

DAVID G. RAND

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EDUCATION	2006-2009	Ph.D., Harvard University, Systems Biology
	2000-2004	B.A., Cornell University <i>summa cum laude</i> , Computational Biology
PROFESSIONAL EXPERIENCE	2016-	Associate Professor (untenured) – Psychology Department, Economics Department, School of Management, Cognitive Science Program, Institution for Social and Policy Studies, Yale Institute for Network Science, Yale University
	2013-2016	Assistant Professor – Psychology Department, Economics Department, School of Management, Cognitive Science Program, Institution for Social and Policy Studies, Yale Institute for Network Science, Yale University
	2015-	Director, Applied Cooperation Team (ACT)
	2015-2016	Visiting Scholar – Cognitive, Linguistic, and Psychological Sciences Department, Brown University
	2012-2013	Postdoctoral Fellow – Psychology Department, Harvard University
	2011	Lecturer – Human Evolutionary Biology Department, Harvard University
	2010-2012	FQEB Prize Fellow – Psychology Department, Harvard University
	2009-2013	Research Scientist – Program for Evolutionary Dynamics, Harvard University
	2009-2011	Fellow – Berkman Center for Internet & Society, Harvard University
	2006-2009	Ph.D. Student – Systems Biology, Harvard University
	2004-2006	Mathematical Modeler – Gene Network Sciences, Ithaca NY
2003-2004	Undergraduate Research Assistant – Psychology, Cornell University	
2002-2004	Undergraduate Research Assistant – Plant Biology, Cornell University	

SELECTED PUBLICATIONS

[*Equal contribution]

- Jordan JJ, Hoffman M, Nowak MA, **Rand DG** (In press) Uncalculating cooperation is used to signal trustworthiness. *PNAS*.
- Rand DG** (In press) Cooperation, fast and slow: Meta-analytic evidence for a theory of social heuristics and self-interested deliberation. *Psychological Science*.
- Bear A, **Rand DG** (2016) Intuition, deliberation, and the evolution of cooperation. *PNAS*, **113** 936-941.
- Jordan JJ, Hoffman M, Bloom P, **Rand DG** (2016) Third-party punishment as a costly signal of trustworthiness. *Nature*, **530** 473-476.
- Peysakhovich A, **Rand DG** (2016) Habits of virtue: Creating cultures of cooperation and defection in the laboratory. *Management Science*, **62** 631-647.
- Rand DG**, Brescoll VL, Everett JAC, Capraro V, Barcelo H (2016) Social heuristics and social roles: Altruism is intuitive for women but not for men. *Journal of Experimental Psychology: General*, **145** 389-396.
- Evans AM, Dillon KD, **Rand DG** (2015) Fast but not intuitive, slow but not reflective: Decision conflict drives reaction times in social dilemmas. *Journal of Experimental Psychology: General*, **144** 951-966.
- Nishi A, Shirado H, **Rand DG**, Christakis NA (2015) Inequality and visibility of wealth in experimental social networks. *Nature*, **526** 426-429.
- Gray K*, **Rand DG***, Ert E, Hershman S, Norton MI (2014) The emergence of “Us and Them” in 80 lines of code: Modeling group genesis in homogeneous populations. *Psychological Science*, **25** 982-990.
- Hauser OP*, **Rand DG***, Peysakhovich A, Nowak MA (2014). Cooperating with the future. *Nature*, **511** 220-223.
- Peysakhovich A, Nowak MA, **Rand DG** (2014) Humans display a “Cooperative Phenotype” that is domain general and temporally stable. *Nature Comm*, **5** 4939.
- Rand DG***, Peysakhovich A*, Kraft-Todd GT, Newman GE, Wurzbacher O, Nowak MA, Greene JD (2014) Social heuristics shape intuitive cooperation. *Nature Comm*, **5** 3677.
- Rand DG**, Nowak MA, Fowler JH, Christakis NA (2014) Static network structure can stabilize human

- cooperation. *PNAS*, **111** 17093–17098.
- Rand DG**, Nowak MA (2013) Human cooperation. *Trends in Cognitive Sciences*, **17** 413-425.
- Rand DG***, Tarnita CE*, Ohtsuki H, Nowak MA (2013) Evolution of fairness in the one-shot anonymous Ultimatum Game. *PNAS*, **110** 2581-2586.
- Yoeli E, Hoffman M, **Rand DG**, Nowak MA. (2013) Powering up with indirect reciprocity in a large-scale field experiment. *PNAS*, **110** 10424-10429.
- Fudenberg D*, **Rand DG***, Dreber A (2012) Slow to anger and fast to forgive: Cooperation in an uncertain world. *American Economic Review*, **102** 720-749.
- Rand DG**, Greene JD*, Nowak MA* (2012) Spontaneous giving and calculated greed. *Nature*, **498** 427-430.
- Shenhav A*, **Rand DG***, Greene JD (2012) Divine intuition: cognitive style influences belief in God. *Journal of Experimental Psychology: General*, **131** 423-428.
- van Veelen M*, Garcia J*, **Rand DG**, Nowak MA (2012) Direct reciprocity in structured populations. *PNAS*, **109** 9929-9934.
- Beale N*, **Rand DG***, Battey H, Croxson K, May R, Nowak MA (2011) Individual versus systemic risk and the Regulator's Dilemma. *PNAS*, **108** 12647-12652.
- Rand DG***, Arbesman S*, Christakis NA (2011) Dynamic networks promote cooperation in experiments with humans. *PNAS*, **108** 19193-19198.
- Rand DG**, Nowak MA. (2011) The evolution of antisocial punishment in optional public goods games. *Nature Comm.* **2** 434.
- Rand DG***, Dreber A*, Ellingsen T, Fudenberg D, Nowak MA (2009) Positive interactions promote public cooperation. *Science*, **325** 1272-1275.
- Rand DG***, Pfeiffer T*, Dreber A, Sheketoff RW, Wernerfelt NC, Benkler Y (2009) Dynamic remodeling of in-group bias during the 2008 presidential election. *PNAS*, **106** 6187-6191.
- Dreber A*, **Rand DG***, Fudenberg D, Nowak MA (2008) Winners don't punish. *Nature*, **452** 348-351.

