

KAREN L KRAMER
Professor of Anthropology
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Education

Ph.D. Anthropology, University of New Mexico, Albuquerque, New Mexico 1998
Chairs: H Kaplan, J Lancaster, J Boone & L Binford

Research Expertise

- Evolution of childhood & cooperation
 - Life history theory, cooperative breeding
 - Demographic, economic, nutritional & epidemiological transitions
 - Household economics & the human family
 - Hunter-gatherer ethnography
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Academic Appointments

2020	Sabbatical fellowship, Institute for Advanced Study, Toulouse School of Economics
2016-present	Professor, Department of Anthropology, University of Utah
2012-2016	Associate professor, Department of Anthropology, University of Utah
2010-2011	Hrdy Fellow, Radcliffe Institute for Advanced Study
2007-2012	Associate professor, Department of Human Evolutionary Biology, Harvard University
2006- 2007	Associate professor, Department of Anthropology, Stony Brook University
2000-2006	Assistant professor, Department of Anthropology, Stony Brook University
1999-2000	Mellon postdoctoral fellow, Department of Demography, University of California, Berkeley

Books & Edited Volumes

Fox, S, KL Kramer, J Silk & B Scelza, eds (2022)
Cooperation among Women: Evolutionary and Cross-Cultural Perspectives. *Philosophical Transactions of the Royal Society, B*, vol 378.

Schacht, R, KL Kramer, T Szekely and P Kappeler, eds (2017)
Adult Sex Ratios and Reproductive Strategies: A Critical Re-examination of Sex Differences in Human and Animal Societies. *Philosophical Transactions of the Royal Society, B* vol 372 (1729).

Codding, BF & KL Kramer, eds (2016)
Why Forage? Hunters and Gatherers Living in the 21st Century. School of Advanced Research, Santa Fe.

Kramer, KL (2005)
Maya Children: Helpers at the Farm. Harvard University Press, Cambridge.

Journal Articles

*graduate student collaboration

*Silva-Caballero, A, HL Ball, **KL Kramer** and GR Bentley (2023)
Sleep deprivation among adolescents in urban and indigenous-rural Mexican communities. *Scientific Reports* 13(1):1058. <https://doi.org/10.1038/s41598-023-28330-8>.

- Campbell, B, J Hackman & **KL Kramer** (2023)
Development of adiposity among Ju/'Hoansi hunter-gatherers. *American Journal of Biological Anthropology*, Feb 22.
- Amir, D, D Melnikoff, F Warneken, PR Blake, J Corbit, TC Callaghan, O Barry, A Bowie, L Kleutsch, **KL Kramer**, E Ross, H Vongsachang, R Wrangham & K McAuliffe (2023)
Computational signatures of inequity aversion in children across seven societies. *Journal of Experimental Psychology*, May 8.
- Ross, CT, Hooper, PL, Smith, JE et al. (2023)
Reproductive inequality in humans and other mammals. *PNAS*, May 22.
- Kramer, KL (2022)
Female cooperation. evolutionary, cross-cultural & ethnographic evidence. *Philosophical Transactions of the Royal Society, B* 372 (1868): doi.org/10.1098/rstb.2021.0425.
- *Fox, S, B Scelza, J Silk, **KL Kramer** (2022)
New perspectives on the evolution of women's cooperation. *Philosophical Transactions, B*, 372 (1868): doi.org/10.1098/rstb.2021.0424.
- Hackman, J & **KL Kramer** (2022)
Kin networks shape opportunities for reproductive cooperation, not conflict among hunter-gatherers. *Philosophical Transactions, B*, 372 (1868): doi.org/10.1098/rstb.2021.0434.
- Schacht, R, SR Beissinger, C Wedekind, M Jennions, B Geffroy, A Liker, PM Kappeler, FJ Weissing, **KL Kramer**, T Hesketh, J Boissier, C Ugglá, M Hollingshaus & T Székely (2022)
Adult sex ratios: causes of variation and implications for animal and human societies. *Communications Biology* 5(1):1273.
- Lew-Levy, S, R Reckin, S Kissler, I Pretelli, AH Boyette, AN Crittenden, RV Hagen, R Haas, **KL Kramer**, J Koster, M O'Brien, K Sonoda, TA Surovell, J Stieglitz, B Tucker, N Lavi, K Ellis-Davies & HE Davis (2022)
Socioecology shapes child and adolescent activity budgets in twelve hunter-gatherer and mixed-subsistence forager societies. *Scientific Reports* 12:8054.
- Veile, A, **KL Kramer** & E Otárola-Castillo (2022)
Household conditions modulate associations between cesarean delivery and childhood growth. *American Journal of Biological Anthropology* 179(1):85–103.
- Pisor, AC, X Basurto, KG Douglass, KJ Mach, E Ready, JM Tylanakis, A Hazel, MA Kline, **KL Kramer**, JS Lansing, M Moritz, PE Smaldino, TF Thornton, JH Jones (2022)
Effective climate-change adaptation means supporting community autonomy. *Nature Climate Change* 12(3):213-215.
- Veile, A, L Christopher, H Azcorra, F Dickinson, **KL Kramer** & MI Varela-Silva (2022)
Differences in nutritional status between rural and urban Yucatec Maya children. The importance of early life conditions. *American Journal of Biological Anthropology* 178(2):205-222.

- *Padilla-Iglesias, C, & **KL Kramer** (2021)
The role of language in structuring social networks following market integration in a Yucatec Maya population. *Frontiers in Psychology* 12: doi.org/10.3389/fpsyg.2021.656963.
- *Kramer, KL, BC Campbell, A Achenbach & J Hackman (2021)
Sex differences in adipose development in a hunter-gatherer population. *American Journal of Human Biology*, 34(2): doi:10.1002/ajhb.23688.
- Kramer, KL (2021)
The human family: Its evolutionary context and diversity. *Social Sciences* 10 (6):1-17, invited issue on The Behavioral Ecology of the Family, doi.org/10.3390/socsci10060191.
- Hackman, JV & **KL Kramer** (2021)
Balancing fertility and livelihood diversity in mixed economies. *PLoS One* 16(6): e0253535.
- Hackman, JV & **KL Kramer** (2021)
Kin ties and market integration in the Mayan Yucatan. *Social Sciences* 10 (6):1-19, invited issue on The Behavioral Ecology of the Family, doi:10.3390/socsci10060216.
- Kramer, KL, JV Hackman, R Schacht & HE Davis (2021)
Effects of family planning on fertility behaviour across the demographic transition. *Scientific Reports* 11(1)1-12, doi: 10.1038/s41598-021-86180-8.
- Jones, J.H., A Pisor, KG Douglass, R Bliege Bird, E Ready, A Hazel & J Hackman, **KL Kramer**, TA Kohler, H Pontzer, MC Towner (2021)
How can evolutionary and biological anthropologists engage broader audiences. *American Journal of Human Biology*, invited issue on Climate Change, 33(4): e23592, doi:10.1002/ajhb.23592.
- Kramer, KL (2021)
Childhood teaching and learning among Savanna Pumé hunter-gatherers. Mismatch between traditional foraging and modern industrialized societies. *Human Nature* 32 (1):87-114, invited issue on Teaching & Learning in Foraging & Transitioning Populations.
- Kramer, KL & JV Hackman (2020)
Scaling climate change to human behavior. Predicting good years and bad years for Maya farmers. *American Journal of Human Biology* 33(4): e23524, invited issue on Climate Change.
- Koster, J, R McElreath, K Hill, et al. (2020)
The life history of human foraging: Cross-cultural and individual variation. *Science Advances* 6(26): eaax9070.
- Shattuck-Heidorn, H, GN Eick, **KL Kramer**, LS Sugiyama, JJ Snodgrass & PT Ellison (2020)
Variability of C-reactive protein in a first-generation Ecuadorian immigrant population living in the U.S. *American Journal of Human Biology* 33(6):e23547.
- Kramer, KL (2019)
How there got to be so many of us. The evolutionary story of population growth and a life history of cooperation. *Journal of Anthropological Research*, invited contribution, 75(4):472-497.

