

ELIZABETH ANN CASHDAN

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Education

- 1979–80 NRSA Postdoctoral fellow; University of Michigan Population Studies Center.
- 1979 Ph.D., Anthropology, University of New Mexico.
 Dissertation: *Trade and Reciprocity among the River Bushmen of Northern Botswana.*
- 1973 M.A., Anthropology, University of New Mexico.
- 1970 B.A., Anthropology, University of California at Berkeley.
 With Distinction, Departmental Honors in Anthropology.

Academic Positions

- 1999–present Professor, University of Utah Department of Anthropology
- 2006–2011 Department Chair, University of Utah Department of Anthropology
- 1996–1997 Research Fellow, King's College Research Centre, Cambridge University, (Human Diversity Project, directed by Robert Foley)
- 1989–1998 Associate Professor, University of Utah, Department of Anthropology
- 1988–1989 Visiting Associate Professor, University of Utah, Department of Anthropology
- 1987–1989 Associate Profesor, University of Pittsburgh, Department of Anthropology
- 1980–1987 Assistant Professor, University of Pittsburgh, Department of Anthropology (on leave, 1983-1985)
- 1979-1980 Post-Doctoral Fellow, University of Michigan, Population Studies Center

Professional Interests

Behavioral Ecology; Evolutionary Psychology; Hormones and Behavior; Sex Differences; Hunter-Gatherers

Professional Service

- 2018–2019 Acting and Past President, *Human Behavior and Evolution Society*
- 2019–2021 Consulting Editor *Evolution and Human Behavior*
- 2015–2017 President, *Human Behavior and Evolution Society*
- 2011–present Consulting Editor *Human Nature*
- 2011–2014 Associate Editor *Evolutionary Psychology*
- 2014, 2015 Panel Member, National Science Foundation
- 2008–2012 Editorial Board, *American Anthropologist*
- 2006–2009 Governing Board, Evolutionary Anthropology Society.
- 2009 Conference Organizer (with David Carrier and Steve Downes): *Evolution of Human Aggression: Lessons for Today's Conflicts*, sponsored by the Tanner Center for Nonviolent Human Rights Advocacy, University of Utah.
- 2000–2006 Governing Board, Human Behavior and Evolution Society.
- 1999 Local Organizer (with Alan R. Rogers) and member of program committee, Human Behavior and Evolution Society meetings, University of Utah.
- 1996–2006 Editorial Board, *Evolution and Human Behavior*.
- 1992–1994 Panel Member, National Science Foundation
- 1980–1989 Editorial Board, *Ethnology*.
- 1990–1994 Director, Sill Research Center, University of Utah.
- 1990 Panel Organizer (with Eric Smith) of the session "The Original Affluent Society Revisited." Sixth International Conference on Hunting and Gathering Societies, University of Alaska, Fairbanks.
- 1985 Conference Organizer (with Eric A. Smith), *Risk and Uncertainty: Ecological and Economic Perspectives*, Seattle. (funded by the Wenner Gren Foundation)

Publications

Books and Edited Collections

- 2016 S. J. C. Gaulin and E. Cashdan (eds.) Mobility and Spatial Reasoning, *Human Nature* Special issue Vol 27(1).
- 2012 E. Cashdan and S. Downes (eds.) The Evolution of Human Aggression. *Human Nature* Special Issue Vol 23(1).
- 1990 E. Cashdan (ed.) *Risk and Uncertainty in Tribal and Peasant Economies*. Westview Press.