ALL PUBLICATIONS

Peer-review publications

1. Jordan JJ, Hoffman M, Nowak MA, **Rand DG** (In press) Uncalculating cooperation is used to signal trustworthiness. *PNAS*.
2. Nishi A, Christakis NA, Evans AM, O'Malley AJ, **Rand DG** (In press) Social environment shapes the speed of cooperation. *Scientific Reports*.
3. **Rand DG** (In press) Cooperation, fast and slow: Meta-analytic evidence for a theory of social heuristics and self-interested deliberation. *Psychological Science*.
4. Bear A, **Rand DG** (2016) Intuition, deliberation, and the evolution of cooperation. *PNAS*, **113** 936-941.
5. Epstein Z, Peysakhovich A, **Rand DG**. The Good, the Bad, and the Unflinchingly Selfish: Cooperative decision-making can be predicted with high accuracy using only three behavioral types. (2016) *Proceedings of 17th ACM Conference on Economics and Computation*.
6. Everett JAC, Haque OS, **Rand DG** (2016) How good is the Samaritan, and why? An experimental investigation of the extent and nature of religious prosociality using economic games. *Social Psychological and Personality Science*. doi:10.1177/1948550616632577
7. Jordan JJ, Hoffman M, Bloom P, **Rand DG** (2016) Third-party punishment as a costly signal of trustworthiness. *Nature*, **530** 473-476.
8. Peysakhovich A, **Rand DG** (2016) Habits of virtue: Creating cultures of cooperation and defection in the laboratory. *Management Science*, **62** 631-647.
9. **Rand DG**, Brescoll VL, Everett JAC, Capraro V, Barcelo H (2016) Social heuristics and social roles: Altruism is intuitive for women but not for men. *Journal of Experimental Psychology: General*, **145** 389-396.
10. Wesson E, Rand RH, **Rand DG** (2016) Hopf bifurcations in two-strategy delayed replicator dynamics. *International Journal of Bifurcation and Chaos*, **26** 1-13.
11. Blake PR, **Rand DG**, Tingley D, Warneken F (2015) The shadow of the future promotes cooperation in a repeated prisoner's dilemma for children. *Scientific Reports*, **5** 14559.
12. Evans AM, Dillon KD, **Rand DG** (2015) Fast but not intuitive, slow but not reflective: Decision conflict drives reaction times in social dilemmas. *Journal of Experimental Psychology: General*, **144** 951-966.
13. Jordan JJ, McAuliffe K, **Rand DG** (2015) The effects of endowment size and strategy method on third-party punishment. *Experimental Economics*. doi:10.1007/s10683-015-9466-8

14. Kraft-Todd GT, Yoeli E, Bhanot S, **Rand DG** (2015) Promoting cooperation in the field. *Current Opinion in Behavioral Science*, **3** 96-101.
15. Ma Y, Liu Y, **Rand DG**, Heatherton TF, Han S (2015) Opposing oxytocin effects on inter-group social cooperative behavior in intuitive and reflective minds. *Neuropsychopharmacology*, **40** 2379-2387.
16. Nishi A, Shirado H, **Rand DG**, Christakis NA (2015) Inequality and visibility of wealth in experimental social networks. *Nature* **526** 426–429.
17. **Rand DG***, Fudenberg D*, Dreber A (2015) It's the thought that counts: The role of intentions in noisy repeated games. *Journal of Economic Behavior and Organizations*, **116** 481-499.
18. **Rand DG**, Kraft-Todd GT, Gruber J (2015) The collective benefits of feeling good and letting go: Positive emotion and (dis)inhibition interact to predict cooperative behavior. *PLoS ONE*, **10** e0117426
19. **Rand DG**, Newman GE, Wurzbacher O (2015) Social context and the dynamics of cooperative choice. *Journal of Behavioral Decision Making*, **28** 159-166.
20. Roithmayr D*, Isakov A*, **Rand DG** (2015) Should law keep pace with society? Relative update rates determine the co-evolution of institutional punishment and citizen contributions to public goods. *Games*, **6** 124-149.
21. Tomlin DA, **Rand DG**, Ludvig EA, Cohen JD (2015) The evolution and devolution of cognitive control: The costs of deliberation in a competitive world. *Scientific Reports*, **5** 11002.
22. Toupo DFP, **Rand DG**, Strogatz SH (2015) Limit cycles sparked by mutation in the repeated Prisoner's Dilemma. *International Journal of Bifurcation and Chaos*, **24** 1-12.
23. Toupo DFP, Strogatz SH, Cohen JD, **Rand DG** (2015) Evolutionary game dynamics of controlled and automatic decision-making. *Chaos*, **25** 073120.
24. Capraro V, Jordan JJ, **Rand DG** (2014) Heuristics guide the implementation of social preferences in one-shot Prisoner's Dilemma experiments. *Scientific Reports*, **4** 6790.
25. Cone J, **Rand DG** (2014) Time pressure increases cooperation in competitively framed social dilemmas. *PLoS ONE*, **9** e115756.
26. Dreber A, Fudenberg D, **Rand DG** (2014) Who cooperates in repeated games? The role of altruism, inequity aversion, and demographics. *Journal of Economic Behavior and Organization*, **98** 41-55.
27. Engel C, **Rand DG** (2014) What does “clean” really mean? The implicit framing of decontextualized experiments. *Economics Letters*, **122** 386-389.
28. Gray K*, **Rand DG***, Ert E, Hershman S, Norton M (2014) The emergence of “Us and Them” in 80 lines of code: Modeling group genesis in homogeneous populations. *Psychological Science*, **25** 982-990.
29. Hauser OP, Nowak MA, **Rand DG** (2014) Punishment does not promote cooperation under exploration dynamics when anti-social punishment is possible. *Journal of Theoretical Biology*, **360** 163-171.
30. Hauser OP*, **Rand DG***, Peysakhovich A, Nowak MA (2014). Cooperating with the future. *Nature*, **511** 220–223.
31. Peysakhovich A, Nowak MA, **Rand DG**. (2014) Humans display a “cooperative phenotype” that is domain general and temporally stable. *Nature Comm*, **5** 4939.
32. **Rand DG**, Dreber A, Haque OS, Kane RJ, Nowak MA, Coakley S (2014) Religious motivations for cooperation: an experimental investigation using explicit primes. *Religion, Brain & Behavior*, **4** 31-48.
33. **Rand DG**, Epstein ZG. Risking your life without a second thought: Intuitive decision-making and extreme altruism (2014) *PLoS ONE*, **9** e109687
34. **Rand DG**, Nowak MA, Fowler JH, Christakis NA (2014) Static network structure can stabilize human cooperation. *PNAS*, **111** 17093–17098.
35. **Rand DG**, Kraft-Todd, GT (2014) Reflection does not undermine self-interested prosociality. *Frontiers in Behavioral Neuroscience*, **8** 300.
36. **Rand DG***, Peysakhovich A*, Kraft-Todd GT, Newman GE, Wurzbacher O, Nowak MA, Greene JD (2014) Social heuristics shape intuitive cooperation. *Nature Comm*, **5** 3677.
37. **Rand DG**, Yoeli E, Hoffman M (2014) Harnessing reciprocity to promote cooperation and the provisioning of public goods. *Policy Insights from Behavioral and Brain Sciences*, **1** 1-17.
38. Roberts ME, Stewart BM, Tingley D, Lucas C, Leder-Luis J, Gadarian S, Albertson B, **Rand DG** (2014) Structural topic models for open-ended survey responses. *American Journal of Political Science*, **58** 1064-1082.
39. Dreber A, Ellingsen T, Johannesson M, **Rand DG** (2013) Do people care about social context? Framing effects in dictator games. *Experimental Economics*, **16** 349–371.
40. Jordan JJ, **Rand DG**, Arbesman S, Fowler JH, Christakis NA. (2013) Contagion of cooperation in static and fluid social networks. *PLoS ONE*. 8(6): e66199

