-White, M. Gurven, F. Marlowe, J. Q. Patton, N. Smith, and D. Tracer, 'Economic Man' in Cross-cultural Perspective: Behavioral Experiments in 15 Small-scale Societies, *Behavioral and Brain Sciences*, 28: 795–855, 2005
- K. Panchanathan and R. Boyd. Indirect reciprocity can stabilize cooperation without the second-order free rider problem. *Nature* 432: 499–502, 2004.
- H. Gintis, S. Bowles, R. Boyd, & E. Fehr, Explaining Altruistic Behavior in Humans, *Evolution and Human Behavior*, 24: 153–172, 2003
- R. McElreath, R. Boyd and P. J. Richerson. Shared Norms Can Lead to the Evolution of Ethnic Markers. *Current Anthropology*, 44: 122–130, 2003.
- K. Panchanathan and R. Boyd. A Tale of Two Defectors: The Importance of Standing for the Evolution of Indirect Reciprocity. *Journal of Theoretical Biology*, 224:115–126, 2003.
- R. Boyd, H. Gintis, S. Bowles, and P. J. Richerson. The Evolution of Altruistic Punishment. *Proceedings of the National Academy of Sciences (USA)* 100: 3531–3535, 2003.
- J. Henrich and R. Boyd, On Modeling Cognition and Culture: Why cultural evolution does not require replication of representations, *The Journal of Cognition and Culture*, 2: 87–112, 2002.
- R. Boyd and P. J. Richerson, Group Beneficial Norms Spread Rapidly in a Structured Population, *Journal of Theoretical Biology*, 215: 287–296, 2002.
- P. J. Richerson and R. Boyd. Built for Speed, Not for Comfort, Darwinian Theory and Human Culture, *History and Philosophy of the Life Sciences*, 23: 425–465, 2001.
- J. Henrich, R. Boyd, S. Bowles, C. Camerer E. Fehr, H. Gintis, and R. McElreath Cooperation,

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- P. J. Richerson, R. Boyd, and R. L. Bettinger Was Agriculture Impossible During the Pleistocene but Mandatory during the Holocene? A Climate Change Hypothesis, *American Antiquity* 66: 387–411, 2001
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- J. Henrich and R. Boyd. The Evolution of Conformist Transmission and the Emergence of Between-Group Differences. *Evolution and Human Behavior* 19: 215–242, 1998.
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- J. Soltis, R. Boyd, and P.J. Richerson, Can group functional behaviors evolve by cultural group selection? An empirical test. *Current Anthropology*. 36: 473–494, 1995.
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- R. Boyd and P.J. Richerson, The Evolution of Norms, An Anthropological View. the *Journal of Institutional and Theoretical Economics*, 150: 72–87, 1994.
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- sizable groups. *Ethology and Sociobiology*, 13: 171-195, 1992.
- Richerson, Peter J. and Robert Boyd. Fets per la Velocitat, No Per al Confort: la Teoria Darwiniana i la Cultura Humana. In *Poblacions, Societats i Entorn*, Taula de Disseny, Jordi Perera Garcia, and Josep Pujol Mas (eds). Estudios Insitut D'Humanitats, Club de Barcelona, Barcanova, Barcelona, Spain, pp. 58-101, 1991.
- R. Boyd and P. J. Richerson, Group Selection Among Alternative Evolutionarily Stable Strategies. *Journal of Theoretical Biology*, 145: 331-342, 1990.
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- R. Boyd, Mistakes Allow Evolutionary Stability in the Repeated Prisoner's Dilemma Game. *Journal of Theoretical Biology*, 136: 47-56, 1989.
- R. Boyd and P.J. Richerson, The Role of Evolved Predispositions in Cultural Evolution. *Ethology and Sociobiology*, 10: 195-219, 1989.
- R. Boyd and P.J. Richerson, The Evolution Reciprocity in Sizable Groups. *Journal of Theoretical Biology*, 132: 337-356, 1988.
- R. Boyd, Is the Repeated Prisoner's Dilemma Game a Good Model of Reciprocal Altruism? *Ethology and Sociobiology*, 9: 211-221, 1988.
- R. Boyd and J. Lorberbaum, No Pure Strategy Is Evolutionarily Stable in the Repeated Prisoner's Dilemma Game. *Nature*. 327: 58-59, 1987.
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- P.J. Richerson and R. Boyd, The Natural Selection of Culture. *BioScience*, 34: 430-434, 1984.
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- R. Boyd and P.J. Richerson, Cultural Inheritance and the Evolution of Cooperative behavior. *Human Ecology*, 10: 325-352, 1982.
- R. Boyd, and P.J. Richerson, Effect of Phenotypic Variation on Kin Selection. *Proceedings of the National Academy of Sciences U.S.A.* 77: 7506-7509, 1980.
- R. Boyd, and P.J. Richerson, Sociobiology, Culture, and Economic Theory. *Journal of Economic Behavior and Organization*. 1: 97-121, 1980.
- R. Boyd, and R. Thompson, The Effects of Uncertainty on the Relative Economics of Electrical Generation Technologies with Differing Lead Times. *Energy Systems and Policy* 4: 9-124, 1980.
- R. T. Laird, J. B. Perkins, D. A. Bainbridge, J. B. Baker, R. T. Boyd, D. Huntsman, P. E. Staub, and M. Zucker, Quantitative Land Capability Analysis--A Method of Applying Earth Science Information to Planning and Decision Making. United States Geological Survey Professional Paper No. 945, contributing author.
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- P. J. Richerson, and R. Boyd, A Simple Dual Inheritance Model of the Conflict Between Social and Biological Evolution. *Zygon* 11: 254-262, 1976.
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Book Chapters

