

Rob Walker

Websites:   

EDUCATION

- 2004 PhD with distinction, Department of Anthropology, University of New Mexico
Committee: Kim Hill, Hillard Kaplan, Magdalena Hurtado & Michael Gurven
2001 MS with distinction, Department of Anthropology, University of New Mexico
1998 BA magna cum laude, Department of Anthropology, Colorado State University

EMPLOYMENT (5 universities)

- 2015 Associate Professor, Department of Anthropology, University of Missouri
2009 Assistant Professor, Department of Anthropology, University of Missouri
2008 Postdoctoral researcher, Max Planck Institute for Evolutionary Anthropology
2007 Research Assistant Professor, Anthropology Department, University of Colorado Denver
2006 Lecturer, Department of Anthropology, University of New Mexico
2005 Lecturer, Department of Anthropology, University of California Santa Barbara

TEACHING (4 universities, 9 courses)

- 2009 Amazonia, Hunter-Gatherers, Tribal Warfare, Introduction to Anthropology (MU)
2007 Introduction to Biological Anthropology, Human Behavior (CU Denver)
2006 Human Lifecourse, Human Evolutionary Ecology (UNM)
2005 Human Growth & Development (UCSB)

PUBLICATIONS ($n = 50$, $h = 21$, citations = 2100)

- 2016 Walker RS, DC Kesler, KR Hill. Are isolated indigenous populations headed toward extinction?
PLoS ONE **11**:e0150987
- Puts DA, AK Hill, DH Bailey, RS Walker, D Rendall, JR Wheatley, LLM Welling, K Dawood, R Cárdenas, RP Burriss, NG Jablonski, MD Shriver, D Weiss, AR Lameira, CL Apicella, MJ Owren, C Barelli, ME Glenn, G Ramos-Fernandez. Sexual selection on male vocal fundamental frequency in humans and other anthropoids. *Proceedings of the Royal Society of London B* **283**: 20152830
 - De Vynck JC, R Anderson, C Atwater, RM Cowling, EC Fisher, CW Marean, RS Walker, KR Hill. Return rates from intertidal foraging from Blombos Cave to Pinnacle Point: understanding early human economies. *Journal of Human Evolution* **92**:101-115
 - Ellsworth RM, DH Bailey, MK Shenk, RS Walker. Comparative study of reproductive skew and pair-bond stability using genealogies from 80 small-scale human societies. *American Journal of Human Biology* **28**:335-342
- 2015 Walker RS, KR Hill. Protecting isolated tribes. *Science* **348**:1061
- Walker RS, L Sattenspiel, KR Hill. Mortality from contact-related epidemics among indigenous populations in Greater Amazonia. *Scientific Reports* **5**:14032
 - Kesler DC, RS Walker. Geographic distribution of isolated indigenous societies in Amazonia and the efficacy of indigenous territories. *PLoS ONE* **10**:e0125113
 - Walker RS, C Yvinec, RM Ellsworth, DH Bailey. Co-father relationships among the Suruí (Paite) of Brazil. *PeerJ* **3**:e899
 - Ellsworth RM, RS Walker. Sociobiology of lethal violence in small-scale societies, in *Routledge Handbook of Biosocial Criminology*. Eds M DeLisi & MG Vaughn. Routledge, p. 57-74
 - Walker RS. Human residence patterns, in *Emerging Trends in the Social and Behavioral Sciences*. Eds R Scott & S Kosslyn. Wiley, p. 1-8