41. **Rand DG**, Nowak MA (2013) Human cooperation. *Trends in Cognitive Sciences*, **17** 413-425.
42. **Rand DG***, Tarnita CE*, Ohtsuki H, Nowak MA (2013) Evolution of fairness in the one-shot anonymous Ultimatum Game. *PNAS*, **110** 2581-2586.
43. Ruelas RE, **Rand DG**, Rand RH (2013) Parametric excitation and evolutionary dynamics. *Journal of Applied Mechanics*, **80** 051013 1-6.
44. Yoeli E, Hoffman M, **Rand DG**, Nowak MA. (2013) Powering up with indirect reciprocity in a large-scale field experiment. *PNAS*, **110** 10424-10429.
45. Amir O, **Rand DG**, Gal YK (2012) Economic games on the Internet: the effect of \$1 stakes. *PLoS ONE*. **7** e31461.
46. Fudenberg D*, **Rand DG***, Dreber A (2012) Slow to anger and fast to forgive: Cooperation in an uncertain world. *American Economic Review*, **102** 720-749.
47. Fu F*, Tarnita CE*, Christakis NA, Wang L, **Rand DG**, Nowak MA (2012) Evolution of in-group favoritism. *Scientific Reports*, **2** 460.
48. Isakov A, **Rand DG** (2012) The evolution of coercive institutional punishment. *Dynamic Games and Applications*, **2** 97-109.
49. Manapat ML, Nowak MA, **Rand DG** (2012) Information, irrationality and the evolution of trust. *Journal of Economic Behavior and Organization*, **90** S57-S75.
50. Manapat ML, **Rand DG** (2012) Delayed and inconsistent information and the evolution of trust. *Dynamic Games and Applications*, **2** 401-410.
51. Manapat ML, **Rand DG**, Pawlowitsch C, Nowak MA (2012) Stochastic evolutionary dynamics resolve the Traveler's Dilemma. *Journal of Theoretical Biology*, **303** 119-127.
52. Pfeiffer T, Gao XA, Mao A, Chen Y, **Rand DG** (2012) Adaptive information polling and aggregation. *Proceedings of the Twenty-Sixth AAAI Conference on Artificial Intelligence (AAAI-12)*.
53. Pfeiffer T, Tran L, Krumme O, **Rand DG** (2012) The value of reputation. *Journal of the Royal Society Interface*, **9** 2791-2797.
54. **Rand DG** (2012) The promise of Mechanical Turk: How online labor markets can help theorists run behavioral experiments. *Journal of Theoretical Biology* **299** 172-179.
55. **Rand DG**, Greene JD*, Nowak MA* (2012) Spontaneous giving and calculated greed. *Nature*, **498** 427-430.
56. **Rand DG**, Nowak MA (2012) Evolutionary dynamics in finite populations can explain the full range of cooperative behaviors observed in the centipede game. *Journal of Theoretical Biology*, **300** 212-221.
57. Ruelas RE, **Rand DG**, Rand RH (2012) Nonlinear parametric excitation of an evolutionary dynamical system. *Journal of Mechanical Engineering Science*, **226** 1912-1920.
58. Shenhav A*, **Rand DG***, Greene JD (2012) Divine intuition: cognitive style influences belief in God. *Journal of Experimental Psychology: General*, **131** 423-428.
59. van Veelen M*, Garcia J*, **Rand DG**, Nowak MA (2012) Direct reciprocity in structured populations. *PNAS*, **109** 9929-9934.
60. Beale N*, **Rand DG***, Battey H, Croxson K, May R, Nowak MA. (2011) Individual versus systemic risk and the Regulator's Dilemma. *PNAS*, **108** 12647-12652.
61. Dreber A, **Rand DG**, Wernerfelt NC, Garcia JR, Lum JK, Zeckhauser RJ (2011) Dopamine and risk choices in different domains: Findings among serious tournament bridge players. *Journal of Risk and Uncertainty*, **43** 19-38.
62. Horton JJ, **Rand DG**, Zeckhauser RJ (2011) The online laboratory: Conducting experiments in a real labor market. *Experimental Economics* **14** 399-425.
63. **Rand DG***, Arbesman S*, Christakis NA (2011) Dynamic networks promote cooperation in experiments with humans. *PNAS*, **108** 19193-19198.
64. **Rand DG**, Nowak MA. (2011) The evolution of antisocial punishment in optional public goods games. *Nature Comm*, **2** 434.
65. Rand RH, Yahzbin M, **Rand DG** (2011) Evolutionary dynamics of a system with periodic coefficients. *Communications on Nonlinear Sciences and Numerical Simulation*, **16** 3887-3895.
66. Blake PR & **Rand DG** (2010) Currency value moderates equity preference among young children. *Evolution & Human Behavior*, **31** 210-218.
67. Hill AL*, **Rand DG***, Nowak MA, Christakis NA (2010) Emotions as infectious diseases in a large social network: the SISa model. *Proceedings of the Royal Society: Biological Sciences*, **277** 3827-3835.
68. Hill AL, **Rand DG**, Nowak MA, Christakis NA (2010) Infectious disease modeling of social contagion in networks. *PLoS Computational Biology*, **6** e1000968.

69. **Rand DG**, Armao JJ, Nakamaru M, Ohtsuki H (2010) Anti-social punishment can prevent the co-evolution of punishment and cooperation. *Journal of Theoretical Biology*, **265** 624-632.
70. Pfeiffer T, **Rand DG**, Dreber A (2009) Decision-making in research tasks with sequential testing. *PLoS ONE*, **4** e4607.
71. **Rand DG**, Ohtsuki H, Nowak MA (2009) Direct reciprocity and costly punishment: generous tit-for-tat prevails. *Journal of Theoretical Biology*, **256** 45-57.
72. **Rand DG**, Pfeiffer T. (2009) Systematic differences in impact across publication tracks at PNAS. *PLoS ONE*, **4** e8092.
73. **Rand DG***, Dreber A*, Ellingsen T, Fudenberg D, Nowak MA (2009) Positive interactions promote public cooperation. *Science*, **325** 1272-1275.
74. **Rand DG***, Pfeiffer T*, Dreber A, Sheketoff RW, Wernerfelt NC, Benkler Y (2009) Dynamic remodeling of in-group bias during the 2008 presidential election. *PNAS*, **106** 6187-6191.
75. Dreber A*, **Rand DG***, Fudenberg D, Nowak MA (2008) Winners don't punish. *Nature*, **452** 348-351.
76. **Rand DG**, Zhou Q, Buzzard G, Fox JJ (2008) Computationally efficient strategy for modeling the effect of ion current modifiers. *IEEE Transactions on Bio-Medical Engineering*, **55** 3-13.