- Koster, J, D Lukas, D Nolin, E Power, A Alvergne, R Mace, C Ross, **KL Kramer**, RD Greaves, M Caudell, S MacFarlan, E Schniter, R Quinlan, S Mattison, A Reynolds, C Yi-Sum & E Massengill (2019)
Kinship ties across the lifespan in human communities. *Philosophical Transactions of the Royal Society B, Biological Sciences* 374(1780): 20180069.
- Borgerhoff Mulder, M, MC Towner, R Baldini, BA Beheim, H Colleran, M Gurven, **KL Kramer**, SL Mattison, DA Nolin, B Scelza, R Sear, M Shenk, E Voland & J Ziker (2019)
Differences between sons and daughters in the intergenerational transmission of wealth. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 374(1780): 20180076.
- *Šaffa, G, AM Kubicka, M Hromada & **KL Kramer** (2019)
Is the timing of menarche correlated with mortality and fertility rates? *PLoS One* 14(4): 0215462.
- Schacht, RS & **KL Kramer** (2019)
Are we monogamous? A review of the evolution of pair-bonding and its contemporary variation cross-culturally. *Frontiers in Ecology and Evolution* 7:230, doi: 0.3389/fevo.2019.00230.
- Veile, A, C Vallengia & **KL Kramer** (2019)
Cesarean birth and the growth of Yucatec Maya and Toba/Qom children. *American Journal of Human Biology* 31(2): e23228.
- *Veile, A, A Faria, S Rivera, SM Tuller & **KL Kramer** (2019)
Birth mode, breastfeeding and childhood infectious morbidity in the Yucatec Maya. *American Journal of Human Biology* 31(2): e23218.
- Schacht, RS, HE Davis, & **KL Kramer** (2018)
Patterning of paternal investment in response to socioecological change. *Frontiers in Ecology And Evolution* 6 (142): 1-12, invited issue on Monogamy. doi: 10.3389/fevo.2018.00142142.
- Kramer, KL (2018)
The cooperative economy of food and its effect on human life history and physiology. *Physiology & Behavior* 193(B):196-204, invited issue on the Pace of Life and Feeding.
- Ross, C, M Borgerhoff Mulder and others (2018)
Greater wealth inequality, less polygyny: Rethinking the polygyny threshold model. *Journal of Royal Society Interface* 15(144):20180035.
- Kramer, KL & A Veile (2018)
Infant allocare in traditional societies. *Physiology & Behavior* 193 (A):117-126; invited issue on Nonmaternal Care in Mammals.
- Urlacher, SS & **KL Kramer** (2018)
Evidence for energetic tradeoffs between physical activity and childhood growth across the nutritional transition. *Scientific Reports* 8:369:1-10, doi:10.1038/s41598-017-18738-4.
- Kramer, KL, R Schacht & A Bell (2017)
Adult sex ratios & partner scarcity among hunter-gatherers: implications for dispersal patterns and the evolution of human sociality. *Philosophical Transactions of the Royal Society, B, Biological Sciences* 372(1729): 20160316.

- Schacht, R, **KL Kramer**, T Székely & P Kappeler (2017)
Adult sex ratios and reproductive decisions: a critical reexamination of sex differences in human and animal societies. *Philosophical Transactions, B: Biological Sciences* 372(1729): 20160309.
- Jaeggi, AV & **KL Kramer**, R Hames, EJ Kiely, C Gomes, H Kaplan & M Gurven (2017)
Human grooming in comparative perspective: People in six small-scale societies groom less but socialize just as much as expected for a typical primate. *American Journal of Physical Anthropology* 162: 810-816.
- Veile, A & **KL Kramer** (2017)
Childhood body size is positively associated with cesarean birth in Yucatec Maya subsistence farmers. *American Journal of Human Biology*, 29(2): e22920.
- Lancelotti, C, D Zurro, NJ Whitehouse, **KL Kramer**, M Madella, JJ García-Granero & RD Greaves (2016)
Resilience of small-scale societies' livelihoods: a framework for studying the transition from food gathering to food production. *Ecology & Society* 21(4): 8, doi:10.5751/ES-08757-210408.
- Schacht, R & **KL Kramer** (2016)
Patterns of family formation in response to sex ratio. *PLoS ONE* 11(8): e0160320, doi:10.1371/journal.pone.0160320.
- Kramer, KL, A Veile & E Otárola-Castillo (2016)
Sibling competition, growth tradeoffs. Biological vs. statistical significance. *PLoS ONE* 11(3): e0150126.
- E Cashdan, **KL Kramer**, HE Davis, RD Greaves & L Padilla (2016)
Mobility and navigation among the Yucatec Maya. Sex differences reflect parental investment, not mating competition. *Human Nature* 27: 35-50.
- Blake, PR, K McAuliffe, T Callaghan, J Corbit, O Barry, A Bowie, L Kleutsch, **KL Kramer**, E Ross, H Vongsachang, R Wrangham, & F Warneken (2015)
The ontogeny of fairness in seven cultures. *Nature* 528: 258-261.
- *Kramer, KL & E Otárola-Castillo (2015)
When mothers need others. The impact of hominin life history evolution on cooperative breeding. *Journal of Human Evolution* 84: 16-24.
- Kramer, KL & AF Russell (2015)
Was monogamy a key step on the hominin road? Reevaluation of the monogamy hypothesis in the evolution of cooperative breeding. *Evolutionary Anthropology* 24: 73-83.
- Veile, A & **KL Kramer** (2015)
Changing birth and breastfeeding dynamics in a modernizing indigenous community, *Journal of Human Lactation*, 30: 145-155.
- Kramer, KL & AF Russell (2014)
Kin-selected cooperation without lifetime monogamy: human insights and animal implications. *Trends in Ecology & Evolution* 29(3): 600-606.

