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Focus of Research

Evolutionary psychology and cognitive science. Using evolutionary theory to develop computational theories of adaptive information-processing problems. Testing for presence of evolutionarily predicted information-processing mechanisms, their neural basis, and cultural sequelae. Empirical work focuses on cooperation, threat, coalitional psychology, kin detection, incest avoidance, intuitive statistics, computational approach to motivation..

Employment

2000- Professor, Dept. of Psychology, University of California, Santa Barbara
1994-2000 Associate Professor, Dept. of Psychology, University of California, Santa Barbara
1994- Affiliate, Dept. of Anthropology, University of California, Santa Barbara
1994- Co-Director, Center for Evolutionary Psychology, UCSB (1994-present)
1991-1994 Assistant Professor, Dept. of Psychology, University of California, Santa Barbara
1990-1991 Visiting Assistant Professor, Dept. of Psychology, University of California, Santa Barbara
1989-1990 Fellow, Center for Advanced Study in the Behavioral Sciences. Stanford, CA.

Education

Harvard University

Cambridge, Massachusetts

A.B. Biology, 1979 (magna cum laude).

Advisor: Robert L. Trivers. Senior Honors Thesis: "Mental Rotation in Pigeons", R.J. Herrnstein, advisor.

A.M. Psychology, 1984.

Ph.D. Psychology, 1985. Department of Psychology & Social Relations.

Major: Cognition. Minors: Cognitive development, Evolutionary biology. Adviser: Sheldon H. White.

Stanford University

Stanford, California

Postdoctoral Scholar, Department of Psychology (1985-9).

Focus: Evolution and cognition. Adviser: Roger N. Shepard.

Honors

2006 *Templeton Fellow*, Arizona State University.

2005 Recipient, *NIH Director's Pioneer Award* (top 13 out of ~840 biomedical nominees)

2004 Finalist, *NIH Director's Pioneer Award* (top 21 out of 1300+ biomedical nominees)

1999-2000 Fellow, *John Simon Guggenheim Memorial Foundation*.

1998 *G. Stanley Hall Lecturer, American Psychological Association*

1995 Elected Fellow, *American Psychological Society*

1993 *American Psychological Association Distinguished Scientific Award for an Early Career Contribution to Psychology in the area of Human Learning /Cognition.*

1989-1990 Fellow, *Center for Advanced Study in the Behavioral Sciences*
 1988 *American Association for the Advancement of Science Prize for Behavioral Science Research* (for *The logic of social exchange: Has natural selection shaped how humans reason?*)
 Fellow, *Zentrum fur interdisziplinäre Forschung*, Universität Bielefeld, Germany (Oct.-Dec. 1991)
National Research Service Award (NIMH sponsored research training program; full support for 1985-1986 academic year, at Department of Psychology, Stanford University.)
 Radcliffe Class Day Orator, Harvard University Commencement 1979.

Center for Evolutionary Psychology

(*Co-founder, Co-director*). The Center for Evolutionary Psychology at UCSB trains graduate students and other researchers, and coordinates research teams with expertise in evolutionary biology, psychology, anthropology, and neuroscience to identify (1) adaptive problems our hunter-gatherer ancestors faced, (2) the psychological mechanisms that evolved to solve these problems, (3) their neurological basis, and (4) how they generate culture and impose systematic patterns of social behavior both within and across cultures. Specific activities include laboratory research in the US; neuroscience collaborations (e.g., UC Davis Center for Neuroscience; Institute of Neurology, University of London); and the Human Universals Project, which attempts to document psychological universals through coordinating parallel experimental studies cross-culturally, including at the Center's primary field site among the Shiwiar and Achuar in the Amazonian rainforest of Ecuador. Center Fellows have included Steven Pinker (who wrote *How the Mind Works* during his year here) and Pascal Boyer (CNRS and University of Lyon, France).

Conferences, Symposiums, Institutions Organized; Special Appointments

2008	Co-organizer, Evolution and the Sociality of Mind, February 23-24, 2008. Joint conference of the Center for the Sociality of Mind, Hokkaido, Japan, and the Center for Evolutionary Psychology, UCSB
2006	Organizer, UCSB-UCLA Evolution, Mind, & Behavior Conference, November 4, 2006
2006	Organizer, UCSB-UCLA Evolution, Mind, & Behavior Conference, February 4, 2006
2005	Organizer, UCSB-UCLA Evolution, Mind, & Behavior Conference, May 7, 2005
2005	Organizer, UCSB-UCLA Evolution, Mind, & Behavior Conference, Nov 4, 2004
2004	Advisory Board, Institute of Cognition and Culture, Queens University, Belfast, Ireland
2004	Organizer, UCSB-UCLA Evolution, Mind, & Behavior Conference, Feb 7, 2004
2003	Organizer, UCSB-UCLA Evolution, Mind, & Behavior Conference, May 4, 2003
2002	Organizer, UCSB-UCLA Evolution, Mind, & Behavior Conferences, February 2, 2002, November 4, 2002
2001	Founding member, UCLA-UCSB Evolution, Mind, and Behavior Program (at UCLA: Human Nature and Society Program)
2001-	Editorial Board, <i>Journal of Cognition and Culture</i>
1999	<i>Imagination and the Adapted Mind: The Prehistory and Future of Poetry, Fiction, and Related Arts.</i> (An international conference, UCSB August 24-29). Co-organizer (with Tooby and Hernadi).

1999-2006	Max Planck Society: Member, International Scientific Advisory Committee (<i>Beirat</i>) for the Max Planck Institute for Human Development, Berlin.
1998	1998 <i>McDonnell-Pew Summer Institute for Cognitive Neuroscience</i> . Co-organized 2-day session, “Evolutionary Approaches to Cognitive Neuroscience” (with Tooby)
1997-2006	Editorial Board, <i>Evolution and Human Behavior</i>
1995	1995 <i>Human Behavior & Evolution Society Meetings</i> , UCSB. Program Co-Chair (with Tooby), also Co-Host.
1995	Miniconference on Evolution, Memory, and Consciousness (UC Davis Center for Neuroscience). Co-organizer (with Tulving, Gazzaniga, & Tooby)
1994-	Center for Evolutionary Psychology, UCSB. Founded; also Co-Director.
1994	1994 <i>McDonnell-Pew Summer Institute for Cognitive Neuroscience</i> . Co-organized one week session, “Evolutionary Cognitive Neuroscience” (with Gazzaniga & Tooby)
1994	Max Planck Society, Presidential Committee Colloquium on Ethology/Anthropology, Heidelberg, Germany. Advised cmte on formation of 8 new Max Planck Institutes.
1993	1993 <i>McDonnell-Pew Summer Institute for Cognitive Neuroscience</i> . Co-organized 2-day session, “Evolutionary Approaches to Cognitive Neuroscience” (with Tooby)
1992-7	Editorial Board, <i>Cognition</i> .
1992-5	Governing board, <i>Human Behavior and Evolution Society</i>
1990-	The Psychonomic Society (elected member)
1990-4	Editorial Board, <i>Evolution and Cognition</i> .

Teaching Interests: Cognition, human reasoning, cognitive development, social cognition, evolutionary psychology, introductory psychology

Publications

Books

Barkow, J., Cosmides, L. & Tooby, J., editors. (1992). *The adapted mind: Evolutionary psychology and the generation of culture*. New York: Oxford University Press.

Cosmides, L. & Tooby, J. (1995). Section editors, “Evolutionary Approaches”. *The cognitive neurosciences*, (M. S. Gazzaniga, Ed.). Cambridge, MA: MIT Press.