Book chapters

77. Stagnaro MN, **Rand DG** (In press) The co-evolution of religious belief and intuitive cognitive style via individual-level selection, in "Oxford Handbook of Evolutionary Perspectives on Religion." Eds. Liddle JR, Shackelford T. Oxford, UK: Oxford University Press.
78. Kraft-Todd GT, **Rand DG** (2016) Adaptive foundations of heroism: Social heuristics push everyday ethical behavior to heroic extremes, in "Handbook of Heroism and Heroic Leadership." Eds. Allison ST, Goethals G, Kramer R. London, UK: Routledge Publishing.
79. Jordan JJ, Peysakhovich A, **Rand DG** (2015) Why We Cooperate, in "The Moral Brain: Multidisciplinary Perspectives." Eds. Decety J and Wheatley T. Cambridge, MA: MIT Press.
80. **Rand DG**, Nowak MA (2015) Cooperation among humans, in "Global cooperation and the human factor." Eds. Messner D, Guarin A, Daun D. London, UK: Routledge Publishing.
81. McCabe CM, **Rand DG** (2014) Coordinated punishment does not proliferate when defectors can also punish cooperators, in "Antisocial Behavior: Etiology, Genetic and Environmental Influences and Clinical Management", Ed. Gallo JH. Hauppauge, NY: Nova Publishers.
82. Almenberg J, Dreber A, Apicella CL, **Rand DG** (2011) Third party reward and punishment: Group size, efficiency and public goods, in "Psychology of Punishment", Eds. NM Palmetti et al. Hauppauge, NY: Nova Publishers.

Commentaries / replies

83. Bear A, **Rand DG** (In press) Modeling intuition's origins. *Journal of Applied Memory & Cognition*.
84. Amir D, Jordan MR, **Rand DG** (2016) Cultural evolution need not imply group selection. *Behavioral and Brain Sciences*. doi:10.1017/S0140525X15000059, e32
85. Bear A, **Rand DG** (2016) Reply to Myrseth and Wollbrant: Our model is consistent with altruism, and helps to explain its evolution. *PNAS*. doi:10.1073/pnas.1603854113
86. **Rand DG** (2015) Clarification regarding Rand et al. (2015) "Social context and the dynamics of cooperative choice." *Journal of Behavioral Decision Making*, doi:10.1002/bdm.1898.
87. **Rand DG**, Greene JD, Nowak MA (2013) Reply to "Intuition and cooperation reconsidered." *Nature* **498** E2–E3.
88. Dreber A, **Rand DG** (2012) Retaliation and anti-social punishment are overlooked in many theoretical models as well as behavioral experiments. *Behavioral and Brain Sciences* **35**, 24.
89. Haque OS, Shenhav A, **Rand DG** (2011) Differences in cognitive style, emotional processing and ideology as crucial variables in understanding meaning making. *Religion, Brain & Behavior* **1**, 223-225.
90. **Rand DG**, Dreber A, Ellingsen T, Fudenberg D, Nowak MA (2009) Weighing reward and punishment — Response. *Science* **326**, 1632-1633.

POPULAR PRESS ARTICLES

91. Jordan JJ, Bloom P, Hoffman M, **Rand DG** (2016) What is moral outrage for? *New York Times*.

92. Yoeli E, **Rand DG** (2015) The trick to acting heroically. *New York Times*.
93. Yoeli E, Bhanot S, Kraft-Todd GT, **Rand DG** (2015) How to get people to pitch in. *New York Times*.
94. Yoeli E, Hoffman M, **Rand DG** (2014) How to prevent summer blackouts. *New York Times*.
95. Jordan JJ, **Rand DG** (2013) Human nature revisited. *Wired UK "The World in 2014" Special Edition*.
96. Peysakhovich A, **Rand DG** (2013) Virtual worlds, real insights. *Wired UK "The World in 2014" Special Edition*.
97. Van Bavel JJ, **Rand DG** (2013) Restocking our subject pools. *Association for Psychological Science Observer* **26**.
98. Haque OS, **Rand DR** (2012) Religion goes into the science lab. *Wired UK "The World in 2013" Special Edition*.
99. Peysakhovich A, **Rand DG** (2012) Small is good when it comes to data creation. *Wired UK "The World in 2013" Special Edition*.
100. **Rand DG**, Nowak MA (2009) Name and shame: How reputation could save the earth. *New Scientist*, **2734** 28-29.

SUBMITTED / WORKING PAPERS

101. Kraft-Todd GK, Norton M, **Rand DG**. The selfishness of selfless people: Harnessing the theory of self-concept maintenance to increase charitable giving. Available at <http://ssrn.com/abstract=2568869>.
102. Jordan MR*, Jordan JJ*, **Rand DG**. Group competition experiments provide no evidence that intergroup conflict shaped the evolution of human cooperation.
103. Stagnaro MN, Arechar AA, **Rand DG**. From good institutions to good norms: Top-down incentives to cooperate foster prosociality but not norm enforcement. Available at <http://ssrn.com/abstract=2720585>.
104. Dreber A, Fudenberg D, Levine DK, **Rand DG**. Self-Control, Social Preferences and the Effect of Delayed Payments. Available at SSRN: <http://ssrn.com/abstract=2477454>.
105. Hauser OP, Hendriks A, **Rand DG***, Nowak MA*. Think global, act local: Preserving the global commons. Available at <http://ssrn.com/abstract=2722407>.
106. Arechar AA, Dreber A, Fudenberg D, **Rand DG**. "I'm just a soul whose intentions are good": Communication in noisy repeated games. Available at <http://ssrn.com/abstract=2748890>.
107. Jordan JJ, Sommers R, Bloom P, **Rand DG**. Why do we hate hypocrites? Evidence for a theory of false signaling.
108. Hauser OP, Kraft-Todd GK, **Rand DG**, Nowak MA, Norton M. Punishing the poor and rewarding the rich.
109. Stagnaro MN, Yarrow D, **Rand DG**. Profit versus prejudice: Harnessing self-interest to mitigate ingroup bias. Available at <http://ssrn.com/abstract=2782897>.
110. Jordan MR, Amir D, **Rand DG**. Adverse Early Life Environment Increases Strategic Fairness, but not Altruism, in Response to Uncertainty.
111. Shenhav A, **Rand DG**, Greene JD. The path of least resistance: Intertemporal choice and its relationship to choices, preferences, and beliefs. Available at <http://ssrn.com/abstract=2724547>.
112. **Rand DG**. Cooperation (unlike altruism) is intuitive for men as well as women. Available at SSRN: <http://ssrn.com/abstract=2722981>
113. Ellingsen T, Herrmann B, Nowak MA, **Rand DG**, Tarnita CA. Civic capital in two cultures: The nature of cooperation in Romania and USA. Available at SSRN: <http://ssrn.com/abstract=2179575>.
114. Dreber A, **Rand DG**, Wernerfelt N, Worrell PR, Zeckhauser RJ. The decisions of entrepreneurs and their agents: Revealed levels of risk aversion and betrayal aversion. Available at SSRN: <http://ssrn.com/abstract=2263282>.
115. Wells JS, **Rand DG**. Strategic self-interest can explain seemingly "fair" offers in the Ultimatum Game. Available at SSRN: <http://ssrn.com/abstract=2136707>.
116. Dreber A, **Rand DG**, Wernerfelt NC, Garcia JR, Lum JK, Zeckhauser RJ. The dopamine receptor D4 gene (DRD4) and self-reported risk taking in the economic domain. *HKS Faculty Research Working Paper Series RWP11-042*.
117. Dreber A*, **Rand DG***, Wernerfelt NC, Montgomery CA, Malhotra D. Genetic correlates of economic and social risk taking. Available at SSRN: <http://ssrn.com/abstract=2141601>.
118. Wernerfelt NC*, **Rand DG***, Dreber A, Montgomery CA, Malhotra D. Arginine vasopressin 1a receptor (AVPR1a) RS3 repeat polymorphism associated with entrepreneurship. Available at SSRN: <http://ssrn.com/abstract=2141598>.