- Walker RS. Evolution of culture, in *Basics in Human Evolution*. Ed MP Muehlenbein. Academic Press, p. 525-531
- 2014 Walker RS, MJ Hamilton, AA Groth. Remote sensing and conservation of isolated indigenous villages in Amazonia. *Royal Society Open Science* **1**:140246
- Macfarlan SJ, RS Walker, MV Flinn, NA Chagnon. Lethal coalitionary aggression and long-term alliances among Yanomamö men. *Proceedings of the National Academy of Sciences USA* **111**:16662-16669
- Walker RS. Amazonian horticulturalists live in larger, more related groups than hunter-gatherers. *Evolution & Human Behavior* **35**:384-388
- Ellsworth RM, DH Bailey, KR Hill, AM Hurtado, RS Walker. Relatedness, co-residence, and shared fatherhood among Ache foragers of Paraguay. *Current Anthropology* **55**:647-653
- Walker RS, MJ Hamilton. Amazonian societies on the brink of extinction. *American Journal of Human Biology* **26**:570-572
- Walker RS, DH Bailey. Marrying kin in small-scale societies. *American Journal of Human Biology* **26**:384-388
- Walker RS, KR Hill. Causes, consequences, and kin bias of human group fissions. *Human Nature* **25**:465-475
- Bailey DH, KR Hill, Walker RS. Fitness consequences of spousal relatedness in 46 small-scale societies. *Biology Letters* **10**:20140160
- Hamilton MJ, RS Walker, DC Kesler. Crash and rebound of indigenous populations in lowland South America. *Scientific Reports* **4**:4541
- Ellsworth RM, RS Walker. Integrating approaches to human uniqueness. *Current Anthropology* **55**:768-769
- 2013 Walker RS, S Beckerman, MV Flinn, M Gurven, CR von Rueden, KL Kramer, RD Greaves, L Córdoba, D Villar, EH Hagen, JM Koster, L Sugiyama, TE Hunter, KR Hill. Living with kin in lowland horticultural societies. *Current Anthropology* **54**:96-103
- Walker RS, DH Bailey. Body counts in lowland South American violence. *Evolution & Human Behavior* **34**:29-34
- Bailey DH, RS Walker, GE Blomquist, KR Hill, AM Hurtado, DC Geary. Heritability and fitness correlates of personality in the Ache, a natural-fertility population in Paraguay. *PLoS ONE* **8**:e59325
- 2012 Walker RS, S Wichmann, T Mailund, CJ Atkisson. Cultural phylogenetics of the Tupi language family in lowland South America. *PLoS ONE* **7**:e35025
- Bailey DH, MJ Hamilton, RS Walker. Latitude, population size, and the language-farming dispersal hypothesis. *Evolutionary Ecology Research* **14**:1057-1067
- Hamilton MJ, O Burger, RS Walker. Human Ecology, in *Metabolic Ecology: A Scaling Approach*. Eds RM Sibly, A Kodric-Brown & JH Brown. Wiley & Sons, p. 248-257
- 2011 Hill K, RS Walker, M Bozicevic, J Eder, T Headland, B Hewlett, AM Hurtado, F Marlowe, P Wiessner, B Wood. Co-residence patterns in hunter-gatherer societies show unique human social structure. *Science* **331**:1286-1289
- Wichmann S, EW Holman, T Rama, RS Walker. Correlates of reticulation in linguistic phylogenies. *Language Dynamics & Change* **1**:205-240
- Walker RS, KR Hill, MV Flinn, RM Ellsworth. Evolutionary history of hunter-gatherer marriage practices. *PLoS ONE* **6**:e19066
- Walker RS, LA Ribeiro. Bayesian phylogeography of the Arawak expansion in lowland South America. *Proceedings of the Royal Society of London B* **278**:2562-2567
- Walker RS, MJ Hamilton. Social complexity and linguistic diversity in Austronesian and Bantu population expansions. *Proceedings of the Royal Society of London B* **278**:1399-1404
- Hogg RT, RS Walker. Life-history correlates of enamel microstructure in Cebidae (Platyrrhini, Primates). *Anatomical Record* **294**:2193-2206