- Kramer, KL (2014)
Why what juveniles do matters in the evolution of cooperative breeding. *Human Nature* 25(1): 49-65, invited issue on Eusociality.
- Greaves, RD & **KL Kramer** (2013)
Hunter-gatherer use of wild plants and domesticates: archaeological implications for mixed economies before agricultural intensification. *Journal of Archaeological Science* 41: 263-271.
- Walker, RS, S Beckerman, MV Flinn, CR von Rueden, **KL Kramer**, RD Greaves, L Córdoba, D Villar, EH Hagen, JM Koster & KR Hill (2012)
Living with kin in lowland horticultural societies. *Current Anthropology* 54(1): 1-9.
- Veile, A, J Winking, RD Greaves, M Gurven & **KL Kramer** (2012)
Infant growth and the thymus: data from two South American native societies. *American Journal of Human Biology* 24(6): 768-775.
- Kramer, KL (2011)
The evolution of human parental care and recruitment of juvenile help. *Trends in Ecology and Evolution* 26(10): 533-540.
- Kramer, KL & RD Greaves (2011)
Juvenile subsistence effort, activity levels and growth patterns: Middle childhood among Pumé foragers. *Human Nature* 22(3): 303-326, invited issue on Middle Childhood.
- Kramer, KL & RD Greaves (2011)
Postmarital residence and bilateral kin associations among hunter-gatherers. Pumé foragers living in the best of both worlds. *Human Nature* 22 (1): 41-63, invited issue on Kinship.
- Kramer, KL & PT Ellison (2010)
Pooled energy budgets: Resituating human energy allocation tradeoffs. *Evolutionary Anthropology* 19: 136-147.
- Kramer, KL (2010)
Cooperative breeding and its significance to the demographic success of humans. *Annual Review of Anthropology* 39: 414-436.
- Kramer, KL & JB Lancaster (2010)
Teen motherhood in cross-cultural perspective. *Annals of Human Biology* 37(5): 613-628.
- Kramer, KL & RD Greaves (2010)
Synchrony between growth and reproductive patterns in human females: Early investment in growth among Pumé foragers. *American Journal of Physical Anthropology* 141(2): 235-244.
- Kramer, KL (2010)
Intergenerational transfers and the cost of allomothering in traditional societies. Commentary to Grandparental investment: Past, present and future. *Behavioral and Brain Sciences* 33: 30-31.

- Kramer, KL & RD Greaves (2010)
Cambios en los patrones de mortalidad infantil y fertilidad entre cazadores-recolectores y horticultores umé: Implicaciones para el crecimiento poblacional y desarrollo sostenible. *Antropológica* 113: 5-41.
- Kramer, KL, RD Greaves & PT Ellison (2009)
Early reproductive maturity among Pumé foragers. Implications of a pooled energy model to fast life histories. *American Journal of Human Biology* 21(4): 430-437, invited issue on Tradeoffs in Female Life Histories.
- Brooks, CP, C Holmes, **KL Kramer**, B Barnett & TH Keitt (2009)
The role of demography and markets in determining deforestation rates near Ranomafana National Park, Madagascar. *PLoS ONE* 4(6): e5783.
- Kramer, KL (2008)
Early sexual maturity among Pumé foragers of Venezuela: Fitness implications of teen motherhood. *American Journal of Physical Anthropology* 136(3): 338-350.
- *Robinson Sullivan, R, RD Lee & **KL Kramer** (2008)
Counting women's labor: A reanalysis of children's net productivity in Mead Cain's Bangladeshi village. *Population Studies* 62(1): 25-38.
- Kramer, KL & RD Greaves (2007)
Changing patterns of infant mortality and fertility among Pumé foragers and horticulturalists. *American Anthropologist* 109(4): 713-726.
- Kramer, KL (2007)
Application of an integrated cooperation approach to human cooperative breeders. *Behavioural Processes* 76: 167-169.
- Kramer, KL (2007)
Comment to In-law conflict: women's reproductive lives and the roles of their mothers and husbands among the matrilineal Khasi. *Current Anthropology* 48(6): 879-880.
- Kramer, KL & GP McMillan (2006)
The effect of labor-saving technology on longitudinal fertility changes. *Current Anthropology* 47(1): 165-172.
- Walker, R., K Hill, M Gurven, A Migliano, N Chagnon, R De Souza, G Djurovic, R Hames, AM Hurtado, H Kaplan, **KL Kramer**, WJ Oliver, C Vallengia & T Yamauchi (2006)
Growth rates and life histories in twenty-two small-scale societies. *American Journal of Human Biology* 18: 295-311.
- Kramer, KL (2005)
Children's help and the pace of reproduction: Cooperative breeding in humans. *Evolutionary Anthropology* 14(6): 224-237.
- Kramer, KL (2002)
Variation in juvenile dependence: Helping behavior among Maya children. *Human Nature* 13(2): 299-325.

Kramer, KL & JL Boone (2002)

Why intensive agriculturalists have higher fertility: A household labor budget approach to subsistence intensification and fertility rates. *Current Anthropology* 43(3): 511-517.

Lee, RD & **KL Kramer** (2002)

Children's economic roles in the Maya family life cycle: Cain, Caldwell and Chayanov revisited. *Population and Development Review* 28(3): 475-499.

Kramer, KL & GP McMillan (1999)

Women's labor, fertility and the introduction of modern technology in a rural Maya village. *Journal of Anthropological Research* 55(4): 499-520.

Kramer, KL & GP McMillan (1998)

How Maya women respond to changing technology. The effect of helping behavior on initiating reproduction. *Human Nature* 9(2): 205-223.

Book Chapters, Online and Other Publications

Kramer, KL (forthcoming)

Cooperative breeding in humans, Ch 12. In *Human Behavioral Ecology*, J Koster, B Scelza & M Shenk (eds), Cambridge Studies in Biological and Evolutionary Anthropology, Cambridge University Press, forthcoming in 2024.

Kramer, KL & RS Schacht (in press)

Human sexuality: The evolutionary legacy of mating, parenting, and family formation. In *Cambridge World History of Sexualities*, M Wiesner-Hanks & M Kuefler (eds), Cambridge University Press, forthcoming in 2023.

Kramer, KL (2021)

What industrial societies get wrong about childhood. *Sapiens*, online magazine Nov 18, 2021. <https://www.sapiens.org/culture/children-social-learning/>; republished in Nautalis Dec 1, 2021 <https://nautil.us/issue/108/change/what-industrial-societies-get-wrong-about-childhood>

Kramer, KL, A Veile, P Ivey Henry (2021)

Conceiving reproduction in biological anthropology. In *The Routledge Handbook of Anthropology & Reproduction*, S Han & C Tomori (eds), CH 1: 19-35. Routledge Press.

Kramer, KL (2020)

Why are there so many humans? *Sapiens*, online magazine Jun 9, 2020. <https://www.sapiens.org/evolution/human-population-evolution/>

Veile, A, S Asaf, E Otárola-Castillo & **KL Kramer** (2019)

Hydration, lactation, and child health outcomes in Yucatec Maya. In *Environment and Health in the Yucatan Peninsula. A Human Ecology Perspective*, H Azcorra Pérez & F Dickinson (eds). Springer Nature.

Veile, A & **KL Kramer** (2018)

Pregnancy, birth and babies: motherhood and modernization in a Yucatec village. In *Maternal Health, Pregnancy-Related Morbidity and Death among Indigenous Women of Mexico & Central America*, DA Schwartz (ed), pps 205-224. Springer Nature.

Veile, A & **KL Kramer** (2018)

Shifting weanling's optimum: breastfeeding ecology and infant health in Yucatan. In *Breastfeeding. New Anthropological Approaches*, C Tomori, AEL Palmquist & EA Quinn (eds): 170-184. Routledge Press, London.