TEACHING EXPERIENCE

- Spring 2015, PSYCH 320/520: Computation Modeling of Social Interaction. Undergraduate/graduate class, Yale University. Student ratings: mean, 4.5/5; mode 5/5
- Fall 2014, PSYC 232L: Research Methods in Social Decision-Making. Undergraduate class, Yale University. Student ratings: mean, 4.2/5; mode 5/5
- Spring 2014, PSYC 232L: Research Methods in Social Decision-Making. Undergraduate class, Yale University. Student ratings: mean, 3.8/5; mode 4/5
- Fall 2011, HEB 1385: The Evolution of Human Cooperation. Undergraduate class, Harvard University. Student ratings: mean 4.9/5; mode 5/5
- Spring 2009, Math 243: Evolutionary Dynamics. Graduate class, [*Teaching fellow*], Harvard University. [Unrated]
- Fall 2008, Math153: Mathematical Biology – Evolutionary Dynamics. Undergraduate class, [*Teaching fellow*], Harvard University. Average student rating 4.4/5.0
- Fall 2007, SB 200: A Systems Approach to Biology. Graduate class, [*Teaching fellow*], Harvard University. Average student rating of 4.9/5.0

STUDENT ADVISING

Post-doctoral supervisees

- Jonathan Schulz (Ph.D. Economics, University of St.Gallen), 2015 – present [Jointly advised with Yarrow Dunham]
- Christina Starmans (Ph.D. Psychology, Yale University), 2015 – present [Jointly advised with Paul Bloom]
- Antonio Alonso Arechar (Ph.D. Economics, University of Nottingham), 2014 – present
- Rimma Teper (Ph.D. Social Psychology, University of Toronto), 2014 – 2015; post-doc at University of Toronto
- Jeremy Cone (Ph.D. Social Psychology, Cornell University), 2013 – 2015; Williams College tenure-track professor
- Alexander Peysakhovich (Ph.D. Economics, Harvard University), 2013 – 2014; Facebook data science researcher

Ph.D. students

- Gordon Kraft-Todd, Yale Psychology. In progress.
- Jillian J. Jordan, Yale Psychology. In progress.
- Adam Bear, Yale Psychology. In progress. [Jointly advised with Paul Bloom]
- M. Nicholas Stagnaro, Yale Psychology. In progress.
- Oliver P. Hauser, Harvard Organismic and Evolutionary Biology. “Challenging Cooperation: Inequality, Global Commons, Future Generations.” 2016. [Jointly advised with Martin Nowak]
- Michael L. Manapat, “Critical phenomena in evolutionary dynamics”, MIT Mathematics. June 2010. [Advised under supervision of Martin Nowak]

Undergraduate senior thesis students

- Matthew Cohen, “Framing Private Vaccination Behavior as a Public Good: A Randomized Trial of Self- and Other-Framed Influenza Vaccination Appeals”, Yale Cognitive Science, June 2016
- Ari Kagan, “Imperfect Deliberation, Context-sensitive Intuition, and the Evolution of Cooperation: A computational game-theoretic model of the evolution of cooperation in dual-process agents”, Yale Cognitive Science, June 2016
- Laura Peng, “Monetary Incentives Elicit Hyperaltruistic Behavior in Contexts of Moral Decision-Making”, Yale Psychology, December 2015
- Ruchita Gupta, “Serial Reciprocity with Endowed Money, Earned Money, and Effort: An Experimental Approach”, Yale Psychology, December 2015
- Thomas Veitch, “Moral Evaluations Run Amok: Moral-Valence Biases Extend to Mild Outcomes”, Yale Psychology, May 2015
- Jazear Brooks, “The Effect of Emotion on Decision-Making”, Yale Economics, December 2013 [Advised jointly with Johannes Horner].

- Owen M. Wurzbacher, “How Robust is the Human Cooperative Impulse? An investigation of intuitive cooperation across social contexts”, Harvard Human Evolution Biology, June 2013
- Nils C. Wernerfelt, “The Evolution of Cooperation on Dynamic Graphs”, Harvard Mathematics, June 2009; winner of the 2009 Thomas Temple Hoopes prize for excellence in the work of undergraduates. [Advised jointly with Corina Tarnita under supervision of Martin Nowak.]
- Joseph J. Armao, “Evolutionary Game Dynamics, Cooperation, and Costly Punishment”, Harvard Mathematics, June 2009 [Advised jointly with Corina Tarnita under supervision of Martin Nowak.]

HONORS & AWARDS

- 2016 Voted by graduate students to represent the Social Sciences at *Inspiring Yale!*
- 2015 International Social Cognition Network’s 2014 Best Social Cognition Paper Award, for Gray et al. “The Emergence of ‘Us and Them’ in 80 Lines of Code: Modeling Group Genesis in Homogeneous Populations”
- 2015 Arthur Greer Memorial Prize for Outstanding Scholarly Publication or Research, Yale University
- 2014 “Risking your life without a second thought: Intuitive decision-making and extreme altruism” selected by UC Berkeley’s Greater Good Science Center as a 2014 Top 10 Insight from the “Science of a Meaningful Life”
- 2014 “Spontaneous giving and calculated greed” featured as a recommended paper by Faculty of 1000
- 2014 Gosnell Prize for Excellence in Political Methodology for best work in political methodology presented at any political science conference during 2013, for Roberts et al. “Structural topic models for open-ended survey responses.”
- 2013 Editor's Prize: Best article published in the 2011 volumes of *Experimental Economics*, for Horton et al “The Online Laboratory: Conducting Experiments in a Real Labor Market.”
- 2012 “Spontaneous giving and calculated greed” selected by UC Berkeley’s Greater Good Science Center as a 2012 Top 10 Insight from the “Science of a Meaningful Life”
- 2012 Pop!Tech 2012 Science Fellow
- 2012 Wired magazine’s Smart List 2012 of “50 people who will change the world”
- 2011 Harvard University Derek Bok Center Certificate for Distinction in Teaching (Human Evolutionary Biology 1380 Instructor)
- 2010 Best Student Presentation, International Society on Dynamic Games Symposium, Banff CA
- 2009 AAAS/Science Program for Excellence in Science
- 2007 Harvard University Derek Bok Center Certificate for Distinction in Teaching (Systems Biology 200 Teaching Fellow)