Cosmides, L. & Tooby, J. (2000). Section editors, “Evolution (Section X)”. *The new cognitive neurosciences, Second edition*, (M. S. Gazzaniga, Ed.). Cambridge, MA: MIT Press. Chapters 80-87: Tooby & Cosmides, Gallistel; Fernald & White; Sherry; Preuss; Baron-Cohen; Leslie; Cosmides & Tooby.

Cosmides, L. & Tooby, J. (in press). *Universal Minds: Explaining the new science of evolutionary psychology*. (Darwinism Today Series). London: Weidenfeld & Nicolson. New Haven: Yale University Press.

Tooby, J. & Cosmides, L. (in press). *Evolutionary psychology: Foundational papers*. Cambridge, MA: MIT Press.

Articles For PDFs [click here](#) or visit www.psych.ucsb.edu/research/cep/publist.htm

Cosmides, L. & Tooby, J. (1981). Cytoplasmic inheritance and intragenomic conflict. *Journal of Theoretical Biology*, 89, 83-129.

Cosmides, L. (1983). Invariances in the acoustic expression of emotion during speech. *Journal of Experimental Psychology: Human Perception and Performance*, 9, 864-881.

Cosmides, L. (1985). Deduction or Darwinian Algorithms? An explanation of the "elusive" content effect on the Wason selection task. Doctoral dissertation, Harvard University. *University Microfilms #86-02206*.

Cosmides, L. & Tooby, J. (1987). From evolution to behavior: Evolutionary psychology as the missing link. In J. Dupre (Ed.), *The latest on the best: Essays on evolution and optimality*. Cambridge, MA: The MIT Press.

Tooby, J. & Cosmides, L. (1988). The evolution of war and its cognitive foundations. *Institute for Evolutionary Studies Technical Report #88-1*.

Tooby, J. & Cosmides, L. (1989). Evolutionary psychology and the generation of culture, Part I. Theoretical considerations. *Ethology & Sociobiology*, 10, 29-49.

Cosmides, L. & Tooby, J. (1989). Evolutionary psychology and the generation of culture, Part II. Case study: A computational theory of social exchange. *Ethology & Sociobiology*, 10, 51-97.

Tooby, J. & Cosmides, L. (1989). The innate versus the manifest: How universal does universal have to be? *Behavioral and Brain Sciences*, 12, 36-37.

Cosmides, L. (1989). The logic of social exchange: Has natural selection shaped how humans reason? Studies with the Wason selection task. *Cognition*, 31, 187-276.

Tooby, J. & Cosmides, L. (1989). Kin selection, genic selection, and information-dependent strategies. *Behavioral and Brain Sciences*, 12, 542-544.

Tooby, J. & Cosmides, L. (1989). Adaptation versus phylogeny: The role of animal psychology in the study of human behavior. *International Journal of Comparative Psychology*, 2, 105-118.

Tooby, J. & Cosmides, L. (1989). Evolutionary psychologists need to distinguish between the evolutionary process, ancestral selection pressures, and psychological mechanisms. *Behavioral and Brain Sciences*, 12(4), 174-175.

- Tooby, J. & Cosmides, L. (1990). On the universality of human nature and the uniqueness of the individual: The role of genetics and adaptation. *Journal of Personality*, 58, 17-67.
- Tooby, J. & Cosmides, L. (1990). The past explains the present: Emotional adaptations and the structure of ancestral environments. *Ethology and Sociobiology*, 11, 375-424.
- Tooby, J. & Cosmides, L. (1990). Toward an adaptationist psycholinguistics. *Behavioral and Brain Sciences*, 13, 760-762.
- Cosmides, L. & Tooby, J. (1991). Reasoning and natural selection. *Encyclopedia of Human Biology*, vol. 6. San Diego: Academic Press.
- Cosmides, L. & Tooby, J. (1992). Cognitive adaptations for social exchange. In J. Barkow, L. Cosmides, & J. Tooby (Eds.), *The adapted mind: Evolutionary psychology and the generation of culture*. New York: Oxford University Press.
- Tooby, J. & Cosmides, L. (1992). The psychological foundations of culture. In J. Barkow, L. Cosmides, & J. Tooby (Eds.), *The adapted mind: Evolutionary psychology and the generation of culture*. New York: Oxford University Press.
- Cosmides, L., Tooby, J. & Barkow, J. (1992). Evolutionary psychology and conceptual integration. In J. Barkow, L. Cosmides, & J. Tooby (Eds.), *The adapted mind: Evolutionary psychology and the generation of culture*. New York: Oxford University Press.
- Cosmides, L. & Tooby, J. (1993). The lords of many domains. *The Times Higher Education Supplement, London*. (June 25).
- Cosmides, L. & Tooby, J. (1994). Origins of domain-specificity: The evolution of functional organization. In L. Hirschfeld & S. Gelman (Eds.), *Mapping the Mind: Domain-specificity in cognition and culture*. New York: Cambridge University Press.
- Cosmides, L. & Tooby, J. (1994). Beyond intuition and instinct blindness: The case for an evolutionarily rigorous cognitive science. *Cognition*, 50, 41-77.
- Cosmides, L. & Tooby, J. (1994). Better than rational: Evolutionary psychology and the invisible hand. *American Economic Review (May)*, 327-332.
- Cosmides, L. & Tooby, J. (Section editors). (1995). Section Introduction: Evolutionary approaches to cognitive neuroscience. In M. Gazzaniga (Ed.), *The cognitive neurosciences*. Cambridge, MA: MIT Press.
- Tooby, J. & Cosmides, L. (1995). Mapping the evolved functional organization of mind and brain. In M. Gazzaniga (Ed.), *The cognitive neurosciences*. Cambridge, MA: MIT Press.

- Cosmides, L. & Tooby, J. (1995). From function to structure: The role of evolutionary biology and computational theories in cognitive neuroscience. In M. Gazzaniga (Ed.), *The cognitive neurosciences*. Cambridge, MA: MIT Press.
- Cosmides, L. & Tooby, J. (1995). From evolution to adaptations to behavior: Toward an integrated evolutionary psychology. In R. Wong (Ed.), *Biological perspectives on motivated activities*. Norwood, NJ: Ablex.
- Tooby, J. & Cosmides, L. (1995). The language of the eyes as an evolved language of mind. Forward to: *Mindblindness: An essay on autism and theory of mind*. By Simon Baron-Cohen. Cambridge, MA: MIT Press.
- Cosmides, L. & Tooby, J. (1996). Are humans good intuitive statisticians after all?: Rethinking some conclusions of the literature on judgment under uncertainty. *Cognition*, 58, 1-73.
- Cosmides, L. & Tooby, J. (1996). A logical design for the mind? (Review of *The Psychology of Proof*, by Lance J. Rips, 1994 MIT Press.) *Contemporary Psychology*, 41, 448-450.
- Tooby, J. & Cosmides, L. (1996). Friendship and the Banker's Paradox: Other pathways to the evolution of adaptations for altruism. In W. G. Runciman, J. Maynard Smith, & R. I. M. Dunbar (Eds.), *Evolution of Social Behaviour Patterns in Primates and Man. Proceedings of the British Academy*, 88, 119-143.
- Cosmides, L. & Tooby, J. (1996). Think again. In: Betzig, L. (Ed.) *Human Nature: A Critical Reader* (pp. 292-294). NY: Oxford University Press
- Cosmides, L. & Tooby, J. (1997). The multimodular nature of human intelligence. In A. Schiebel & J. W. Schopf (Eds.), *Origin and evolution of intelligence*. Center for the Study of the Evolution and Origin of Life, UCLA. (pp. 71-101).
- Cosmides, L. & Tooby, J. (1997). Dissecting the computational architecture of social inference mechanisms. In: *Characterizing human psychological adaptations* (Ciba Foundation Symposium #208). Chichester: Wiley. (pp. 132-156).
- Thornhill, N., Cosmides, L., Maryanski, A., Meyer, P., Tooby, J., & Turner, J. (1997). Evolutionary theory and human social institutions: Psychological foundations. In P. Weingart, P. Richerson, S. Mitchell, & S. Maasen (Eds.), *Human by nature: Between biology and the social sciences*. (pp. 201-252). Mahwah, NJ: Erlbaum.
- Turner, J., Borgerhoff Mulder, M., Cosmides, L., Giesen, B., Hodgson, G., Maryanski, A., Shennan, S., Tooby, J., & Velichkovsky, B. (1997). Looking back: Historical and theoretical context of present practice. In P. Weingart, P. Richerson, S. Mitchell, & S. Maasen (Eds.), *Human by nature: Between biology and the social sciences*. (pp. 17-64). Mahwah, NJ: Erlbaum.
- Stone, V. E., Baron-Cohen, S., Cosmides, L., Tooby, J. and Knight, R. T., 1997. Selective impairment of social inference abilities following orbitofrontal cortex damage.