Greaves, RD & **KL Kramer** (2018)

Should I stay or should I go? Hunter-gatherer networking through bilateral kin. In *Essays on Focality and Extension and their Wider Implications in Memory of Harold W. Scheffler*, W Shapiro (ed): 133-177. The Australian National University Press, Acton.

Kramer, KL & RD Greaves (2017)

Why Pumé foragers retain a hunting and gathering way of life. In *Hunter-Gatherers in a Changing World*, V Reyes-García & A Pyhälä (eds): 109-126. Springer Press, Switzerland.

Kramer, KL (2017)

Evolutionary perspectives on teen motherhood. How young is too young? In *The Arc of Life. Evolution & Health across the Life Course*, G Jasienska, DS Sherry and D Holmes (eds): 55-75. Springer Press, New York.

Kramer, KL, N Blurton Jones, R Bliege Bird, BF Codding, JE Coxworth, RD Greaves, RK Hitchcock, KD Lupo, GW Wenzel (2016)

Cross-cultural demographic and social variables for contemporary foraging populations. In *Why Forage? Hunters and Gatherers Living in the 21st Century*, B Codding & KL Kramer (eds): 231-240. School of Advanced Research, Santa Fe.

Kramer, KL & RD Greaves (2016)

Diversity or Replace. What happens to wild foods when cultigens are introduced into hunter-gatherer diets. In *Why Forage? Hunters and Gatherers Living in the 21st Century*, B Codding & KL Kramer (eds): 15-42. School of Advanced Research, Santa Fe.

Kramer, KL & B Codding (2016)

Hunter-Gatherers in the 21st century. In *Why Forage? Hunters and Gatherers Living in the 21st Century*, B Codding & KL Kramer (eds): 1-14. School of Advanced Research, Santa Fe.

Kramer, KL (2015)

Childhood. *Emerging Trends in the Social and Behavioral Sciences*, RA Scott & SM Kosslyn (eds). John Wiley and Sons, Hoboken, NJ. DOI: 10.1002/9781118900772.etrds0038

Kramer, KL (2015)

Cooperative breeding and human evolution. *Emerging Trends in the Social and Behavioral Sciences*, RA Scott & SM Kosslyn (eds). John Wiley and Sons, Hoboken, NJ. DOI:10.1002/9781118900772.etrds0055

Kramer, KL (2011)

The Spoken and unspoken. *Field Notes for Scientists and Naturalists*, MR Canfield (ed), EO Wilson (forward): 109-127. Harvard University Press, Cambridge.

Kramer, KL (2011)

Book review of Ancient Bodies, Modern Lives, *American Journal of Physical Anthropology* 146(1):166-167.

- Kramer, KL (2009)
Does it take a family to raise a child? In *Substitute Parents. Biological and Social Perspectives on Alloparenting in Human Societies*, G Bentley and R Mace (eds): 77-99. Berghahn Books, New York.
- Kramer, KL (2009)
The changing demographic world of Maya farmers. *Symbols*, Spring 2009: 24-27.
- Lancaster, JB, A Geronimus, B Hamburg & **KL Kramer** (2008)
Introduction to *School-Age Pregnancy and Parenthood: Biosocial Dimensions*, JB Lancaster and BA Hamburg (eds): ix-xxxi. Aldine Transaction, New Brunswick.
- Kramer, KL (2004)
Reconsidering the cost of childbearing: The timing of children's helping behavior across the life cycle of Maya families. In *Socio-Economic Aspects of Human Behavioral Ecology, Research in Economic Anthropology*, volume 23, M Alvard (ed): 335-353. Elsevier, Amsterdam.
- Doggett, S, **KL Kramer** & L Straus (1995)
La signification des matières premières lithiques. In *Les Derniers Chasseurs de Rennes du Monde Pyrénéen: L'Abri Dufaure Un Gisement Tardiglaciaire en Gascogne*, L Straus (ed): 127-134. Mémoires de la Société Préhistorique Française, Tome XXII, Paris.

Fellowships, Awards & Honors

- 2020,2022 Institute for Advanced Study, Toulouse School of Economics, sabbatical fellowship
- 2016-2022 President-elect Evolutionary Anthropology Society
- 2018 JAR Distinguished UNM Alumni Lecturer
- 2013 School for Advanced Research, fellowship for advanced seminar program (B Codding, co-chair)
- 2010-2011 Hrdy Fellow, Radcliffe Institute for Advanced Study, sabbatical fellowship
- 2010-2011 American Philosophical Society, sabbatical fellowship (awarded, but turned back)
- 1999-2000 Andrew Mellon Postdoctoral Fellow, Department of Demography, UC Berkeley
- 1996 Research Fellow, Smithsonian Institution, Repatriation Office, National Museum of the American Indian

Funded Grants

*awards for graduate students

- 2020 *Shifting Market and Climate Influences on Social Networks, Labor Allocations & Wellbeing among Maya Farmers*. National Science Foundation, BCS-2051264, \$289,358. KL Kramer (PI), Joseph Hackman (Co-PI).
- 2019 *The Shifting Social Landscapes of Market Integration. Modernizing Influences and Social Network Effects on Health Outcomes*. VPR/CSBS Research Incentive Seed Grant Program, \$20,000. KL Kramer (PI).

- *2019 *Fictive Kinship Systems in Rapòn, Haiti: Exploring the Functions of the Komè System and its Impacts on the Structure of Social Support Networks and Resource Sharing*. National Science Foundation, \$6000, REG award for Angelina Demarco, KL Kramer (PI).
- *2018 *Traditional Ecological Knowledge among the Bará and Tuyuca in the Colombian Amazon: A Comparative Study of Food Systems among Indigenous Rural and Urban Dwellers*. National Science Foundation, \$6000, REG award for Blanca Yagüe, KL Kramer (PI).
- *2017 *Using Variation in Regulatory Regions and Genome Browsers in STEM Programs to Increase Genetics Literacy*. National Science Foundation, \$138,000, NSF GRFP. (A Achenbach, PI).
- 2016 *Risk Sensitive Decision Making among Maya Farmers: Subsistence Diversification in Response to Novel Environments*. National Science Foundation, BCS 1632338, \$214,583 (+\$20,072 supplemental award in 2019). KL Kramer (PI).
- 2015 *Spatial Reasoning among Maya Children: An Interdisciplinary and Cross-Cultural Study*. University of Utah Interdisciplinary Research Pilot Program, \$10,000. KL Kramer (PI).
- *2015 *The Effects of Land Tenure Security and Requirements on Land Usage in Indigenous Communities*. National Science Foundation, \$5000, REG award for Jessica Burns, KL Kramer (PI).
- 2015 *Spatial Cognition among Maya Children on a Changing Socioeconomic Landscape*. University of Utah Vice President of Research Funding Incentive Seed Grant Program, \$34,874. KL Kramer (PI).
- 2013 *21st Century Hunting and Gathering: Foraging on a Transitional Landscape*. School for Advanced Research, grant for advanced seminar program, May 2013 (B Codding, co-chair).
- *2013 *Cultural Models of Transnational Migrants: A Cross-National and Intrapopulation Comparison*. National Science Foundation, \$4750, REG for Heather Shattuck-Heidorn, KL Kramer (PI).
- *2012 *The Impact of Market Integration on Childhood Time Allocation, Energy Expenditure and Body Composition in a Rapidly Modernizing Indigenous Community*. National Science Foundation, \$5000, REG award for Sam Urlacher, KL Kramer (PI).
- *2011 *The Effects of Community Based Gardens on Children's Welfare*. National Science Foundation, \$5000, REG award for Luke Glowacki, KL Kramer (PI).
- 2010 *Emerging Differences in Children's Economic Roles and Parental Investment through the Fertility Transition of Maya Farmers*. National Science Foundation, BCS-0964031, \$217,898, KL Kramer (PI).
- 2007 *Effects of Acculturation on the Demography and Reproductive Ecology of Pumé Foragers and Horticulturalists of Venezuela*. Milton Fund, \$34,980, KL Kramer (PI).
- *2007 *Distinguishing Biomarkers of Stress among Pumé AmerIndians*. National Science Foundation, \$5,000, REG award for Amanda Veille, KL Kramer (PI).
- 2006 Supplemental award to *Cross Cultural Study of Demographic Processes in Pumé Transitional Subsistence Economies*. National Science Foundation, \$24,123, KL Kramer (PI).