GRANT SUPPORT

External support

- 2015 Sub-award from “Roybal Center for Social Networks and Well-Being”, National Institute on Aging, National Institutes of Health. David Rand (PI). 8/1/2015-5/30/2016.
- 2015 Integrated Philosophy and Science of Self-Control: “Self-Control and Cooperation: Evolutionary, developmental and cross-cultural perspectives.” Yarrow Dunham (PI), David Rand (PI), Eric Mandelbaum (Co-Investigator). 7/1/2015-6/30/2017.
- 2015 Templeton Science of Prospection Award: “Promoting cooperation with our future selves.” David Rand (PI). 1/1/2015-12/31/2016.
- 2014 Chicago Booth Center for Decision Science New Paths to Purpose Project: “Institutions and purpose: how rules can ‘crowd in’ or ‘crowd out’ a sense of purposeful prosociality.” David Rand (PI) & Alex Peysakhovich (Co-Investigator). 1/1/2014-6/30/2015.

- 2014 The VIA Institute on Character Strengths: “Developing a Theory of Character Strengths.” David Rand (PI). 1/1/2014-12/31/2016.
- 2012 Foundational Questions in Evolutionary Biology initiative: “The evolution of cognitive complexity.” Joshua Green (PI) & David Rand (Co-Investigator). 10/1/2012-9/30/2014. .
- 2012 John Templeton Foundation: “The evolution of cooperation.” Martin Nowak (PI) & David Rand (Co-Investigator). 1/1/2013-12/31/2015.
- 2010 Foundational Questions in Evolutionary Biology Prize Post-Doctoral Fellowship. 7/1/2010-6/30/2012.
- 2007 National Science Foundation Graduate Research Fellowship Program. 8/1/2007-5/30/2010.

Internal support

- 2016 MacMillan Faculty Research Grant, with Yarrow Dunham
- 2009 Berkman Center for Internet & Society Graduate Student Award
- 2009 Harvard Mind Brain & Behavior Initiative Graduate Student Award, with Michael Manapat and Daniel Rosenbloom
- 2008 Harvard Mind Brain & Behavior Initiative Graduate Student Award, with Peter Blake

REFEREEING

Editorial board: PNAS (ad hoc), Current Opinion in Psychology, Heroism Science

Reviewer: Science, Nature, National Science Foundation, PNAS, Nature Comm, Psychological Science, J Experimental Psychology: General, J Personality and Social Psychology, American Economic Review, Quarterly Journal of Economics, Management Science, J Marketing Research , Behavioral and Brain Sciences, Perspectives on Psychological Science, Psychological Review, Current Directions in Psychological Science, Emotion, Organizational Behavior and Human Decision Processes, Proc Royal Society B, J Royal Society Interface, Evolution & Human Behavior, Cognitive Affective and Behavioral Neuroscience, Current Biology, Games and Economic Behavior, J Theoretical Biology, Experimental Economics, J Economic Behavior & Organization, J Evolutionary Economics, EPL, Genes Brain & Behavior, Theoretical Population Biology, Physica A, PLoS ONE, Behavioral and Brain Functions, Religion Brain & Behavior, J Socio Economics, Phys Life Rev, Evolutionary Behavioral Sciences, Royal Society Open Science

MEDIA COVERAGE

Print/online media coverage includes the Economist, the BBC, the Atlantic, the Associated Press, CBS News, Scientific American, Wired, The Atlantic, Reuters, Boston Globe, Huffington Post, the New Scientist, London’s Daily Telegraph, the Washington Post, Rolling Stone, Discover, the New York Times’ Lede and Freakonomics blogs, the Financial Times and the Los Angeles Times.

Radio/TV interviews:

- CBS New York nightly TV news – 12/4/2015
- WCPT Chicago’s Progressive Talk *Wayne Besen Show* – 8/31/2015
- NPR’s *Here and Now* – 8/24/2015
- KCRW’s nationally syndicated *To The Point* – 8/24/2015
- France24 Newscast – 8/24/2015
- Southern California Public Radio’s *Take Two* – 8/24/2015
- Wisconsin Public Radio’s *Central Time* – 7/6/2015

KSTX San Antonio TX Public Radio's *The Source* – 11/05/2014
Wisconsin Public Radio's *Joy Cardin Show* – 10/30/2014
KXRY Portland OR Public Radio – 10/27/2014
Radio New Zealand – 7/14/2014
WWL New Orleans – 6/16/2014
BBC World Service – 09/21/2012
WBZ Boston CBS Radio – 09/20/2012
Nature podcast – 09/19/2012
BBC World Service – 11/26/2011
WBAL Baltimore – 11/16/2011
NPR's *Morning Edition*, Marketplace – 12/27/2010
MSNBC Saturday nationally broadcast live TV interview – 11/13/2010
WKNO Public Radio – 11/12/2010
WFCR Public Radio – 11/5/2010
Canadian Broadcasting Corporation's *Spark* – 9/11/2010
EarthSky – 8/9/2010
Voice of America – 09/21/2009
Science podcast – 09/4/2009
Open House podcast, Australia – 03/25/2008
KZOK Seattle's *Bob Rivers Show* – 03/24/2008
Nature podcast – 03/20/2008
NPR's *All Things Considered* – 03/19/2008

PRESENTATIONS/TALKS

Keynote addresses

1. “Intuitive social heuristics and deliberative self-interest”, ‘Is Sin Original’ symposium, University of Amsterdam May 2016
2. “Human cooperation”, Human Computation & Crowdsourcing (HCOMP), San Diego CA November 2015
3. “Habits of virtue and the Social Heuristics Hypothesis”, International Conference on Social Dilemmas, Hong Kong, June 2015
4. “Habits of virtue and norms of prosociality”, Behavioral Ethics Conference, University of Central Florida, Orlando FL, Feb 2014
5. “Constructing and living in a cooperative world”, International Symposium on Economics in a Complex World: Networks and Agents, Madrid Spain, September 2012