Proceedings of the Nineteenth Annual Conference of the Cognitive Science Society, M. G. Shafto and P. Langley (Eds.), London: Lawrence Erlbaum, p. 1062.

- Brase, G., Cosmides, L., & Tooby, J. (1998). Individuation, Counting, and Statistical Inference: The role of frequency and whole object representations in judgment under uncertainty. *Journal of Experimental Psychology: General*, *127*, 1-19.
- Tooby, J., & Cosmides, L. (1998). Start with Darwin... In M. S. Gazzaniga & J. Altman (Eds.), *Brain and Mind: Evolutionary Perspectives*. Vol. 5, pp.10-15. Strasbourg, France: Human Frontier Science Program.
- Tooby, J. & Cosmides, L. (1998). Evolutionizing the cognitive sciences: A reply to Shapiro and Epstein. *Mind & Language*, *13*(2), 195-204.
- Cosmides, L. & Tooby, J. (1999). Evolutionary psychology. *MIT Encyclopedia of Cognitive Science*. (pp. 294-297.) Cambridge, MA: MIT Press.
- Cosmides, L. & Tooby, J. (1999). Towards an evolutionary taxonomy of treatable conditions. *Journal of Abnormal Psychology*, *108*, 453-464.
- Rode, C., Cosmides, L., Hell, W., & Tooby, J. (1999). When and why do people avoid unknown probabilities in decisions under uncertainty? Testing some predictions from optimal foraging theory. *Cognition*, *72*, 269-304.
- Cosmides, L. & Tooby, J. (2000). The cognitive neuroscience of social reasoning. In M. S. Gazzaniga (Ed.), *The New Cognitive Neurosciences, Second Edition*. Cambridge, MA: MIT Press. (Chapter 87, pp. 1259-1270.)
- Tooby, J. & Cosmides, L. (2000). Toward mapping the evolved functional organization of mind and brain. In M. S. Gazzaniga (Ed.), *The New Cognitive Neurosciences, Second Edition*. Cambridge, MA: MIT Press. (Chapter 80, pp. 1167-1178.)
Reprinted, 2005, in *Conceptual Issues in Evolutionary Biology*, Third Edition. E. Sober (Ed.). Cambridge, MA: MIT Press.
- Cosmides, L. & Tooby, J. (2000). Introduction. Evolution, Section X (Chapters 80-87). In M. S. Gazzaniga (Ed.), *The New Cognitive Neurosciences, Second Edition*. Cambridge, MA: MIT Press. (pp. 1163-1166.)
- Cosmides, L. & Tooby, J. (2000). Evolutionary psychology and the emotions. In M. Lewis & J. M. Haviland-Jones (Eds.), *Handbook of Emotions, 2nd Edition*. (pp. 91-115.) NY: Guilford.
- Cosmides, L. & Tooby, J. (2000). Consider the source: The evolution of adaptations for decoupling and metarepresentation. In D. Sperber (Ed.), *Metarepresentations: A multidisciplinary perspective*. (pp. 53-115.) Vancouver Studies in Cognitive Science. NY: Oxford University Press.

- Fiddick, L., Cosmides, L., & Tooby, J. (2000). No interpretation without representation: The role of domain-specific representations and inferences in the Wason selection task. *Cognition*, *77*, 1-79.
- Tooby, J. & Cosmides, L. (2000). Cognitive adaptations for kin-based coalitions: human kinship systems at the intersection between collective action and kin selection. Comment on *Group Nepotism and Human Kinship* by Doug Jones. *Current Anthropology*, *41*(5), 803-804.
- Cosmides, L. & Tooby, J. (2001). Unraveling the enigma of human intelligence: Evolutionary psychology and the multimodular mind. In R. J. Sternberg & J. C. Kaufman (Eds.), *The evolution of intelligence*. (pp. 145-198). Hillsdale, NJ: Erlbaum.
- Tooby, J. & Cosmides, L. (2001). Does beauty build adapted minds? Toward an evolutionary theory of aesthetics, fiction and the arts. *SubStance, Issue 94/95*, *30*(1), 6-27.
Translated and reprinted, 2006 as "Schönheit und mentale Fitness: Auf dem Weg zu einer evolutionären Ästhetik" in *Heuristiken der Literaturwissenschaft (Heuristics in Literary Studies)*, U. Klein, K. Mellmann, & S. Metzger (Eds.). Paderborn, Germany: Verlag GmbH.
- Duchaine, B., Cosmides, L., & Tooby, J. (2001). Evolutionary psychology and the brain. *Current Opinion in Neurobiology*, *11*(2), 225-230. (doi:10.1016/S0959-4388(00)00201-4)
- Klein, S. B., Cosmides, L., Tooby, J. & Chance, S. (2001). Priming exceptions: A test of the scope hypothesis in naturalistic trait judgments. *Social Cognition*, *19*, 443-468.
- Kurzban, R., Tooby, J. & Cosmides, L. (2001). Can race be erased?: Coalitional computation and social categorization. *Proceedings of the National Academy of Sciences*, *98*(26), 15387-15392. (December 18, 2001; Epub 2001 Dec 11. PMID: 11742078)
www.pnas.org/cgi/reprint/98/26/15387.pdf
- Klein, S., Cosmides, L., Tooby, J., & Chance, S. (2002). Decisions and the evolution of memory: Multiple systems, multiple functions. *Psychological Review*, *109*, 306-329.
- Price, M. E., Cosmides, L. & Tooby, J. (2002). Punitive sentiment as an anti-free rider psychological device. *Evolution and Human Behavior*, *23*, 203-231. (doi:10.1016/S1090-5138(01)00093-9)
- Klein, S., Rozendahl, K., & Cosmides, L. (2002). A social-cognitive neuroscience analysis of the Self. *Social Cognition*, *20*, 104-132.
- Klein, S., Cosmides, L., Costabile, K., & Mei, L. (2002). Is there something special about the self? A neuropsychological case study. *Journal of Research in Personality*, *36*, 490-506.
- Sugiyama, L., Tooby, J. & Cosmides, L. (2002). Cross-cultural evidence of cognitive adaptations for social exchange among the Shiwiari of Ecuadorian Amazonia. *Proceedings of the National Academy of Sciences*, *99*(17), 11537-11542.