- Mathew, S., R. Boyd, and M. van Veelen. Human cooperation among kin and close associates may require enforcement of norms by third parties. In: *Cultural Evolution*, ed. P. J. Richerson and M. Christiansen. Strüngmann Forum Report 12, series editor J. Lupp, Cambridge, MA: MIT Press, pp 45-60, 2013
- R. Boyd, P. J. Richerson, and J. Henrich The cultural evolution of technology: Facts and theories. In: *Cultural Evolution*, ed. P. J. Richerson and M. Christiansen. Strüngmann Forum Report 12, series editor J. Lupp, Cambridge, MA: MIT Press, pp 119-142, 2013
- A. Mesoudi, K. N. Laland, R. Boyd, B. Buchanan, E. Flynn, R. N. McCauley, J. Renn, V. Reyes-García, S. Shennan, D. Stout, and C. Tennie, The Cultural evolution of technology and science, In: *Cultural Evolution*, ed. P. J. Richerson and M. Christiansen. Strüngmann Forum Report 12, series editor J. Lupp, Cambridge, MA: MIT Press, pp. 193-216, 2013
- P. Hammerstein and R. Boyd, Learning, Cognitive Limitations and the Modeling of Social Behavior, *Evolution and the Mechanisms of Decision Making*, P. Hammerstein and J. Stevens, eds. MIT Press, Cambridge MA, 2012.
- T. Bugnyar, R. Boyd, B. Bossan, S. Gächter, T. Griffiths, P. Hammerstein, K. Jensen, T. Mussweiler, R. Nagel, and F. Warneken, Evolutionary Perspectives on Social Cognition, *Evolution and the Mechanisms of Decision Making*, P. Hammerstein and J. Stevens, eds. MIT Press, Cambridge MA, 2012.
- P. J. Richerson and R. Boyd, Cultural Evolution, Accomplishments and Prospects, In: *Explaining Culture Scientifically*, Melissa Brown, ed., University of Washington Press, Seattle, 2008.
- P. J. Richerson and R. Boyd, The Evolution of Free Enterprise values. In *Moral Markets: The Critical Role of Values in the Economy*, edited by Paul Zak. Princeton University Press. Pp. 107-141. 2008.
- R. McElreath, R. Boyd, G. Gigerenzer, A. Glockner, P. Hammerstein, R. Kurzban, S. Magen, P. J. Richerson, A. Robson, and J. R. Stevens. Individual Decision Making and the Evolutionary Roots of Institutions, In: *Better than Conscious? Decision Making, the Human Mind, and Implications for Institutions*. C. Engel and W. Singer eds, MIT Press, Cambridge. Pp 305-324, 2008.
- R. Boyd and P. J. Richerson. Gene-Culture Coevolution and the Evolution of Social Institutions, In: *Better than Conscious? Decision Making, the Human Mind, and Implications for Institutions*. C. Engel and W. Singer eds, MIT Press, Cambridge. Pp 305-324, 2008.
- R. Boyd and P. J. Richerson, Cultural Adaptation and Maladaptation: Of kayaks and commissars. *Evolution of Mind, Fundamental Questions and Controversies*, S. Gangestad and J. Simpson, eds. Guilford Press, NY, 2007, pp 327–321.