- Gawlik A, RS Walker, Z Hochberg. Impact of infancy duration on adult size in 22 subsistence-based societies. *Acta Paediatrica* **100**:e248-e252
- Hochberg Z, A Gawlik, RS Walker. Evolutionary fitness as a function of pubertal age in 22 subsistence-based traditional societies. *International Journal of Pediatric Endocrinology* **2011**:2
- 2010 Walker RS, MV Flinn, KR Hill. Evolutionary history of partible paternity in lowland South America. *Proceedings of the National Academy of Sciences USA* **107**:19195-19200
- Burger O, RS Walker, MJ Hamilton. Lifetime reproductive effort in humans. *Proceedings of the Royal Society of London B* **277**:773-777
- 2009 Hamilton MJ, O Burger, JP DeLong, RS Walker, M Moses, JH Brown. Population stability, cooperation and the invasibility of the human species. *Proceedings of the National Academy of Sciences USA* **106**:12255-12260
- 2008 Walker RS, M Gurven, O Burger, MJ Hamilton. Trade-off between number and size of offspring in humans and other primates. *Proceedings of the Royal Society of London B* **275**:827-833
- Walker RS, MJ Hamilton. Life history consequences of density dependence and the evolution of human body sizes. *Current Anthropology* **49**:115-122
- 2007 Hamilton MJ, BT Milne, RS Walker, O Burger, JH Brown. Complex structure of hunter-gatherer social networks. *Proceedings of the Royal Society of London B* **274**:2195-2202
- Hamilton MJ, BT Milne, RS Walker, JH Brown. Nonlinear scaling of space use in human hunter-gatherers. *Proceedings of the National Academy of Sciences USA* **104**:4765-4769
- Hill K, AM Hurtado, RS Walker. High adult mortality among Hiwi hunter-gatherers: Implications for human evolution. *Journal of Human Evolution* **52**:443-454
- 2006 Walker RS, O Burger, J Wagner, CR von Rueden. Evolution of brain size and juvenile periods in primates. *Journal of Human Evolution* **51**:480-489
- Walker RS, M Gurven, K Hill, A Migliano, NA Chagnon, R De Souza, G Djurovic, R Hames, AM Hurtado, H Kaplan, K Kramer, WJ Oliver, C Valeggia, T Yamauchi. Growth rates and life histories in twenty-two small-scale societies. *American Journal of Human Biology* **18**:295-311
- Walker RS, K Hill, O Burger, AM Hurtado. Life in the slow lane revisited: Ontogenetic separation between chimpanzees and humans. *American Journal of Physical Anthropology* **129**:577-583
- Gurven M, RS Walker. Energetic demand of multiple dependents and the evolution of slow human growth. *Proceedings of the Royal Society of London B* **273**:835-841
- 2005 Burger O, M Hamilton, RS Walker. Prey as patch model: A marginal gains curve for vertebrate prey. *Journal of Archaeological Science* **32**:1147-1158
- 2003 Walker RS, KR Hill. Modeling growth and senescence in physical performance among the Ache of Eastern Paraguay. *American Journal of Human Biology* **15**:196-208
- 2002 Walker RS, KR Hill, H Kaplan, G MacMillan. Age-dependency in hunting ability among the Ache of Eastern Paraguay. *Journal of Human Evolution* **42**:639-657
- 2001 Todd LC, DC Jones, RS Walker, P Burnett, J Eighmy. Late archaic bison hunters in Northern Colorado: 1997-1999 Excavations at the Kaplan-Hoover Bison Bonebed. *Plains Anthropologist* **46**:125-147

GRANTS & FELLOWSHIPS (n = 16, \$270,000)

- 2016 MU Research Council Grant, Guajajara Guardians: Indigenous protection of native lands in eastern Amazonia, \$10,000
- 2015 National Geographic Society Research and Exploration Grant (#9764-15), Co-father relationships among Aché hunter-gatherers of Eastern Paraguay with KR Hill, \$15,000
 - MU Research Board Grant, Remote sensing uncontacted indigenous villages in Amazonia with DC Kesler, \$25,000
- 2014 MU Research Council Grant, Remote sensing uncontacted indigenous villages in Amazonia, \$9,000
 - Richard Wallace Faculty Incentive Grant, Remote sensing uncontacted indigenous villages in Amazonia with DC Kesler, \$4,000