Reprinted, 2003 in *The Functional Mind*, D. Kenrick & C. Luce (Eds.). Columbus, Ohio: Allyn & Bacon.

Stone, V., Cosmides, L., Tooby, J., Kroll, N. & Knight, R. (2002). Selective Impairment of Reasoning About Social Exchange in a Patient with Bilateral Limbic System Damage. *Proceedings of the National Academy of Sciences*, 99(17), 11531-11536. (August 20, 2002; Epub 2002 Aug 12, PMID: 12177408) www.pnas.org/cgi/reprint/122352699v1.pdf

Cosmides, L. & Tooby, J. (2003). Evolutionary psychology: Theoretical Foundations. In *Encyclopedia of Cognitive Science*. London: Macmillan.

Sell, A., Hagen, E., Cosmides, L. & Tooby, J. (2003). Evolutionary Psychology: Applications and Criticisms. In *Encyclopedia of Cognitive Science*. London: Macmillan.

Lieberman, D., Tooby, J. & Cosmides, L. (in press). The evolution of human incest avoidance mechanisms: An evolutionary psychological approach. In A. Wolf & J. P. Takala (eds.), *Evolution and the Moral Emotions: Appreciating Edward Westermarck*. Stanford, CA: Stanford University Press.

Lieberman, D., Tooby, J. & Cosmides, L. (2003). Does morality have a biological basis? An empirical test of the factors governing moral sentiments relating to incest. *Proceedings of the Royal Society London (Biological Sciences)*, 270(1517), 819-826. (2003 April 22, PMID: 12737660)

Klein, S., Cosmides, L. & Costabile, K. (2003). Preserved knowledge of self in a case of Alzheimer's dementia. *Social Cognition*, 21(2), 157-165

Cosmides, L., Tooby, J. & Kurzban, R. (2003). Perceptions of race. *Trends in Cognitive Sciences* 7(4), 173-179 (April). PMID: 12691766

Cosmides, L. & Tooby, J. (2003). Review of *Religion Explained: The evolutionary origins of religious thought* (by Pascal Boyer). *Journal of Cognition and Culture* 3(1), pp. 109-113.

Tooby, J., Cosmides, L. & Barrett, H. C. (2003). The second law of thermodynamics is the first law of psychology: Evolutionary developmental psychology and the theory of tandem, coordinated inheritances. *Psychological Bulletin*, 129(6), 858-865.

Tooby, J. & Cosmides, L. (2003). The design of the maternal motivation system (Comment on A. Wolf). *Current Anthropology*, 44. S45-46

Cosmides, L. & Tooby, J. (2004). Knowing thyself: The evolutionary psychology of moral reasoning and moral sentiments. In R. E. Freeman and P. Werhane (Eds.), *Business, Science, and Ethics*. The Ruffin Series No. 4. (pp. 93-128). Charlottesville, VA: Society for Business Ethics.

- Cosmides, L. & Tooby, J. (2005). Social exchange: The evolutionary design of a neurocognitive system. In Michael S. Gazzaniga, (Ed.), *The New Cognitive Neurosciences, III*. (pp. 1295-1308). Cambridge, MA: MIT press.
- Cosmides, L. & Tooby, J. (in press). Evolutionary psychology. *Encyclopedia of Libertarianism*. Washington, D.C.: Cato Institute Publications.
- Klein, S., Cosmides, L., Murray, E. & Tooby, J. (2004) On the acquisition of knowledge about personality traits: Does learning about the self engage different mechanisms than learning about others? *Social Cognition*, 22(4), 367-390.
- Klein, S., German, T., Cosmides, L. & Gabriel, R. (2004). A theory of autobiographical memory: Necessary components and disorders resulting from their loss. *Social Cognition*, 22(5), 460-490.
- Cosmides, L. & Tooby, J. (May 2004). Can a clash of cultures undermine this cross-border merger? *Harvard Business Review*, 82(5), 40.
- Tooby, J., Cosmides, L. & Barrett, H. C. (2005). Resolving the debate on innate ideas: Learnability constraints and the evolved interpenetration of motivational and conceptual functions. In Carruthers, P., Laurence, S. & Stich, S. (Eds.), *The Innate Mind: Structure and Content* (pp. 305-337). NY: Oxford University Press.
- Tooby, J. & Cosmides, L. (2005). Reply to Berlinski's "On the Origin of the Modern Mind". *Commentary*, 119(2 February), 14-15.
- Cosmides, L. & Tooby, J. (2005). Neurocognitive adaptations designed for social exchange. In D. M. Buss (Ed.), *The Handbook of Evolutionary Psychology* (pp. 584-627). Hoboken, NJ: Wiley.
- Tooby, J. & Cosmides, L. (2005). Conceptual foundations of evolutionary psychology. In D. M. Buss (Ed.), *The Handbook of Evolutionary Psychology* (pp. 5-67). Hoboken, NJ: Wiley.
- Cosmides, L., Tooby, J., Fiddick, L. & Bryant, G. (2005). Detecting cheaters. *Trends in Cognitive Sciences*, 9(11), 505-506.
- Cosmides, L. & Tooby, J. (2006). Evolutionary psychology, moral heuristics, and the law. In G. Gigerenzer & Christoph Engel (Eds.), *Heuristics and the Law* (Dahlem Workshop Report 94). Cambridge, MA: MIT Press.
- Tooby, J., Cosmides, L., & Price, M. (2006). Cognitive adaptations for *n*-person exchange: The evolutionary roots of organizational behavior. *Managerial and Decision Economics*, 27, 103-129.
- Cosmides, L. (2006). The cognitive revolution: The next wave. *APS Observer* 19(4), 7, 23.

- Barrett, H. C., Cosmides, L., & Tooby, J. (2006). The hominid entry into the cognitive niche. (pp. 241-248). In S. Gangestad & J. Simpson (Eds.), *The Evolution of Mind*. NY: Guilford.
- Ermer, E., Cosmides, L. & Tooby, J. (2006). Functional specialization and the adaptationist program. (pp. 153-160). In S. Gangestad & J. Simpson (Eds.), *The Evolution of Mind*. NY: Guilford.
- Tooby, J. & Cosmides, L. (2006). The evolved architecture of hazard management: risk detection reasoning and the motivational computation of threat magnitudes. Comment on Boyer & Lienard. *Behavioral and Brain Sciences* 29(6), 631-633.
- Ermer, E., Guerin, S., Cosmides, L., Tooby, J., Miller M. (2006). Theory of Mind Broad and Narrow: Reasoning about social exchange engages TOM areas, precautionary reasoning does not. *Social Neuroscience*, 1(3-4), 196-219. (Co-published as chapter in *Theory of Mind*. (R. Saxe & S. Baron-Cohen, eds.). Psychology Press/Taylor & Francis Group.)
- Lieberman, D., Tooby, J. & Cosmides, L. (2007). The architecture of human kin detection. *Nature*, 445 (7129), 727-731. (15 February 2007) + Supplementary Information.
- Tooby, J. & Cosmides, L. (2007). Evolutionary psychology, ecological rationality, and the unification of the behavioral sciences. *Behavioral and Brain Sciences* 30(1), 42-43.
- Tooby, J. & Cosmides, L. (2007) Evading truth: Review of *Scandalous Knowledge: Science, Truth and the Human*, by Barbara Herrnstein Smith. *The Quarterly Review of Biology*, 82(1), 35.
- Ermer, E., Cosmides, L. & Tooby, J. (2007). Cheater detection mechanism. In K. Vohs & R. Baumeister (Eds.), *Encyclopedia of Social Psychology*. Sage Publications.
- New, J., Cosmides, L. & Tooby, J. (2007). Category-specific attention to animals reflects ancestral priorities not expertise. *Proceedings of the National Academy of Sciences*, 104(42), 16598-16603.
- Cosmides, L. & Tooby, J. (2008). Can a general deontic logic capture the facts of human moral reasoning? How the mind interprets social exchange rules and detects cheaters. In W. Sinnott-Armstrong (Ed.), *Moral psychology*. (pp. 53-119) Cambridge, MA: MIT Press.
- Cosmides, L. & Tooby, J. (2008). When falsification strikes: A reply to Fodor. In W. Sinnott-Armstrong (Ed.), *Moral psychology*. (pp. 143-164) Cambridge, MA: MIT Press.
- Cosmides, L. & Tooby, J. (2008). Can evolutionary psychology assist logicians? A reply to Mallon. In W. Sinnott-Armstrong (Ed.), *Moral psychology*. (pp. 131-136) Cambridge, MA: MIT Press.