- 2004 *Cross Cultural Study of Demographic Processes in Pumé Transitional Subsistence Economies*. National Science Foundation, \$103,000, KL Kramer (PI).
- 2002 *Integrating Dynamics of Human Resource Use and their Effects on Rainforests in Madagascar. Linking Landscape Ecology, Cultural Anthropology, Behavioral Ecology and Applied Mathematics for a Science-Based Strategy against Deforestation in Madagascar*. Packard Foundation, \$1,000,000, P Wright (PI), T Keitt & KL Kramer (co-PIs).
- 2001-2006 UUP funding for research, \$5000.
- 2000 *Interage Transfers and the Role of the Elderly in Maya Subsistence Agricultural Families*. National Institutes of Health-National Institute on Aging, \$75,000, RD Lee (faculty advisor/PI) and KL Kramer (co-PI).
- 2000 *Generational Transfers among the Maya of Yucatan*. Center on the Economics and Demography of Aging, \$10,000, RD Lee (faculty advisor/PI, UC Berkeley) and KL Kramer (co-PI).
- 1992-1996 Tinker-Mellon Foundation grant. Student Research Allocation Committee grants, University of New Mexico. President's Fund, University of New Mexico Teaching fellowship, Department of Anthropology, University of New Mexico.

Invited Colloquia

- 2023 *Hunting hypothesis and male-centered myths in Anthropology*, CARTA symposium, Salk Institute for Biological Studies, UCSD, La Jolla.
- 2022 *A life history of cooperation. Debunking evolutionary myths about women & children*. Origins of the Human Mind symposium. University of Virginia, Charlottesville.
- 2022 *Intergenerational cooperation & resource flows. Indirect & direct benefits of children's production*. 9th Annual Toulouse Economics and Biology Workshop, IAST & School of Economics, Toulouse.
- 2022 *Living on an Uncertain Landscape. Fertility and Livelihood Responses to Market Integration & Climate Change*. Plenary session, Human Biology Association, Denver.
- 2021 *Living on an Uncertain Landscape. Does Family Planning Account for Fertility Behavior? Across the Demographic Transition?* 8th Annual Toulouse Economics and Biology Workshop, IAST & School of Economics, Toulouse.
- 2020 *The Energetics of Natural Fertility. The Biological Cost of Reproduction across a Hunter-Gatherer Family Life Cycle*. Economics and Biology Workshop on Fertility: Causes and Consequences, IAST, Toulouse (canceled).
- 2020 *A Life History of Cooperation. How Humans Get There & Its Evolutionary Success*. University of Exeter, Penryn.
- 2020 *The Evolution & Economics of Parenting, Childhood & Intergenerational Transfers*. IAST, Toulouse School of Economics, Toulouse.
- 2019 *Food, Fertility & Cooperation: The Evolutionary Story of Human Population Growth*. UNL Faculty Senate Public Lecture series, University of Nebraska.

- 2019 *Fertility Variance Not Decline Characterizes the Early Demographic Transition*. Anthropology Department colloquium series, University of Nebraska.
- 2018 *How There Got to be So Many of Us. The Evolutionary Story of Population Growth and a Human Life History of Cooperation*. JAR Distinguished Alumni Lecture, University of New Mexico.
- 2018 *Cooperation, Parenting and Childhood. Evolutionary Shifts Favoring Cooperative Breeding*. Department of Anthropology Seminar Series, University of New Mexico.
- 2017 *The Cooperative Economy of Food in Traditional Societies: Its Effect on Human Life History & Physiology*. IBRC, Purdue University.
- 2017 *Adult Sex Ratios and Partner Scarcity in Small Populations: Implication for the Evolution of Human Sociality*. WIKO, Berlin.
- 2017 *Reformulations of Sexual Selection Theory: Sex Ratios and Sex Roles*. WIKO, Berlin (1st author Schacht, R, co-authors T Székely, P Kappeler)
- 2016 *The Evolution of Cooperative Breeding: Parenting and Juvenility in Traditional Societies and the Past*. Stony Brook University.
- 2016 *The Evolution of Cooperative Breeding & Intergenerational Cooperation*. Arizona State University.
- 2016 *Hunter-Gatherers Living in the 21st Century*. University of Pennsylvania, Evolving Global Dynamics.
- 2015 *Living on a Transitional Landscape: Changing Dynamics in the Evolutionary and Human Ecology of Foragers and Farmers*. Pennsylvania State University.
- 2014 *Subsistence Agriculturalists Adapting to a Transitional Landscape*. Symposium on Small-scale Societies and Environmental Transformations: Coevolutionary Dynamics. ICREA, Barcelona.
- 2014 *Evolution of Human Life History and Cooperation*. Max Planck Institute, directors meeting, Berlin.
- 2014 *How did Humans Get to be so Numerous? The Evolution and Ontogeny of Cooperation*. Symposium on Human Behavioral Ecology, Max Planck Institute for Evolutionary Anthropology, Leipzig.
- 2014 *The Evolution of Intergenerational Cooperation and Resource Flows in Small-Scale Societies*. Symposium on Older People in Relation to Younger People, Max Planck Institute for Demographic Research, Rostock.
- 2013 *The Evolution of Childhood, Cooperation and Human Sociality*. University of Nevada, Las Vegas.
- 2013 *When Mothers Need Others. The Evolution of Cooperation, Parenting & Childhood*. UCLA Center for Behavior, Evolution and Culture.
- 2013 *Hunters & Gatherers in the 21st Century* (B Coddington, coauthor), School of Advanced Research, Santa Fe.