- 2013 National Geographic Society Research and Exploration Grant (#9165-12), Population dynamics of recently contacted and isolated indigenous populations in Brazil with DC Kesler and MJ Hamilton, \$20,000
- 2012 RocketHub SciFund Challenge crowd-source funding, Shrinking horizons: Preserving humans' homes with MJ Hamilton and DC Kesler, \$3,000
- 2011 MU Research Board Grant, Alloparental kin investment & female reproductive strategies in Central Brazil with RM Ellsworth, \$34,000
- Richard Wallace Faculty Incentive Grant, Partible paternity in Brazil, \$2,000
- 2007 LSB Leakey Foundation General Research Grant, Growth & life history of the Hiwi, Venezuela, \$12,000
- 2003 Wenner-Gren Foundation Dissertation Research Grant (#6941), Skill investment and subsistence activities among the Makú of Northwest Amazonas, Brazil, \$15,000
- NSF Doctoral Dissertation Improvement Grant, \$10,000
 - LSB Leakey Foundation General Research Grant, \$12,000
- 2002 UNM research and travel grants, \$5,000
- 2001 NSF Graduate Research Fellow, 3 years, \$72,000
- 1999 UNM Lewis R Binford Graduate Fellow, 2 years, \$24,000

FIELDWORK (46 months)

- 2016 Indigenous protection of forests in eastern Brazil with Guajajara Guardians, 3 months
- 2013 Population dynamics of indigenous populations, Brazil, 2 months
- 2011 Alloparental kin investment & reproductive strategies, Brazil, 6 months
- 2010 Personality research with Aché, Paraguay, 1 month
- 2009 Cultural & linguistic variation in lowland South America, 6 months
- 2006 Demographic survey of Trio & Wayana, Brazil & Suriname, 3 months
- 2005 Visual evoked potentials & electroencephalography with Aché, Paraguay, 2 months
- 2002 Growth & life history of Makú, Brazil, 6 months
- 2000 Age-specific hunting ability of Aché, Paraguay, 4 months
- 1999 Archaeology, Hudson-Meng Bison Bonebed, Nebraska, 3 months
- 1998 Archaeology, Kaplan-Hoover Bison Bonebed, Colorado, 12 months

PRESENTATIONS (*n* = 28)

- 2016 Last of the world's uncontacted tribes. Miami
- Multiple fathers in lowland South America. Miami
 - Last of the world's uncontacted tribes. Baylor
- 2015 Body counts in lowland South American violence. NIMBioS
- Last of the world's uncontacted tribes. MU Saturday Morning Science
- 2014 Remote sensing uncontacted indigenous villages in Amazonia. UNLV
- Uniqueness of human social structure. Max Planck Institute
 - Remote sensing uncontacted indigenous villages in Amazonia. ASU
 - Multiple fathers in lowland South America. University of Kent
 - Extensive versus intensive human kinship systems. Penn State
- 2013 Multiple fathers in lowland South America. MU Life Sciences and Society
- 2012 Cultural phylogenetics in lowland South America. Linguistic conference, Amsterdam
- Body counts in Amazonian violence. Human Behavior & Evolution Society, UNM
 - Living with kin in traditional human societies. Penn State
- 2011 Mode & tempo of human cultural evolution. Yale
- 2010 Evolutionary history of partible paternity. Yale
- Cultural variation in the Amazon. Missouri Southern State
- 2009 Lifetime reproductive effort in humans. Washington University

- 2008 The expansionist ape: Human life history from a comparative perspective. UNM
- Trade-off between number & size of offspring in humans & other animals. UNM
 - Life-history theory of small & large body size in hunter-gatherers. ASU
- 2007 Age uncertainty & comparative human life history. Max Planck Institute
- Human life history from a comparative perspective. UCLA
 - Trade-off between number & size of offspring in humans & other primates. Human Behavior & Evolution Society, William & Mary
 - Density dependence & human life history evolution. American Association for Physical Anthropologists, Philadelphia
- 2006 Life history consequences of density dependence in the evolution of hunter-gatherer body sizes. Human Behavior & Evolution Society, Philadelphia
- Activity patterns & health of Aché hunter-gatherers. American College of Sports Medicine, Denver
 - Are there two human ontogenies? American Association for Physical Anthropologists, Anchorage

AWARD

2015 MU Provost Outstanding Junior Faculty Research Award