- R. Boyd and P. J. Richerson, Group selection: A tale of two controversies, *Evolution of Mind, Fundamental Questions and Controversies*, S. Gangestad and J. Simpson, eds. Guilford Press, NY, 2007, pp 221–225.
- L. Newson, P. J. Richerson and R. Boyd. Cultural evolution and the shaping of cultural diversity. *Handbook of Culture Psychology*, Dov Cohen and Shinobu Kitayama, editors, New York, Guilford Press. 2007. pp 454-476.
- B. Paciotti, P. J. Richerson, and R. Boyd. Cultural Evolutionary Theory: A Synthetic Theory for Fragmented Disciplines, In *Bridging Social Psychology: The Benefits of Transdisciplinary Approaches*, Paul Van Lange, Editor. 2006, Pp 365-70..
- R. Boyd and P. J. Richerson. Culture and the evolution of the human social instincts. In: *Roots of Human Sociality: Culture, Cognition, and Interaction*. Edited by N.J. Enfield and Stephen C. Levinson. Berg. Pp. 453-477. 2006.
- P. J. Richerson, R. Boyd and R. L. Bettinger. 2005. Evolution on a Restless Planet: Were Environmental Variability and Environmental Change Major Drivers of Human Evolution? *Handbook of Evolution Vol. 2* edited by Franz M. Wuketits and Francisco J. Ayala. Pp. 223-242.
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- P. J. Richerson, R. Boyd and B. Paciotti. An Evolutionary Theory of Commons Management, *The Drama of the Commons*. Elinor Ostrom, Thomas Dietz, Nives Dolsak, Paul C. Stern, Susan Stonich, and Elke U. Weber, Eds., National Academy Press, Washington, D.C. 2002. Pp 413–413.
- P. J. Richerson and R. Boyd. The Evolution of Subjective Commitment to Groups: A Tribal Instincts Hypothesis, R.M. Nesse ed. *Evolution and the Capacity for Commitment*, Russell Sage Foundation, NY, 2001.
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Reviews and Comments

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Invited Presentations (2011-2016)

Culture Matters: How culture made humans outliers in the natural world. Two Tanner Lectures at Princeton University, April 2016.

How humans became outliers in the natural world, Political Economy Workshop, NYU, February 2016

The evolution of human uniqueness, Invited lecture at Advanced International Seminar on Cognition and Culture in Evolutionary Context at Facultad de Psicología, Universidad Complutense de Madrid, Sept 2015.

The first great divergence, Invited lecture, Canadian Institute for Advanced Research Program on Institutions, Organizations and Growth, March 2015.

The puzzles of human cooperation, Invited lecture, Department of Evolutionary Anthropology, Duke University, Feb 2015

Does reciprocity explain human cooperation? Invited lecture at NimBios, University of Tennessee, Nov 2014

Is causal understanding necessary for cultural adaptation? Economic History Colloquium, Harvard University, Department of Economics, Nov 2014

Reciprocity, Third-Party Punishment and the evolution of Human Language, Invited Plenary lecture, Collective Intentionality, Sept 2014

Reciprocity, Third-Party Punishment and the evolution of Human Language, Invited Plenary lecture, EVOLANG, Vienna, April 2014

The evolution of low Culture and Technological Progress, Invited Lecture, Kennedy School of Government, Harvard University, Oct 2013

How Culture Transformed Human Evolution, Invited Distinguished Lecture, Institute for Advanced Study, Toulouse, France Sept 2013

Population size and cultural robustness, Cowan Memorial Symposium, Santa Fe Institute, November 2012

Models of Cultural Evolution, Eight lectures at Instituto Nacional de Anthropología e Historia, Mexico DF, October 2012.

The Evolution of Normative Monogamy, Invited plenary lecture, Human Behavior and Evolution Society, June 2012.

The Puzzles of Human Cooperation, Institute for Advanced Study, Princeton, May 9, 2012.

Culture and Human Adaptation, Department of Cognitive Science, UC Berkeley, February 12, 2012.

The Cultural Niche, Hamden Sydney College, April 11, 2011.

The Cultural Niche, National Academy of Sciences Sackler Symposium In the Light of Evolution, IV, UC Irvine January 2011.