Invited talks

6. “The cognitive underpinnings of human cooperation”, Brain & Cognitive Sciences, MIT, Cambridge MA May 2016
7. “Intuition, deliberation, and human cooperation”, Positive Psychology Center, University of Pennsylvania, Philadelphia PA April 2016
8. “Human cooperation”, Inspiring Yale, Yale University, New Haven CT March 2016
9. “Human cooperation”, Environmental Economics Seminar, Yale University, New Haven CT February 2016
10. “Intuition, deliberation, and human cooperation”, Marketing Seminar, Sloan School, MIT, Cambridge MA February 2016
11. “Evolution of intuitive cooperation and rational self-interest”, CLIPS, Brown University September 2015
12. “Fostering purposeful prosociality”, New Paths to Purpose capstone meeting, Booth School of Business, University of Chicago June 2015
13. “Habits of virtue & social heuristics; Or, where do social preferences come from?”, Social Dilemmas Conference, Brown University, Providence RI May 2015
14. “Habits of virtue and the role of social heuristics in human cooperation”, Organization Studies Seminar, Sloan School, MIT, Cambridge MA April 2015

15. "Habits of virtue and the role of social heuristics in human cooperation", Marketing Seminar, Sloan School, MIT, Cambridge MA April 2015
16. "Habits of virtue and social heuristics: Where do social preferences come from?" Organizational Economics Working Group, National Bureau of Economic Research, Cambridge MA April 2015
17. "Intuitive prosociality", Motivation and Emotion Science Symposium, Private SPSP Preconference February 2015
18. "Human cooperation", Social Psychology Brown Bag, UMass Amherst February 2015
19. "Social heuristics: The role of intuition in cooperation & punishment", Conference on Cognitive Control and Social Decision Making, Toulouse School of Economics, France, January 2015
20. "Social heuristics: Intuition versus deliberation & cooperation", Cognition and Perception Seminar, New York University, November 2014
21. "Human cooperation", Oxford University Press PsychTalk, November 2014
22. "Human cooperation", Behavioral Economics and Philanthropy Conference, Harvard Kennedy School, November 2014
23. "Automatic social prospection", Prospection in Social Life Conference, Barcelona Spain, October 2014
24. "Promoting human cooperation and building habits of virtue", Decision Processes Colloquium, Wharton School, University of Pennsylvania, September 2014
25. "Harnessing network effects to promote human cooperation", Yale Institute for Network Science, September 2014
26. "Social heuristics and habits of virtue: the roles of intuition and deliberation in prosociality", New Frontiers in Behavioral and Experimental Economics Workshop, Zurich, August 2014
27. "Institutions and Purpose: How Rules 'Crowd In' or 'Crowd Out' Purposeful Prosociality", Booth School of Business, University of Chicago, June 2014
28. "Cooperation on social networks", Invited Symposium, Association for Psychological Science, Berkeley CA, May 2014
29. "Spontaneous giving and calculated greed: the automatic psychology of cooperation", Psychology Department Colloquium, Smith College, April 2014
30. "Strategies used in noisy repeated games: experimental evidence", Economics Micro Theory Lunch, Yale University, March 2014
31. "Intuitive cooperation and habits of virtue", Moral Philosophy Workshop, Yale University, Feb 2014
32. "Slow to anger and fast to forgive: cooperation in an uncertain world", Cooperation and Competition Pre-conference, SPSP, Austin TX, Feb 2014 **[Pre-conference organizer]**
33. "Intuitive cooperation and habits of virtue", NIH Intramural Research Program, Bethesda MD, Jan 2014
34. "Habits of virtue and norms of prosociality", Compassion Research Day, Facebook HQ, December 2013
35. "Habits of virtue: Creating norms of cooperation and defection in the laboratory", Economics/Strategy Seminar, Rady School of Management, UC San Diego, November 2013
36. "Intuitive Cooperation and Habits of Virtue", Behavioral & Cognitive Neuroscience Seminar, Columbia University, October 2013
37. "Intuitive Cooperation and the Social Heuristics Hypothesis", Affective Brain Lab, University College London, October 2013
38. "Why we cooperate", Social Cognition Brownbag, Brown University, October 2013
39. "Understanding human social behavior via data generation", Day of Data, Yale University, September 2013
40. "Why we cooperate", Social Psychology Seminar, Yale University, September 2013
41. "Habits of virtue: Creating norms of cooperation and defection in the laboratory", Workshop on Experimental Game Theory, Stony Brook NY, July 2013
42. "Engineering cultures of cooperation", Strategy Research Initiative, Columbia Business School, June 2013
43. "Institutions build intuitions: Evolving cultures of cooperation and defection in the laboratory", Behavioral and Experimental Economics Seminar, Department of Economics, Harvard University, April 2013
44. "Designing and living in a cooperative world", Learning Innovations Laboratory, Harvard Graduate School of Education, March 2013
45. "Spontaneous giving and calculated greed", Department of Psychology, New York University, March 2013
46. "Spontaneous giving and calculated greed", Media Lab, Massachusetts Institute of Technology, March 2013
47. "Spontaneous giving and calculated greed", Department of Psychology, Northeastern University, February 2013
48. "Spontaneous giving and calculated greed", Center for Collective Intelligence, Massachusetts Institute of Technology, February 2013

49. "Creating & destroying norms of cooperation in the lab", Biological Anthropology, Yale University, February 2013
50. "Spontaneous giving and calculated greed", Evolution of Religion, Cooperation and Morality thematic series, University of British Columbia, November 2012
51. "Designing and living in a cooperative world", PopTech Conference, Camden ME, October 2012 [**PopTech Science Fellow**]
52. "Cooperation and norm enforcement across cultures", European Policies from a Behavioral Economics Perspective, European Commission Joint Research Centre, Ispra Italy, September 2012
53. "Constructing and living in a cooperative world", Management Leadership and Decision Sciences seminar, Kennedy School of Government, Harvard University, February 2012
54. "Constructing and living in a cooperative world", Department of Psychology, Harvard University, January 2012
55. "Cooperation in an uncertain world", Social and Decision Sciences, Carnegie Mellon University, January 2012
56. "Constructing and living in a cooperative world", Department of Psychology, Princeton University, January 2012
57. "Constructing and living in a cooperative world", Negotiation Organizations and Markets seminar, Harvard Business School, January 2012
58. "Constructing and living in a cooperative world", Kellogg School of Management, Northwestern University, January 2012
59. "Cooperation in an uncertain world", Booth School of Business, University of Chicago, January 2012
60. "Constructing and living in a cooperative world", Department of Psychology, Yale University, December 2011
61. "Constructing and living in a cooperative world", School of Management, Yale University, December 2011
62. "The evolution of antisocial punishment", The Foundations of Moral Preferences, Centre for the Study of Mind in Nature, University of Oslo, November 2011
63. "Reward, punishment, and the maintenance of large-scale cooperation", Center for Human Science, Chapel Hill NC, October 2011
64. "Reward, punishment and the evolution of cooperation", Virtual Brownbag webinar series on culture, conflict, and collaboration, hosted by Department of Psychology, University of Maryland, Oct 2011
65. "Cooperation and spite: an evolutionary game theoretic perspective", Psychology Department, Princeton University, September 2011
66. "Punishment, spite and the evolution of cooperation", Complex Systems Seminar, Northwestern University, September 2011
67. "How online labor markets are revolutionizing innovation and discovery in the social sciences", Innovation and Economic Growth: Exploring the Origins and Effects of Innovative Behavior, Gruter Institute for Law, Brain and Behavior, Squaw Valley, May 2011
68. "The personal is political: private interactions can support public goods", Law and Human Behavior, Gruter Institute for Law, Brain and Behavior, Squaw Valley, May 2011
69. "Slow to anger and fast to forgive: cooperation in an uncertain world", Max Plank Institute for Research on Collective Goods, April 2011
70. "The evolutionary dynamics of human cooperation", Applied Mathematics Colloquium, Massachusetts Institute of Technology, March 2011
71. "Reward, punishment and the evolution of human cooperation", New England Complex Systems Institute / MIT Engineering Systems Division Seminar, Massachusetts Institute of Technology, March 2011
72. "Reward, punishment and the evolution of cooperation", Coping with Crises in Complex Socio-Economic Systems Seminar, ETH Zurich, March 2011
73. "Reward, punishment and the evolution of cooperation", Human Evolutionary Biology department colloquium, Harvard University, November 2010
74. "Reward, punishment and public goods", Experimental Economics Seminar, George Mason University, November 2010
75. "Slow to anger and fast to forgive: cooperation in an uncertain world", Behavioral and Experimental Economics Seminar, Harvard University, November 2010
76. "The online laboratory: taking experimental social science onto the internet", Berkman Center for Internet & Society Luncheon Series, Harvard University