Ermer, E., Cosmides, L. & Tooby, J. (2008). Relative status regulates risky decision-making about resources in men: Evidence for the co-evolution of motivation and cognition. *Evolution and Human Behavior* 29, 106-118.

Sznycer, D., Tooby, J. & Cosmides, L. (in press). Evolutionary psychology. P.D. Hogan (Ed.) *The Cambridge Encyclopedia of the Language Sciences*. Cambridge: Cambridge University Press.

Lim, J., Tooby, J. & Cosmides, L. (in press). Adaptation. P.D. Hogan (Ed.) *The Cambridge Encyclopedia of the Language Sciences*. Cambridge: Cambridge University Press.

Tooby, J., Cosmides, L., Sell, A., Lieberman, D. & Sznycer, D. (in press). Internal regulatory variables and the design of human motivation: A computational and evolutionary approach. In Andrew J. Elliot (Ed.) *Handbook of approach and avoidance motivation*. Mahwah, NJ: Lawrence Erlbaum Associates.

Tooby, J. & Cosmides, L. (in press) The evolutionary psychology of the emotions and their relationship to internal regulatory variables. In: (M. Lewis & J. M. Haviland-Jones, eds.) *Handbook of Emotions*, 3rd Edition. NY: Guilford.

Cosmides, L. & Tooby, J. (in press; originally 1994). Beyond intuition and instinct blindness: Toward an evolutionarily rigorous cognitive science. *Cognition*, 50, 41-77. Reprinted in: *Reasoning: Studies of human inference and its foundations*. (eds. Jonathan Adler and Lance Rips). Cambridge University Press.

Keynote, Plenary, & Public Addresses

L.B.S. Leakey Foundation, California Academy of Sciences. Allen O'Brien Memorial Lecture (with Tooby): The evolution of human reasoning "instincts". San Francisco, CA, November 5, 1992.

Tagung experimentell arbeitender Psychologen. Plenary Address: Evolutionary psychology. Munster, Germany, April 5, 1993.

Evolution and the Human Sciences (London School of Economics). Plenary address: The evolution of domain-specific reasoning. London, June 25, 1993.

Human Behavior and Evolution Society. Plenary Address (with Tooby): Cognitive adaptations for threat, cooperation and war. Binghamton, NY, August 6, 1993.

McDonnell-Pew Symposium on Cognitive Neuroscience. Rancho Santa Fe, CA, May 28, 1994. Plenary address (with Tooby): Cognitive neuroscience of social reasoning.

American Psychological Association. Los Angeles, CA, August, 1994. Distinguished Scientific Award Address: The emergence of evolutionary psychology.

Origin and Evolution of Human Intelligence. Center for the Study of Evolution and the Origin of Life, UCLA, March 15, 1996. Public Address (with Tooby): The multimodular nature of human intelligence.

The Wellcome Centre for Medical Science / Ciba Foundation. Characterizing Human Psychological Adaptations. London, England, November 1, 1996. Public Address: The anatomy of human reasoning instincts.

British Psychological Society. Edinburgh, Scotland, April 3, 1997. Keynote address: Evolutionary Psychology.

1996-1997 Jacob Marschak Interdisciplinary Colloquium on Mathematics in the Behavioral Sciences. UCLA, May 23, 1997. Public Address (with Tooby): Adaptation and evolution of decision-making processes and human reasoning.

American Medical Women's Association. Santa Barbara Chapter, June 17, 1998. Evolutionary psychology.

American Psychological Association. San Francisco, CA, August 1998. *G. Stanley Hall Lecture*: Evolutionary psychology.

Chilean Engineering Institute / Chilean Academy of Sciences. Santiago, Chile, October, 2001. *Neuvos Paradigmas a Comienzos del Tercer Milenio* (New Paradigms at the Beginning of the Third Millennium). Keynote address (with Tooby): "Evolutionary psychology: A new model for the social sciences".

Darden Graduate School of Business Administration, University of Virginia. Charlottesville, VA, April 20, 2002. Olsson Center for Applied Ethics, Biennial Ruffin Lectures: *Business, Ethics, and Science*. Ruffin Lecture: Breaking faith: The evolutionary psychology of moral reasoning and moral sentiments.

German Psychological Society (Kongress der Deutschen Gesellschaft für Psychologie), Humboldt University, Berlin, Germany, September 22-26, 2002. Keynote address – *The Wolfgang Köhler Memorial Lecture*: Cognitive adaptations for social exchange.

Rice University, Scientia Lecture. Houston, Texas, February 18, 2003. Scientia: an Institute for the History of Science and Culture. (Series topic: Evolutionary biology as paradigm science). Cognitive adaptations for social exchange.

American Neuropsychiatric Association. Bal Harbour, Florida. February 22, 2004. Evolutionary Psychology: Cognition, Emotion, and Adaptive Specializations. (Symposium on *Cognition, Emotion and the Interactive Brain*.)

The Psychology and Biology of Morality, Dartmouth. Hanover, NH, May 23, 2004. The evolutionary psychology of moral reasoning and moral sentiments.

Women Leaders in Science and Mathematics, Vassar College. Poughkeepsie, NY, February 17, 2005. Evolutionary psychology and the human mind.

Carol G. Simon Lecturer, John Dewey Honors Program, University of Vermont. Burlington, VT, April 13-14, 2005. April 13: Cognitive adaptations for social exchange. April 14: Can race be erased? Coalitional psychology and social categorization.

Evolutionary Psychology Colloquium Series, Purdue University. West Lafayette, IN. April 29, 2005. Cognitive adaptations for social exchange.

Human Behavior and Evolution Society. Plenary Address (with Tooby): The Functional Architecture of Human Motivation. Austin, Texas, June 3, 2005.

Western Psychological Association. Invited address: Can race be erased? The evolutionary psychology of coalitional alliances and social categorization. Palm Springs, CA, April 28, 2006.

XI Brazilian Symposium on Research and Scientific Exchange in Psychology. Plenary address: Can race be erased? The evolutionary psychology of coalitional alliances and social categorization. Florianopolis (Santa Catalina), Brazil. May 16, 2006.

Symposium on Cultural and Adaptive Bases of Human Sociality (*Hokkaido University Center for the Study of the Ecological Foundations of the Mind*). Keynote address: Cognitive adaptations for social exchange. Tokyo, Japan. September 9, 2006.

Transhumanism and Human Nature, Templeton Foundation. Templeton Fellow, Public address: Are we already transhuman?: Evolutionary psychology and human nature. Arizona State University, Tempe, AZ, October 10, 2006.

2007 Martin F. Fritz Lecture, Department of Psychology, Iowa State University. Public address: Cognitive adaptations for social exchange. April 3, 2007.