- 2013 *The Evolution of Parental Care, Childhood and Cooperative Breeding*. Plenary address, Northwest Evolution Ecology and Human Behavior Symposium, Boise.
- 2012 *How Did There Get to be So Many of Us? The Evolution of Human Childhood and Parental Care*. Northwestern University.
- 2012 *The Evolution of Parental Care, Juvenility and Cooperative Breeding*. Plenary address, Human Behavior and Evolution Society, Albuquerque.
- 2012 *Inequality in Transitional Hunter-Gatherer and Agricultural Societies*. Symposium on Dynamics of Inequality in Pre-modern Societies (S Bowles and M Borgerhoff Mulder, organizers), Santa Fe Institute.
- 2011 *Human Juvenility: Ontogeny and Cooperation in Traditional Societies*. Evo-Devo seminar series, Harvard University.
- 2011 *Scales of Social Interaction and Cooperation among Maya Agriculturalists*. Seminar on Social Networks in Small-Scale Societies, Radcliffe Institute for Advanced Research.
- 2011 *Evolutionary Perspectives on Resources, Childhood and Parenting*. Yale University.
- 2011 *Resource Flows across the Life Course and the Demographic Advantage of Humans*. University of Utah.
- 2010 *Evolutionary Perspectives on Childhood and the Human Capacity for Population Growth*. Radcliffe Institute for Advanced Study.
- 2010 *Intergenerational Transfers and the Demographic Advantage of Human Childhood*. Stanford University.
- 2010 *Teen Pregnancy and Fast Life Histories*. University of Western Australia.
- 2010 *Cooperative Breeding and the Demographic Advantage of Human Childhood*. Amherst College.
- 2010 *Interactions between Subsistence Ecologies and Reproductive Ecologies. Effects of Large-Scale Systems on Small-Scale Societies*. Colloquia on Critical Ecologies, Harvard Graduate School of Design.
- 2009 *How There Got To Be So Many of Us. Life History Perspectives on the Human Potential for Population Growth*. Center for Studies in Demography and Ecology, University of Washington.
- 2009 *How Young Is Too Young? Teen Motherhood and Fast Life Histories*. Connecticut College.
- 2009 *Early Life Histories: What Is Yet To Be Explained?* University of Connecticut.
- 2009 *Etnología Médica del Cuerpo y el Comportamiento: Demografía, Salud, Reproducción, Adaptación y Economía Pumé*. Instituto Venezolano de Investigaciones Científicas, Caracas, Venezuela (coauthor R. Greaves).
- 2009 *People Colonizing New Worlds*, discussant. Harvard Australian Studies Symposium.

- 2008 *Early First Birth among Pumé Foragers. Implications of a Pooled Energy Budget to Life History Tradeoffs*. International Union for the Scientific Study of Populations, Trade-offs in Female Life Histories, Bristol, England (coauthors R. Greaves and P. Ellison).
- 2008 *How Did They Get to be So Many of Us? A Pooled Energy Approach to Female Life History and Population Growth*. University of Utah.
- 2007 *Cooperative Breeding: Bringing Children into the Mix*. University of Connecticut.
- 2007 *Mortality, Maturity and Maternal Constraints*. Harvard University.
- 2007 *Time to Grow*. University of Missouri.
- 2007 *Cambios Demográficos y Económicos entre los Pumé: Implicaciones para el Futuro del Pueblo y Desarrollo Sostenible*. Escuela de Antropología, Universidad Central de Venezuela, Caracas, Venezuela (coauthor R. Greaves).
- 2006 *Small Scale Societies, Large Scale Changes. The Transitioning World of Maya Agriculturalists and Pumé Foragers*. University of Colorado.
- 2006 *Balancing Acts: Mortality, Maturity and Maternal Constraints among Maya Agriculturalists and Pumé Foragers*. University of Utah.
- 2006 *Tecnología y Subsistencia: Perspectivas Etnoarqueológicas entre Pumé Recolectores*. Departamento de Antropología, Instituto Venezolano de Investigaciones Científicas, Caracas, Venezuela (coauthor RD Greaves).
- 2006 *Uso de Tierras por Comunidades Pumé Semi-Nómadas*. Ministerio del Ambiente, Dirección General de Planificación y Ordenación Ambiental, Caracas, Venezuela (coauthor RD Greaves).
- 2004 *Does it Take a Family to Raise a Child?* Annual Biosocial Society Symposium. University College London.
- 2003 *The Puzzle of High Fertility. The Reproductive Ecology of Maya Farmers*. University of Arizona.
- 2003 *Changing Dynamics in the Reproductive Ecology of Maya Families*. University of Pennsylvania.
- 1999 *Application of Demographic Measures to Anthropological Issues*. University of California, Berkeley.

Invited & Contributed Conference Presentations

* student presentation

- *2023 *Is Adolescent Sleep Quality Higher in WEIRD-like Contexts?* Human Biological Anthropology annual meeting, Reno, A Silva-Caballero 1st author
- *2022 *Non-WEIRD Circadian Rhythms: Is There an Adolescent Shift in Sleep Timing?* Human Biological Anthropology annual meeting, Denver. A Silva-Caballero 1st author (recipient of EE Hunt award)
- 2022 *Articulating Climate Science, Archaeology & Ethnography to Predict Good and Bad Harvest Years for Maya Farmers*, WEISIPS, Sevilla.

- 2022 *The Savvy Hunter-Gatherer. Self-determination, Humanist Perspectives and Scientific Views from Pumé Foragers of the Venezuelan Llanos*, invited session, CHAGS 13, Dublin.
- 2022 *To Live with or without Kin. How Dispersal and Relatedness Shape Cooperative Networks and Reproductive Conflict among Savanna Pumé Hunter-Gatherers*, CHAGS 13, Dublin.
- 2021 *Living in Groups*, symposium organizer, chair, American Anthropological Association, Baltimore.
- 2021 *What Conflicts of Interest within Families Tell Us About Adaptive Childhoods*, American Anthropological Association, Baltimore.
- 2021 *Fertility Variance and Inequality Over the Course of the Demographic Transition*, American Anthropological Association, Baltimore. 1st author J Hackman (recipient EAS early career award).
- 2021 *Children Foraging in a Changing World*, roundtable. American Anthropological Association, Baltimore, Organizer: S Lew-Levy.
- 2021 *Let's Get Back to the Marketplace and Meet in the Middle! Future Directions for Studying Rural and Urban Goods Marketplaces*, hosted podcast, American Anthropological Association, Baltimore, Organizers: KE Demps & B Tucker.
- 2021 *Building Virtue: Environmental and Social Influences on the Development of Fairness, Forgiveness, Honesty and Trustworthiness*. Discussant. J Templeton Foundation & Boston University.
- *2021 *Female Social Networks: Patterns and Diversity across Societies and Implications for Human Evolution*, symposium co-organizer, chair with SA Fox (UNM) American Association of Physical Anthropologists.
- *2021 *Early Life Conditions Shape Urban vs. Rural Maya Children's Growth Outcomes*, American Association of Physical Anthropologists, virtual. L Christopher 1st author.
- 2021 *Kin Network Effects on Dispersal at Marriage for Female Pumé Hunter-Gatherers*, American Association of Physical Anthropologists, virtual. J Hackman 1st author.
- 2021 *Scaling Climate Change to Human Behavior. Predicting Good and Bad Years for Maya Farmers*, American Association of Physical Anthropologists, virtual.
- 2021 *Ontogeny of Adiposity in a Hunter-Gatherer Population*. Human Biology Association, (virtual). BC Campbell 1st author.
- *2021 *Is There an Adolescent Phase Shift in Sleeping Patterns in non-WEIRD Societies?* Human Biology Association, (virtual). A Silva-Caballero 1st author.
- 2020 *What Conflicts of Interest within Families Tell Us About Adaptive Childhoods*. American Anthropological Association, St Louis. (canceled)
- 2020 *The Structure of Fertility Variance in the Context of the Demographic Transition*. (1st author J Hackman). American Anthropological Association, St Louis. (canceled)