Articles

- 2019 H. Davis and E. Cashdan, Spatial cognition, navigation, and mobility among children in a forager-horticulturalist population, the Tsiman of Bolivia. *Cognitive Development* in press.
- 2019 I. Ruginski, S. Creem-Regehr, J. Stefanucci, and E. Cashdan, GPS use negatively affects environmental learning through spatial transformation abilities. *Journal of Environmental Psychology* 64:12-20.
- 2018 K. Gagnon, B. Thomas, A. Munion, S. Creem-Regehr, and E. Cashdan, Not all those who wander are lost: Spatial exploration patterns and their relationship to gender and spatial memory. *Cognition* 180:108-117.
- 2017 L. Padilla, S. Creem-Regehr, J. Stefanucci, & E. Cashdan, Sex differences in virtual navigation influenced by scale and navigation experience. *Psychonomic Bulletin & Review*, 24:582–590.
- 2016 E. Cashdan and S. J. C. Gaulin. Why Go There? Evolution of Mobility and Spatial Cognition in Women and Men *Human Nature* 27(1):1–15.
- 2016 E. Cashdan, K. Kramer, H. Davis, L. Padilla, & R. Greaves. Mobility and navigation among the Yucatec Maya: Sex differences reflect parental investment, not mating competition. *Human Nature* 27(1):35–50.
- 2016 L. Vashro, L. Padilla, & E. Cashdan. Sex Differences in mobility and spatial cognition: A test of the fertility and parental care hypothesis in Northwestern Namibia. *Human Nature* 27(1):16–34.
- 2016 K. Gagnon, E. Cashdan, J. Stefanucci, & S. Creem-Regehr. Sex differences in exploration behavior and the relationship to harm avoidance. *Human Nature* 27(1):82–97.
- 2015 L. Vashro and E. Cashdan. Spatial cognition, mobility, and reproductive success in Northwestern Namibia. *Evolution and Human Behavior* 36(2):123–129.
- 2014 E. Cashdan. Biogeography of human infectious diseases: A global historical analysis *PLoS One* 9(10):e106752
- 2013 E. Cashdan and M. Steele. Pathogen prevalence, group bias, and collectivism in the standard cross-cultural sample. *Human Nature* 24(1):59-75
- 2013 E. Cashdan. What is a human universal? Human behavioral ecology and human nature. In *Arguing About Human Nature: Contemporary Debates*, S. M. Downes and E. Machery, eds. Routledge. pp. 71–80.
- 2012 E. Cashdan and S. Downes. Evolutionary perspectives on human aggression *Human Nature* 23(1):1–4.
- 2012 E. Cashdan, F. Marlowe, A. Crittendon, C. Porter, B. Wood. Sex Differences in Spatial Cognition among Hadza Foragers. *Evolution and Human Behavior* 33(4):274–284.

- 2012 E. Cashdan. In-group loyalty or out-group avoidance? Isolating the links between pathogens and in-group assortative sociality *Behavioral and Brain Sciences* 35:82.
- 2009 E. Cashdan. Sex Differences in Aggression: What Does Evolutionary Theory Predict? *Behavioral and Brain Sciences*. 32:273-74
- 2008 E. Cashdan. Waist-to-Hip Ratio across Cultures: Trade-Offs between Androgen- and Estrogen-Dependent Traits. *Current Anthropology* 49:1099-1107.
- 2003 E. Cashdan. Hormones and Competitive Aggression in Women. *Aggressive Behavior* 29:107-115.
- 2002 E. Cashdan. Human Mate Choice. *Encyclopedia of Evolution*, Mark Pagel, ed. Oxford University Press.
- 2002 E. Cashdan and R. Trivers. Self-Deception *Encyclopedia of Evolution*, Mark Pagel, ed. Oxford University Press.
- 2001 E. Cashdan. Ethnic Diversity and its Environmental Determinants: Effects of Climate, Pathogens, and Habitat Diversity. *American Anthropologist* 103(4):968–991.
(Featured in the article “All People Who on Earth do Dwell,” *Trends in Ecology and Evolution* 17:207, 2002.)
- 2001 E. Cashdan. Ethnocentrism and Xenophobia: A Cross-Cultural Study. *Current Anthropology* 42(5):760–765.
- 1999 E. Cashdan. How Women Compete. *Behavioral and Brain Sciences* 22:221.
- 1998 E. Cashdan. Smiles, Speech, and Body Posture: How Women and Men Display Sociometric Status and Power. *Journal of Nonverbal Behavior* 22(4):209–228.
- 1998 E. Cashdan. Adaptiveness of Food Learning and Food Aversions in Children. *Social Science Information* 37:613–632.
- 1998 E. Cashdan. Are Men More Competitive than Women? *British Journal of Social Psychology* 37(2):213–229.
- 1998 E. Cashdan. Why is Testosterone Associated with Divorce in Men? *Behavioral and Brain Sciences* 21:366.
- 1997 A. R. Rogers and E. Cashdan. The Phylogenetic Approach to Comparing Human Populations *Evolution and Human Behavior* 18:353–358.
- 1996 E. Cashdan. Women’s Mating Strategies. *Evolutionary Anthropology* 5:134–143.
Reprinted as “What Do Women Want?” in *Anthropology: Contemporary Perspectives*, Phillip Whitten (ed.), Allyn and Bacon (2000). Also reprinted in Turkish in *TUBITAK Bilim ve Teknik Magazine* (December 1997).
- 1995 E. Cashdan. Hormones, Sex, and Status in Women. *Hormones and Behavior* 29:354–366.
- 1995 E. Cashdan. Territoriality. In *Encyclopedia of Cultural Anthropology*, D. Levinson and M. Ember, eds. New York:Henry Holt and Co. pp. 1301–1305.