Human Mind, Human Kind: Interdisciplinary Conference on Human Characteristics (University of Aarhus, Aarhus, Denmark). Keynote address: Cognitive adaptations for social exchange. August 16, 2007.

Colloquia and Conference Papers (selected)

Institute for Humane Studies, Social Change Workshop. UC Berkeley, March 29, 2008. *Theme: Institutions, Behavior, and Development* Human nature and society: Using evolutionary psychology to understand institutions.

Southwest Economic Theory Conference, University of California, Santa Barbara. March 1, 2008. The architecture of kin detection: Internal regulatory variables and economic theory (with Tooby).

Human Behavior and Evolution Society, College of William & Mary, Williamsburg, VA, May 30-June 3, 2007.

- (1) Do humans have an evolved “Theory of Group Mind”? (Tooby & Cosmides)
- (2) Recalibrational emotions and welfare trade-off ratios: Cooperation in anger, guilt, gratitude, pride and shame. (Sznycer, Gibson Price, Tooby, Cosmides)
- (3) Is “Accent” a dedicated dimension of agent representation? (Pietraszewski, Schwartz, Cosmides, Tooby)
- (4) Violent Yells Dissected: Physical Strength is Revealed in the Voice and Enhanced during Anger. (Sell, Tooby, Cosmides)
- (5) Regulation of Resource Division by Coalitional Status (Ermer, Cosmides, Tooby)
- (6) Welfare Tradeoff Ratios and Social Support (Poster). (Sznycer, Gibson Price, Tooby, Cosmides)

Iowa State University, Department of Psychology. (i) The architecture of human motivation: A computational and evolutionary-functional approach. (ii) Can race be erased? Evolutionary psychology and coalitional alliances. Ames, Iowa, April 2, 2007.

Arizona State University, Psychology Department Colloquium. Can race be erased? Evolutionary psychology and coalitional alliances. Tempe, AZ, October 12, 2006.

Transhumanism and Human Nature Colloquium Templeton Foundation. Arizona State University, Tempe, AZ. Cognitive adaptations for social exchange: A case study in examining human nature. October 9, 2006.

Kyoto University, Graduate School of Human and Environmental Studies. Colloquium: Can race be erased? Evolutionary psychology and coalitional alliances. Kyoto, Japan, September 5, 2006.

Institute for Humane Studies, Social Change Workshop. Stanford University, Stanford, CA, June 25, 2006. *Theme: Human Nature and Social Change.* Lecture #1: Human nature and society: Using evolutionary psychology to understand institutions. Lecture #2: The evolutionary psychology of coalitions and collective action.

Human Behavior and Evolution Society, University of Pennsylvania, Philadelphia, PA, June 7-11, 2006. Papers presented:

- (1) The role of “outrages” in the evolved psychology of intergroup conflict. (with Tooby & Thrall)
- (2) Anger expressions dissected: Why does his face look like that? (with Sell & Tooby).
- (3) Free riders and incompetents: Psychologically distinct categories. (with Delton, Robertson, & Tooby)
- (4) ‘Erasing race’ with cooperation: Tracking down the dynamics of social alliance representations. (with Pietraszewski & Tooby)
- (5) Fractionating the visual architecture for natural category recognition using the ‘attentional blink’ paradigm. (with New & Tooby)

State University of São Paulo: Psychology Colloquium. São Paulo, Brazil. Cognitive adaptations for social exchange. May 15, 2006.

Federal University of Rio de Janeiro: Psychology Colloquium. Rio de Janeiro, Brazil. Cognitive adaptations for social exchange. May 12, 2006.

Harvard University: Psychology Colloquium. Cambridge, MA, February 8, 2006. Can race be erased? The evolutionary psychology of coalitional alliances and social categorization.

Institute for Humane Studies, Social Change Workshop. University of Virginia, Charlottesville, VA, June 19, 2005. *Theme: Human Nature and Social Institutions.* Lecture #1: Human nature and society: Using evolutionary psychology to understand institutions. Lecture #2: Human nature and social change: The evolutionary psychology of coalitions and collective action.

Human Behavior and Evolution Society, University of Texas, Austin, TX, June 1-5, 2005.

Papers presented:

- (1) Character counts: Character information regulates trust in economic games (with Krasnow & Tooby)
- (2) Are computational adaptations for reasoning about social exchange and precautions neurally as well as functionally distinct? An fMRI study (with Ermer, Tooby, Guerin, & Miller)
- (3) Physical strength predicts entitlement, anger, and attitudes toward aggression in men. (with Sell & Tooby)

Workshop in Political Theory and Policy Analysis, Indiana University. Bloomington, IN. April 28, 2005. Can race be erased? Evolutionary psychology, coalitional alliances, and categorization.

Reason Foundation. Laguna Niguel, CA. April 1, 2005. Human nature and social change: The evolutionary psychology of coalitions and collective action (with Tooby).

Olin School of Business, Washington University in St. Louis. St. Louis, MO, April 15, 2004. *Organizational Behavior Workshop.* Evolutionary psychology and organizational behavior.

Heuristics and the Law, Dalhem Conference, Max Plank Society. June 6-11, 2004. Evolved moral sentiments and the law. (Working group: *The role of heuristics in making law*).

Kavli Institute for Theoretical Physics. University of California, Santa Barbara. October 29, 2003. Coalitional psychology and social categorization (with Tooby).

Human Behavior and Evolution Society, University of Nebraska, Lincoln, Nebraska, June 4-8, 2003. Papers presented:

- (4) Elements of a Darwinian theory of Lamarckian inheritance (with Tooby)
- (5) The asymmetric war of attrition and human anger (with Sell & Tooby)
- (6) Evidence for domain-specificity of trait attribution: Replication and extension (with Burkett & Kirkpatrick)

Society for Personality and Social Psychology, Evolutionary Psychology Preconference. Los Angeles, CA, February 6, 2003. Can race be erased? Coalitional computation and social categorization. (with Tooby and Kurzban)

German Psychological Society (Kongress der Deutschen Gesellschaft für Psychologie), Humboldt University, Berlin, Germany, September 22-26, 2002. Panel discussant: Evolutionary psychology: A revolutionary paradigm?

Minary 2002, Person Construal, Dartmouth College, New Hampshire, August 8-11. Paper presented: Can race be erased? Coalitional computation and social categorization.

Human Behavior and Evolution Society, Rutgers University, New Jersey, June 19-23, 2002. Papers presented:

- (1) Are there cognitive adaptations for learning about one's own personality: Neuropsychological evidence for specialized learning, storage, and retrieval systems. (with Klein & Tooby)
- (2) The evolution of collective action: An adaptationist dissection. (with Tooby)

Institute for Humane Studies Social Change Workshop for Graduate Students, University of Virginia, Charlottesville, VA., June 15-21, 2002. Human Nature and Social Change. Paper presented: The evolutionary psychology of coalitions and collective action

Biological Bases of Behavior: Adaptations and Mechanisms, National Autonomous University of Mexico and Autonomous University of Tlaxcala (Bases Biológicas de la Conducta: Adaptaciones y Mecanismos, Universidad Nacional Autónoma de México and Universidad Autónoma de Tlaxcala), Tlaxcala, Mexico, May 16-18, 2002. Paper presented: Cognitive adaptations for social exchange.