77. “The evolution of anti-social punishment”, The Nature of Preferences and Decision-Making, The Tinbergen Institute, University of Amsterdam, September 2010
78. “Reward, punishment and the evolution of cooperation”, Department of Complex Systems Seminar, University of Michigan, September 2010
79. “A genetic basis of serial entrepreneurship”, Innovation and Economic Growth, Lake Tahoe NV, May 2010
80. “Slow to anger and fast to forget: leniency and forgiveness in an uncertain world”, Law, Behavior and the Brain, Gruter Institute for Law and Behavioral Research, Lake Tahoe NV, May 2010
81. “The evolution of cooperation, and what it can teach us about mortality”, Moral Biology Conference, Harvard Law School, April 2010
82. “Reward, punishment and the provisioning of public goods”, Critical Perspectives on Law and Economics Seminar, University of Minnesota Law School, March 2010
83. “Winners don’t punish”, Department of Mathematics Seminar, Wilfrid Laurier University, Waterloo Canada, March 2010
84. “Human cooperation, an evolutionary perspective”, Behavioral Economics & Decision Research Seminar, Cornell University, February 2010
85. “The evolutionary dynamics of altruistic cooperation”, Applied Mathematics Colloquium, Cornell University, February 2010
86. “Rewards outperform punishment for promoting public cooperation”, Museum of Comparative Zoology Lunch Series, Harvard University, October 2009
87. “Winners don’t punish”, International Symposium on Complex Networks and Evolutionary Dynamics, Xidian University, Xi’an, China, October 2009
88. “Winners don’t punish”, Conference on Evolutionary Dynamics, Peking University, Beijing, Oct 2009
89. “When can genetics teach us about human behavior, and do we really want to know?”, Science Friends-of-O’Reilly Camp, Google, Mountain View CA, July 2009
90. “In-group bias and the evolution of cooperation”, Law, Behavior and the Brain, Gruter Institute for Law and Behavioral Research, Lake Tahoe NV, May 2009
91. “Anti-social punishment and the evolution of cooperation”, Plants and the evolution of cooperation and trading, Harvard Plant Biology Symposium, Cambridge MA, May 2009
92. “When do nice guys really finish first?” International Society for Performance Improvement, Orlando FL, April 2009 [**Funded guest speaker**] - Average rating by participants 4.8/5
93. “Winners don’t punish”, Mind Brain and Behavior Seminar, Harvard University, November 2008
94. “Modeling the evolution of cooperation”, Modeling Social Behavior, National Institutes of Health, Bethesda MD, November 2008
95. “Winners don’t punish”, Japanese Society for Mathematical Biology, Kyoto University, Kyoto, Japan, September 2008
96. “Winners don’t punish”, 12th Experimental Social Sciences Conference, Tokyo Institute of Technology, Ookayama, Japan, September 2008
97. “Winners don’t punish”, Law Behavior and the Brain, Gruter Institute for Law and Behavioral Research, Lake Tahoe NV, May 2008
98. “Altruism, Cooperation and Evolution”, Boston Museum of Science, November 2007
99. “Punishment and cooperation in the Prisoner’s Dilemma”, Research Opportunities in Mathematical Evolution Colloquium, Harvard University, March 2007

Conference talks / posters

100. “Social heuristics and habits of virtue”, Association for Psychological Science, New York NY, May 2015
101. “The Evolution of Intuitive Cooperation”, Society for Personality and Social Psychology, Long Beach CA, Feb 2015
102. “Habits of Virtue: Creating Norms of Cooperation and Defection in the Laboratory”, Society for Personality and Social Psychology, Austin TX, Feb 2014
103. “Institutions build intuitions: Evolving cultures of cooperation and defection in the laboratory”, Society for Experimental Social Psychology, UC Berkeley, September 2013
104. “Spontaneous giving and calculated greed”, Society for Personality and Social Psychology 2013, New Orleans, January 2013
105. “Reward, punishment, and the maintenance of large-scale cooperation”, Society of Experimental Social Psychology, Washington DC, October 2011

106. “Slow to anger and fast to forgive: cooperation in an uncertain world”, Economic Science Association International Meeting 2011, University of Chicago, July 2011
107. “Noise, heterogeneity and the evolution of human cooperation”, Eighth International Conference on Complex Systems, Boston, June 2011
108. “Reward and punishment in repeated games: experimental evidence”, 14th International Symposium on Dynamic Games and Applications, Banff Canada, June 2010 [**Best Student Presentation Award winner**]
109. “The evolution of anti-social punishment”, 14th International Symposium on Dynamic Games and Applications, Banff Canada, June 2010
110. “Currency effects in a dictator game for children” [Poster], Association for Psychological Science Annual Convention, Chicago, May 2008
111. “Costly punishment in the Prisoner’s Dilemma” [Poster], International Ethology Conference in Halifax, Nova Scotia, Canada, August 2007
112. “Modeling Strategies for Capturing Drug-Ion Channel Interactions “ [Poster] Heart Rhythms Society, Boston MA, May 2006
113. Eastern Regional Photosynthesis Conference, Woods Hole MA, April 2004
114. Eastern Regional Photosynthesis Conference, Woods Hole MA, April 2003