- 1994 E. Cashdan. A Sensitive Period for Learning About Food. *Human Nature* 5:279–291.
- 1993 E. Cashdan. Attracting Mates: Effects of Paternal Investment on Mate Attraction Strategies. *Ethology and Sociobiology* 14:1–24
- 1992 E. Cashdan. Spatial Organization and Habitat Use. In *Ecology, Evolution, and Human Behavior*, E. A. Smith and B. Winterhalder, eds. New York: Aldine.
- 1991 E. Cashdan. Comment on Foragers' Pursuit of Individual Autonomy, by R. Gardner. *Current Anthropology* 32:559–560.
- 1990 E. Cashdan. Risk and Uncertainty in Tribal and Peasant Economies: An Introduction. In *Risk and Uncertainty in Tribal and Peasant Economies*, E. Cashdan, ed. Westview Press, pp. 1–16.
- 1990 E. Cashdan. Information Costs and Customary Prices. In *Risk and Uncertainty in Tribal and Peasant Economies*, E. Cashdan, ed. Westview Press, pp. 259–278.
- 1989 E. Cashdan. Hunters and Gatherers: Economic Behavior in Bands. In *Economic Anthropology*, S. Plattner, ed. Stanford: Stanford Univ. Press.
- 1988 P. Draper and E. Cashdan, Technological Change and Child Behavior among the !Kung. *Ethnology* 27:339–365.
- 1987 E. Cashdan. Trade and its Origins on the Botletli River, Botswana. *Journal of Anthropological Research* 43:121–138.
- 1986 E. Cashdan. Competition Between Foragers and Food Producers on the Botletli River, Botswana. *Africa* 56:299–317.
- 1986 E. Cashdan. Hunter-Gatherers of the Northern Kalahari. In *Contemporary Studies on Khoisan*, R. Vossen and K. Keuthmann, ed., Hamburg:Helmut Buske Verlag, pp. 145–180.
- 1985 E. Cashdan. Coping With Risk: Reciprocity Among the Basarwa of Northern Botswana. *Man* 20:454–474.
- 1985 E. Cashdan. Natural Fertility, Birth Spacing, and the 'First Demographic Transition'. *American Anthropologist* 87:650–653.
- 1984 E. Cashdan. G//ana Territorial Organization. *Human Ecology* 12:443–463.
- 1984 E. Cashdan. The Effects of Food Production on Mobility in the Central Kalahari. In *From Hunters to Farmers: Causes and Consequences of Food Production in Africa*, J. Desmond Clark and S. A. Brandt, eds. Berkeley: Univ. of California Press, pp. 311–327
- 1983 E. Cashdan. Territoriality among Human Foragers: Ecological Models and an Application to Four Bushman Groups. *Current Anthropology* 24:47–66.
- 1983 E. Cashdan. Comment on Anthropological Applications of Optimal Foraging Theory, by Eric A. Smith. *Current Anthropology* 24:642–643.