Human Behavior and Evolution Society, University College London, London, UK, June 13-17, 2001. Papers presented:

- (1) Decisions and the evolution of multiple memory systems: Using personality judgments to test the scope hypothesis (with Klein, Tooby, & Chance)
- (2) Why attribute personalities to persons? The regulation of social reasoning by information about behavior in evolutionary games (with Tooby & Sell)
- (3) Does it pay to interfere? An investigation of whether individuals are sensitive to the different costs associated with inbreeding within the family (with Lieberman & Tooby)

Knowledge, Social Change, and Economic Performance. Core member. Workshops 1-3. October, 2000 (Airlie Center, VA), December 2000 (Washington University, St. Louis), February 2001 (Stanford University, CA). Organized by Douglass North (Nobel laureate in Economics), the Mercatus Center (Arlington, VA), and the Stanford KNEXUS project.

Human Behavior and Evolution Society, Amherst, MA, June 7-11, 2000. Papers presented:

- (1) Social exchange: Converging evidence for special design (with Tooby);
- (2) Resolving the debate on innate ideas (with Tooby);

- (3) In search of cues governing kin recognition and incest avoidance (with Lieberman & Tooby).

Imagination and the Adapted Mind: The Prehistory and Future of Poetry, Fiction, and Related Arts. UCSB, August 24-29, 1999. Paper presented: The evolution of decoupled cognition.

Human Behavior and Evolution Society, Salt Lake City, UT, June 2-6, 1999. Papers presented:

- (1) Character counts: Cheater detection is relaxed for honest individuals (with Tooby, Montaldi, & Thrall);
- (2) Art, imagination, and the adapted mind: Toward a theory of aesthetics (with Tooby).

Working Group on Evolution and Rationality. Santa Barbara, CA, January 15-17, 1999 (Organizer: Stephen Stich). Ecological rationality and the multimodular mind (with Tooby).

Marriage, Morality and Emotions – Updating Edward Wetermarck, Helsinki, Finland, November 19-22, 1998. A closer look at the Westermarck hypothesis: An evolutionary analysis of the mechanisms of incest avoidance. (with Lieberman and Tooby; delivered by Lieberman)

MacArthur Workshop on Evolution and Economics: Strong Reciprocity. Amherst, MA, October 16-18, 1998. (Organizers: Herb Gintis & Sam Bowles, Dept. of Economics, University of Massachusetts, Amherst.) Deep engagement, individuality, and the banker's paradox (with Tooby).

McDonnell-Pew Summer Institute for Cognitive Neuroscience, Squaw Creek, CA, July 1998. Paper presented: The cognitive neuroscience of social reasoning.

Human Behavior and Evolution Society, Davis, CA, July, 1998. Papers presented:

- (1) The evolution of cognitive adaptations for metarepresentation, Part I (with Tooby);
- (2) The evolution of cognitive adaptations for metarepresentation, Part II (with Tooby).

Institute for Theoretical Physics. University of California, Santa Barbara, May 20, 1998. Has natural selection shaped how humans reason? (with Tooby).

Human Behavior and Evolution Society, Tucson, AZ, June, 1997. Papers presented:

- (1) Beyond kin selection and reciprocation: Other selection pressures for adaptations for altruism (with Tooby);
- (2) A computational theory of communication (with Tooby);
- (3) Cooperation and punishment in groups: Economic trade-offs (with Rutherford, Kurzban, & Tooby).

Cognitive Science Society, San Francisco, CA, July 1997. Stone, V. E., Baron-Cohen, S., Cosmides, L., Tooby, J. & Knight, R. T. (1997). Selective impairment of social inference abilities following orbitofrontal cortex damage. *Proceedings of the Nineteenth Annual*

Conference of the Cognitive Science Society, M. G. Shafto & P. Langley (Eds.), London: Lawrence Erlbaum, p. 1062.

British Psychological Society, Edinburgh, Scotland, April, 1997. Paper presented (with Tooby): The logic of threat.

Tenth Annual Vancouver Cognitive Science Conference, Simon Fraser University, Vancouver, Canada, February, 1997. Topic: *Metarepresentations*. Paper presented (with Tooby): Consider the source: the evolution of cognitive adaptations for metarepresentation.

Ciba Foundation, London, England, October, 1996. Symposium #208: *Characterizing human psychological adaptations*. Papers presented (with Tooby):

- (1) Dissecting the computational architecture of social inference mechanisms.
- (2) Groups in mind: The evolution of cognitive adaptations for coalitions and status.

Cambridge University, Zangwill Club Lecture, Department of Experimental Psychology, Cambridge, England, October 1996. Cognitive adaptations for social exchange.

XXVI International Congress of Psychology, Montreal, Canada. Symposium: *Reasoning and Rationality* (Gigerenzer). Paper presented (with Tooby): Ecological rationality in a multimodular mind.

Cognitive Science Society, San Diego, CA, July, 1996. Paper presented (with Tooby): Ecological rationality: a new approach to human reasoning.

Human Behavior and Evolution Society, Evanston, IL, June, 1996. Papers presented:

- (1) Selective impairment of cheater detection: Neurological evidence for adaptive specialization (with Stone and Tooby);
- (2) Adaptive sex differences in reasoning about self defense (with Rutherford and Tooby);
- (3) Retrieval cues in social categorization: Content and context effects (with Kurzban and Tooby);
- (4) By accident, or by design (with Fiddick and Tooby).

Workshop on Applied Economics Series, University of Arizona, December 11, 1995. Paper presented (with Tooby): Evolutionary psychology: Making economics an natural science.

Human Behavior and Evolution Society, Santa Barbara, CA, June, 1995. Papers Presented:

- (1) The Evolution of Memory, Modularity, and Information Integrity (with Tooby);
- (2) Episodic Memory, Theory of Mind, and their Breakdown (with Tooby);
- (3) Are There Really Separate Reasoning Mechanisms for Social Contracts and Precautions? (with Fiddick and Tooby);
- (4) Testing for Universality: Reasoning Adaptations among the Shiwiar of Amazonia (with Sugiyama and Tooby);
- (5) Detecting Coalitions: Evolutionary Psychology and Social Categorization (with Kurzban and Tooby).

Royal Society/British Academy Discussion Meeting, *Evolution of Social Behaviour Patterns in Primates and Man*, London, April 1995. Paper presented (with Tooby): Evolutionary psychology, reasoning instincts, and culture.

Evolution, Memory, and Consciousness, Center for Neuroscience, UC Davis, March 1995. Paper presented (with Tooby): Mind, memory, and adaptive function.

Political Economy Lecture Series, Department of Economics, Harvard University, February 1995. Paper presented (with Tooby): Evolutionary psychology: Making economics a natural science.

Institutional Analysis Workshop, Department of Economics, UC Berkeley, October 1994. Paper presented (with Tooby): Are humans good intuitive statisticians after all?

Second International Conference on Sociobiology and Primatology. Harvard University, Cambridge, MA, October 1994. Paper presented: The evolution of reasoning instincts.

Max Planck Society, Presidential Committee Colloquium on Ethology/Anthropology, Heidelberg, Germany, August, 1994. Paper presented: The emergence of evolutionary psychology.

McDonnell-Pew Summer Institute for Cognitive Neuroscience, Davis, CA, July 1994. Paper presented: The evolution of reasoning instincts.

Human Behavior and Evolution Society, Ann Arbor, MI, June, 1994. Papers Presented:
(1) Universal Darwinism and the perennially elusive cancer cure (with Tooby);
(2) Prime time for Darwin: Converging lines of evidence for domain-specific reasoning modules (with Fiddick and Tooby)

American Economic Association. Boston, MA, January 1994. Symposium: Invisible Hand Theories. Paper Presented (with Tooby): Evolutionary psychology and the invisible hand.