- 2020 *Living with Environmental Uncertainty. Reproductive and Economic Decision Making among Maya Farmers*. Invited session on human responses to climate change. American Association of Physical Anthropologists, Los Angeles. (canceled)
- 2020 *Adult Sex Ratios & Partner Scarcity in Hunter-Gatherers. Implications for Human Sociality*. Pyrenean Interdisciplinary Research Conference, Ax les Thermes.
- *2020 *Variation in Adolescent Sleep: Sleeping Behaviour among Mayan Juveniles*. 1st author A Silva-Caballero. Human Biology Association, Los Angeles. (canceled)
- 2019 *Fertility Variance, Not Decline, Characterizes the Early Demographic Transition*. Demography Summit, Brigham Young University.
- 2019 *Cooperative Childhood Model. Child Development in Traditional Societies*. Society for Psychological Anthropology, Santa Ana.
- 2019 *Comparisons of C-reactive Protein and Metabolic Syndrome in First Generation US Immigrants And Those Remaining in Home Communities in Ecuador* (H Shattuck-Heidorn 1st author). Human Biology Association, Cleveland.
- 2018 *Water & the Built Environment. Continuity & Change in the Lives of Contemporary Maya*. MesoAmerica Conference, University of Utah, Salt Lake City.
- 2018 *Learning While Doing. Children Becoming Productive and Cooperative Foragers*. American Anthropological Association, San Jose.
- 2018 *Lives of Rural Maya. Continuity with the Past & Issues They Face Today*, Natural History Museum of Utah, Salt Lake City.
- 2018 *Fertility Variance Not Decline Characterizes the Early Demographic Transition*. Population Association of America, Denver.
- 2018 *Growth & Family Size Tradeoffs. Demonstrating Statistical vs Biological Significance*. American Association of Physical Anthropologists, Austin.
- *2018 *Chimpanzees are Fatter than You Think: Differences in Regional Body Fat Deposition between Hunter-Gatherers and Captive Chimpanzees*, (1st author A Achenbach). American Association of Physical Anthropologists, Austin.
- 2018 *Birth across the Epidemiological Transition: Implications for Infant Growth and Gut Microbiome Assembly*, (1st author A Veile). American Association of Physical Anthropologists, Austin.
- *2018 *Causes and Consequences of Cesarean Birth in Yucatec Maya Subsistence Farmers*, (1st author S Tuller). American Association of Physical Anthropologists, Austin.
- 2018 *Ethnoarchaeology of Water Resources in a Landscape without Rivers: Using Limestone Solution Cavities to Study Settlement and Subsistence Activities in a Yucatec Maya community, Mexico*, (1st author RD Greaves). Society for American Archaeology, Washington D.C.

- 2018 *Why Savanna Pumé Foragers Retain a Hunting and Gathering Way of Life*. Society for Cross-Cultural Research, Las Vegas.
- 2017 *Adult Sex Ratios and Partner Scarcity among Hunter-Gatherers: Implications for the Evolution of Dispersal Norms in Small Populations*. American Anthropological Association, Washington D.C.
- 2017 *Mating Competition, Mobility, and Wayfinding: A Comparison of Three Societies*, (1st author E Cashdan). HBES, Boise.
- 2017 *Too Many Men? Too Many Women? Effects of Sex-Ratio Imbalance on Marriage and Family Formation*, (1st author R Schacht). Population Association of America, Chicago.
- *2017 *Child Physical Activity during the Economic Transition among Small-Scale Populations*, (1st author SS Urlacher). Population Association of America, Chicago.
- 2017 *Sex Ratio Imbalance Affects Marriage and Reproductive Decisions among Pumé Hunter-Gatherers*. American Association of Physical Anthropologists, New Orleans.
- *2017 *Seasonal Fluctuation in Body Fat Sexual Dimorphism among Pumé Hunter-Gatherers*, (1st author A Achenbach). American Association of Physical Anthropologists, New Orleans.
- 2017 *Objectively Measured Childhood Physical Activity among Small-Scale Populations*, (1st author SS Urlacher). American Association of Physical Anthropologists, New Orleans.
- 2017 *Cesarean Births Modulate Indigenous Children's Growth in Rural and Urban Settings*, (1st author A Veile). Human Biology Association, New Orleans.
- 2017 *Continued Hunter-Gatherer Independence in an Inhospitable Environment and Troubled Economy: Savanna Pumé Foragers of the Venezuelan Llanos*, (1st author RD Greaves). Society for Applied Anthropology, Santa Fe.
- 2016 *It's Not Always What It Seems. How Field Work Challenges our Perspectives and Tests our Expectations*. American Anthropological Association, Minneapolis.
- 2016 *The Hygiene Hypothesis: Birth and Beyond*, (1st author A Veile). American Anthropological Association, Minneapolis.
- *2016 *The Financial Hunter-Gatherer: How do Foragers Diversify their Dietary Portfolios?* (1st author E Otárola-Castillo). American Association of Physical Anthropologists, Atlanta.
- 2016 *Cooperative Breeding and the Costs and Benefits of Infant Allocare in Hunter-Gatherers and Agriculturalists*. Invited session, American Association of Physical Anthropologists, Atlanta.
- 2016 *Human Grooming in Phylogenetic Perspective: Grooming Rates and Dyad Composition in Six Traditional Societies in Comparison to Other Primates*, (1st author AV Jaeggi). American Association of Physical Anthropologists, Atlanta.
- *2016 *Secular Change in Childhood Time Allocation, Energy Expenditure and Growth among Rapidly Modernizing Indigenous Maya*, (1st author SS Urlacher). Human Biology Association, Atlanta.

- 2016 *Changing Birth Dynamics in Yucatan: Do Cesarean Births Undermine Child Health?* (1st author A Veile). Human Biology Association, Atlanta.
- 2015 *Using Modern Hunter-Gatherer Data and Modeling Tools to Resolve Debates about Life History Evolution*. Invited plenary session, Conference on Hunting & Gathering Societies, Vienna.
- 2015 *Why Pumé Foragers Retain a Hunting & Gathering Way of Life on a Transitional Landscape*. Invited plenary session, Conference on Hunting & Gathering Societies, Vienna.
- 2015 *The First Cut is the Deepest: Cesarean Births Influence Demographic Outcomes in a Yucatec Maya Community*, (1st author A Veile). American Anthropological Association, Denver.
- 2015 *Diverging Life History Strategies within Transitioning Populations: Exploring Wealth Stratification, Formal Education, and Fertility Differentials*, (1st author HE Davis). American Anthropological Association, Denver.
- 2015 *Patterns of Family Formation in Response to Sex Ratio*, (1st author R Schacht). Human Behavior and Evolution Society, Columbia.
- 2015 *Evidence of Diverging Strategies within Transitioning Populations: Wealth Stratification, Formal Education, and Fertility Differentials in Two Small Scale Societies*, (1st author HE Davis). Human Behavior and Evolution Society, Columbia.
- 2015 *Play, Learning, Games, and Chaos: Ethnoarchaeology of Children's Contributions to Archaeological Site Formation*, (1st author RD Greaves). Society for American Archaeology, San Francisco.
- 2015 *The Emergence of Inequality: Wealth Stratification & Fertility Differentials in a Small-Scale Maya Society*, Northwest Evolution, Ecology and Human Behavior Symposium, Boise.
- 2015 *Why Evolutionary Changes in Juvenile Energetics Matter to Human Life Histories*. Invited session, American Association of Physical Anthropologists, St Louis.
- *2015 *Children's Enforcement and Internalization of Fairness Norms across Cultures*, (1st author K McAuliffe). Society for Research in Child Development, Philadelphia.
- 2014 *Ethnoarchaeology of Hunters and Gatherers' Subsistence Diversification through the Use of Cultivated Foods: Behavioral Rather than Definitional Views of Dietary Flexibility among Pumé Foragers of Venezuela* (1st author R Greaves). Invited session, ICREA, Barcelona.
- 2014 *Why Are Humans Such a Cooperative Species?* Panel discussant. Invited session, American Anthropological Association, Washington D.C.
- 2014 *The Ecology of Breastfeeding and Infant Health in the Yucatan*, (1st author A Veile). American Anthropological Association, Washington D.C.
- *2014 *Longitudinal Change in Childhood Time Allocation, Physical Activity Level, and Anthropometry in a Rapidly Modernizing Indigenous Maya Community*, (1st author S Urlacher). American Anthropological Association, Washington D.C.