- 1980 E. Cashdan. Egalitarianism among Hunters and Gatherers. *American Anthropologist* 82:116–120.
- 1977 E. Cashdan. Social and Economic Networks: A Comparison of the Nata and Botletle River Areas. *Botswana Notes and Records* 9:166–167.

Grants and Awards

- 2019 Superior Research Award recipient, College of Social and Behavioral Sciences, University of Utah.
- 2016–2019 The relationship between mobility and spatial reasoning in children across cultures. NSF BCS 1628583 (Developmental Sciences). Cashdan (PI), Crittenden, Stefanucci, Butner (co-PIs). \$199,926.
- 2013–2019 Age changes and sex differences in spatial cognition: Testing the role of mobility in three non-industrial societies and the U.S. NSF IBSS 1329091. Cashdan (PI), Creem-Regehr, Stefanucci, Miller, Marlowe, and Sugiyama (co-PIs). \$999,871.
- 2011–13 Sex ratio variation and its social effects in Yap, Micronesia. NSF BCS 1124404 (DDIG) Cashdan (PI) Stone (co-PI). \$17,890
- 2010–12 Post-marital residence among the Ovatoe of northwestern Namibia, NSF BCS 1026373 (DDIG) Cashdan (PI) Vashro (co-PI). \$ 19,991
- 2005 Gender Differences in Spatial Cognition among Hadza Foragers. University of Utah Research Incentive Grant. \$ 19,485
- 1996–97 Sabbatical research, funded by King’s College Research Centre, Cambridge University.
- 1991 Neuroendocrine Correlates of Dominance. Clinical Research Center, University of Utah, through NIH.
- 1990 Sex Differences in Competition and Dominance. Faculty research grant, University of Utah.
- 1987–88 Resource Structure and Mobility among Kalahari Hunter-Gatherers. National Science Foundation.
- 1985 Risk and Uncertainty: Ecological and Economic Perspectives (Conference, with Eric A. Smith). Wenner Gren Foundation for Anthropological Research.
- 1981 Territoriality among Kalahari Foragers. Faculty research grant, University of Pittsburgh.
- 1979–80 Post-doctoral research at the University of Michigan Population Studies Center, National Research Service Award (NIH).