Human Behavior and Evolution Society. Binghamton, NY, August, 1993. Papers presented:
(1) What can you think about in a frequentist way? (with Brase & Tooby);
(2) Psychological adaptations in women for assessing a man's willingness to invest in offspring (with La Cerra & Tooby).

Summer Institute for Cognitive Neuroscience. Olympic Valley, CA, July 1993. Paper presented: Evolution of domain-specific reasoning systems.

Darwinian Perspectives on Human Nature. Dept. of Zoology, Oxford University, England, June 1993. Paper presented (with Tooby): Pathogens and combinatorial explosion as selection pressures on human cognition.

New Approaches to Human Development: Diverse methods, populations, and settings. UCSB, June 1993. Paper presented (with Tooby and Sugiyama): Cognitive science in the rainforest: The search for universal human psychology.

Human Behavior and Evolution Society. Albuquerque, NM, July 1992. Papers presented:
(1) Statistical reasoning in a multimodular mind. Part 1: An evolutionary approach to the study of judgment under uncertainty (with Tooby);
(2) Statistical reasoning in a multimodular mind. Part 2: Experiments.

Annual Meeting of the Cognitive Neuroscience Institute. Rutherford, CA, May 1992. Paper presented: Cognitive adaptations: Social exchange and intuitive statistics.

Society for Philosophy and Psychology. San Francisco, CA, June 1991. Symposium: *The roots of social cognition* (Jackendoff). Paper presented: The logic of social exchange versus the logic of logic.

American Association for the Advancement of Science. Washington, D.C., February 1991. Symposium (Pontius): *Evolution of cognitive functions in ecological-cultural context*. Paper presented: Evolutionary psychology of social exchange.

Biological foundations of culture. Zentrum fur interdisziplinare Forschung, Universitat Bielefeld, West Germany, November 1990. Paper presented (with Tooby): Normative logics versus adaptive logics.

Cultural knowledge and domain specificity. Ann Arbor, MI, October 1990. Paper presented (with Tooby): Origins of domain specificity: The evolution of functional organization.

Animal Behavior Society. Binghamton, NY, June 1990. Symposium: *Theoretical and empirical studies of cooperative behavior* (D.S. Wilson). Paper presented: Evolved cognitive specializations in humans for reasoning about social exchange.

Human Behavior and Evolution Society. Los Angeles, CA, August 1990. Paper presented: Is the mind frequentist?

Society of Experimental Social Psychology. Santa Monica, CA, October 1989. Symposium: *Macro and Micro Studies of Deceit* (Ekman). Paper presented: Detecting cheaters in situations of social exchange.

American Psychological Association. New Orleans, LA, August 1989. Symposium: *Evolutionary Psychology: New Directions*. Paper presented: Evolutionary social cognition: Reasoning about reciprocation.

Human Behavior and Evolution Society. Evanston, IL, August 1989. Papers presented:
(1) The logic of threat (with Tooby);
(2) Are there different kinds of cooperation and separate Darwinian algorithms for each? (with Tooby).

Evolutionary Psychology and Psychiatry Conference. Ann Arbor, Michigan, October 1988. Co-chaired session on Cognitive Psychology and Artificial Intelligence. Papers presented:
(1) Domain specificity in human reasoning;
(2) From adaptation to mechanism: The role of computational theories (with Tooby).

XXIV International Congress of Psychology. Sydney, Australia, August, 1988. Symposium: *Has animal behavior got anything to do with human behavior?* (Staddon). Paper presented (with Tooby): Adaptation versus phylogeny: The role of animal psychology in the study of human behavior.

Eighteenth Annual Symposium of the Jean Piaget Society. Philadelphia, June 1988. Paper presented: Domain general or domain specific? An evolutionary approach to cognitive psychology (with Tooby).

Annual Evolution and Human Behavior Meetings. University of Michigan, April 1988.
(1) Paper presented: Evolution and Cognition: Has natural selection shaped how humans reason about social exchange? (with Tooby);
(2) Poster presented: The evolution of war and its cognitive foundations (with Tooby).

Evolved Constraints on Cultural Evolution. UCLA, May 1986. Paper presented: Evolutionary psychology and the generation of culture, Part II. Case study: A computational theory of social exchange.

First International Conference on Sociobiology and Primatology. Harvard University, November 1984. Paper presented: The cognitive basis of human reciprocity.

Invited talks at: Dartmouth (5/85), Stanford (11/85), Duke (2/86), UCLA (5/87), UC Santa Barbara (12/87), MIT (2/88), U. Chicago (3/88), Michigan (4/88), Stanford (1/89, 2/89), MIT (3/89), UC Irvine (5/89), U. New Mexico (9/89), CASBS (10/89), UCSB (2/90), U. Virginia (2/90), UC Berkeley (3/90; 10/94), Stanford Medical School (4/90), UCSB (5/90), U. Salzburg, Austria (11/90); Max Planck Institute, Munich, Germany (11/90); UCSB (1/91); MIT (2/91); U. Oregon (4/91); U.C. Santa Cruz (4/91); Zentrum fur interdisziplinäre Forschung, Bielefeld, Germany (11/91) U. Arizona (9/92); UCSB (10/92); UC Davis (5/94); Harvard (2/95); London School of Economics (4/95); U. of Cambridge (10/96); UCSB Cognitive Science (4/97); UCSB Dept. of Biology (5/97); UCSB Institute for Theoretical Physics (5/98); UCLA Close Relationships Interest Group (3/99); USC Law School (4/99); Indiana University Psychology & Center for the Integrative Study of Animal Behavior (4/00); Max Planck Institute for Human Development, Berlin (6/01); Rice University Psychology Dept (2/17/03); UCLA Culture, Brain, & Development program (3/05); Harvard Anthropology Dept (4/17/05); UCSB Cognitive & Perceptual Sciences (4/06).

Consulting: MacArthur Foundation Project on Mental Illness and the Law, headed by John Monahan, Professor of Psychology and Law, School of Law, University of Virginia. Worked on tests to assess whether individuals with mental illness are capable of giving informed consent. (1990)

Reviewing

Journals: *Psychological Review, Cognition, Behavioral and Brain Sciences, Journal of Personality and Social Psychology, Current Directions in Psychological Science, JEP: General, Social Cognition, Psychological Bulletin, Journal of Cognitive Neuroscience, Child Development, Personality and Social Psychology Bulletin, Ethology and Sociobiology, Current Anthropology, and others.*

Grants: *National Science Foundation, National Sciences and Engineering Research Council of Canada, Ciba Foundation Symposia.*

Other research experience

National Institute of Mental Health (Poolesville, MD)

Laboratory of Brain Evolution & Behavior, NIH Animal Center, under supervision of P.D. MacLean. Conducted research to ascertain effects of chemically-induced decortication on behavior of infant rats. Summer 1977.

National Health & Lung Institute (Bethesda, MD)

Laboratory of Chemical Pharmacology, NIH, under supervision of J.R. Mitchell. Conducted research to ascertain biochemical pathways whereby overdoses of two common analgesics, phenacetin & acetaminophen (Tylenol), cause liver & kidney necrosis. Summers 1975, 1974.

Roswell Park Memorial Institute (Buffalo, NY)

Research Participation Program in Science, under supervision of C. Dave. Conducted research investigating role of polyamine spermidine in cancerous cell growth. Summer 1973.

Teaching Experience

UCSB: *Psychology 1; Evolution and Cognition; Introduction to Cognitive Development; Cognitive Development (Graduate seminar); Advanced Topics in Evolutionary Psychology (Graduate seminar).* **Stanford:** *Evolutionary Psychology Seminar.*

April 2008