Recent Lectures and Presentations

- 2019 E. Cashdan et al. Sex Differences in Harm Avoidance Among hunter-gatherers and forager-horticulturalists. Human Behavior and Evolution Society (HBES), Boston, MA.
- 2019 E. Cashdan et al. Environmental Influences on Spatial Behavior and Spatial Reasoning in Humans: Sex Differences in Four Traditional Societies. International Convention of Psychological Science (ICPS), Paris.
- 2018 E. Cashdan. Evolutionary and Environmental Influences on Spatial Cognition. Margo Wilson Memorial Lecture, McMaster U.
- 2018 E. Cashdan. Sex Differences in Mobility and Wayfinding: Cross-Cultural Perspectives. Invited Plenary, Society for Cross-Cultural Research, Las Vegas, NV.
- 2018 H. Davis and E. Cashdan. Spatial cognition and mobility among children in a traditional and transitioning population. 7th International conference on spatial cognition (ICSC), Rome.
- 2017 E. Cashdan. Sex Differences in Mobility and Wayfinding: Cross-Cultural Perspectives. Invited Plenary, International Society for Human Ethology, Boise, ID
- 2017 M. Schug, H. Davis, J. Stefanucci, S. Creem-Regehr, A. Olsen, E. Cashdan. Experience and Spatial Cognition: Childhood Navigational Experience Predicts Performance on the Mental Rotation Task in Two Societies. Society for Cross-Cultural Research in Child Development.
- 2017 E. Cashdan, H. Davis, K. Kramer, and L. Vashro. Mating Competition, Mobility, and Wayfinding A Comparison of Three Societies. Human Behavior and Evolution Society Annual Meetings, Boise, ID
- 2016 K. Gagnon, S. Creem-Regehr, J. Stefanucci, E. Cashdan. Do Sex Differences in Mobility Explain Sex Differences in Navigation? Spatial Cognition 2016. Philadelphia, PA.
- 2015 E. Cashdan. Sex Differences in Mobility and Wayfinding: Cross-Cultural Perspectives. Invited lecture. Center for Behavior, Evolution, and Culture, UCLA
- 2015 E. Cashdan. Sex Differences in Mobility and Spatial Cognition: Cross-Cultural Perspectives. Invited lecture. Evolution and Human Adaptation Program, University of Michigan.
- 2015 S. Creem-Regehr, L. Padilla, J. Stefanucci, & E. Cashdan. Effects of spatial abilities, cue types, and scale on spatial memory in virtual natural landscapes. International Conference on Spatial Cognition (ICSC), Rome, Italy
- 2015 L. Padilla, S. Creem-Regehr, J. Stefanucci, & E. Cashdan. Sex differences in virtual navigation influenced by scale, visual cue-types, spatial memory and lifetime mobility. Annual Conference of the Cognitive Science Society, Pasadena, CA. (July)
- 2015 E. Cashdan. Why men travel farther than women: costs, benefits, and consequences. Invited plenary. Northwest Evolution, Ecology, and Human Behavior Symposium, Boise, ID. (April)
- 2015 M Schug, J Stefanucci, S. Creem-Regehr, & E. Cashdan. Wayfinding anxiety and childhood experience. Society for Research in Child Development meetings, Philadelphia (March)

- 2014 K. Gagnon, J Stefanucci, S. Creem-Regehr, E. Cashdan. Sex differences in exploration and the relationship to harm avoidance. 26th annual Human Behavior and Evolution Society meeting, Natal, Brazil. Awarded poster prize.
- 2014 L Padilla, S. Creem-Regehr, J Stefanucci, E. Cashdan. Effects of scale on sex differences in a virtual water maze. 54th annual meeting of the Psychonomics Society, Long Beach, CA.
- 2014 K. Gagnon, S. Creem-Regehr, J Stefanucci, E. Cashdan. Characterizing exploration behavior in a large-scale desktop virtual environment. 54th annual meeting of the psychonomics society, Long Beach, CA.
- 2013 L. Vashro and E. Cashdan, Spatial visualization, range size, and mating success. Human Behavior and Evolution Society Annual Meeting, Miami
- 2012 L. Vashro and E. Cashdan, Sex differences in spatial cognition among the Tue and Tjimba. Society for Anthropological Sciences Annual Meeting. Las Vegas, NV
- 2012 E. Cashdan and L. Vashro. Doing cognitive psychology in the bush. Society for Anthropological Sciences Annual Meeting, Las Vegas, NV.
- 2012 Spatial ability in hunter-gatherers. Invited lecture, Santa Fe Institute. Santa Fe, NM
- 2011 Spatial ability in hunter-gatherers. Invited lecture, Department of Anthropology, Penn State University
- 2010 Do pathogens and other risks promote ethnocentrism and xenophobia? American Anthropological Association meetings, New Orleans.
- 2008 E. Cashdan and F. Marlowe. Sex difference in Spatial Cognition among Hadza Foragers: A Reconsideration of the Gathering Hypothesis. International Society for Human Ethology, Bologna.
- 2006 Sex differences in Spatial Cognition among Hadza Foragers. Evolution and Human Behavior Society, Philadelphia, and Society for Cross-Cultural Research, Savannah GA
- 2005 Why Female Hierarchies are Less Stable. Human Behavior and Evolution Society, Berlin.
- 2004 Hormones, Sex, and Competitive Aggression in Women. Hanse Institute for Advanced Study conference on Sex, Brain and Human Aggression. Delmenhorst, Germany