- 2014 *String Figures and Dominant Cords: Tying Ethnoarchaeological Views of the Hunter-Gatherer Fiber Use with Technological Organization and Economy*, (1st author RD Greaves). Invited session, Society for American Archaeology, Austin.
- 2014 *Early Childhood in Yucatan Maya Subsistence Agriculturalists*, (1st author A Veile). American Association of Physical Anthropologists, Calgary.
- 2013 *Ethnoarchaeological Observations of Resource Tradeoffs. Using Savanna Pumé Hunter-Gatherer Subsistence Choices to Model Archaeological Diets*, 1st author RD Greaves). Society for American Archaeology, Honolulu.
- 2013 *Empirical Analysis of Network Structure and Wealth Inequality: First Steps*, (1st author P Hooper). Santa Fe Institute, Santa Fe.
- 2012 *Changing Patterns of Child Growth and the Role of Disease Ecology in Maya Agriculturalists*, (1st author A Veile). Human Biology Association, Portland.
- 2011 *A View from Behavioral Ecology. The Interaction of Behavior and Biology in the Evolution of Sex Roles*. Invited session. Association of Psychological Science, Washington D.C.
- 2011 *Teen Motherhood and Fast Life Histories*. Invited session on Evolution and Health across the Life Course. American Association of Physical Anthropologists, Minneapolis.
- 2010 *Human Cooperative Breeding: The Challenge of Intergenerational Resource Flows*. Invited symposium on Are Humans Cooperative Breeders. International Behavioral Ecology Congress, Perth, Australia.
- 2010 *Lewis Binford's Interdisciplinary Reach. Deeping the Dialogue between Ethnography and Human Behavioral and Biological Variability*. Invited session, Society for American Archaeology, Saint Louis.
- 2009 *Matrilocality, Kin Networks and Family Life Cycles among Pumé Foragers*, Invited session, American Anthropological Association, Philadelphia.
- 2009 *Persistence of Wild Plant Resources in the Shift to Horticulture*. Society for American Archaeology, Atlanta.
- *2009 *Human Life History. Implications of a Pooled Energy Budget* (1st author K Sharrock). American Association of Physical Anthropologists, Chicago.
- 2008 *Middle Childhood among Pumé Girls. Pooled Energy, Time Budgets and Growth Patterns*, Invited session, American Anthropological Association, San Francisco.
- 2007 *How Young is Too Young? Early First Birth and Implications to Fitness among Pumé Foragers of Venezuela*. Invited session, Human Behavior and Evolution Society, Williamsburg.
- 2006 *The Rapid Pace of Human Reproduction: Furthering a Demand and Opportunity for Cooperative Breeding*. Invited session, Human Behavior and Evolution Society, Philadelphia.
- *2006 *Counting Women's Labor: A Reanalysis of Children's Net Production in Mead Cain's Bangladeshi Village*, (1st author R Sullivan, co-author RD Lee). Population Association of America, Los Angeles.

- 2005 *Implications of Ethnographic Variation among Indigenous Populations to Public Health Approaches: The Example of Pumé Foragers and Agriculturalists*, (co-author RD Greaves). Invited session, Society for Applied Anthropology, Santa Fe.
- 2004 *Understanding Dynamics of Human Resource-use and Their Effects on Rainforest Conservation in Madagascar: Preliminary Results from Ranomafana National Park*, (1st author C Holmes, co-authors P Wright, T Keitt & S Johnson). Society of Conservation Biology, NYC.
- *2004 *Biodiversity and Anthropogenic Disturbance at Ranomafana National Park, Madagascar*, (1st author S. Johnson). Society of Conservation Biology, NYC.
- 2002 *Demographic Changes and the Timing of Wealth Flows across the Life Cycle of Maya Families*. American Anthropological Association, New Orleans.
- 2002 *Children and the Elderly in the Economic Life Cycle of the Household: A Comparative Study of Three Groups of Horticulturalists and Hunter-Gatherers* (1st author RD Lee). Invited session, Population Association of America, Atlanta.
- 2001 *A Reevaluation of the Relationship between Subsistence Intensification and Fertility: Maya Household Demographic Composition, Labor Organization and Family Size*. Invited session, Society for American Archaeology, New Orleans.
- 2001 *Demographic Influences on Resource Allocation in Maya Households* (1st author RD Lee). Population Association of America, Washington DC.
- 2000 *Women's Work, Fertility and the Introduction of Modern Technology in a Rural Maya Village*. Invited session, American Anthropological Association, Chicago.
- 1999 *Maya Mothers: Children's Work and Maternal Tradeoffs*. American Anthropological Association, Chicago.
- 1999 *Does Children's Work Increase Household Production?* (co-author JL Boone). Invited session, Human Behavior and Evolution Society, Salt Lake City.
- 1999 *Children's Work and Family Size among Subsistence Agriculturalists* (co-author JL Boone). Society of Cross-Cultural Research, Santa Fe.
- 1998 *Production and Consumption among Maya Children: Implications to the Duration of Parental Care and Family Size*. American Anthropological Association, Philadelphia.
- 1996 *Reproductive Strategies among Maya Women: Time Reallocation as a Response to Changing Technology* (co-author GP McMillan). American Anthropological Association, San Francisco.
- 1996 *Fetal Alcohol Syndrome: New Mexico Anthropometric Growth Survey* (1st author J Powers). American Association of Physical Anthropologists, Durham.
- 1994 *Demographic Changes and Technological Shifts in a Modern Maya Village*. American Anthropological Association, Atlanta.

Research Projects and Working Research Groups

- 2020-ongoing *Adaptation, Optimality, and Risk Management: What Do the Human Evolutionary Sciences and the Climate Sciences Have to Offer Each Other?* A Pisor, J Jones (PIs), workshops funded by the National Socio-Environmental Synthesis Center (SESYNC).
- 2020-2021 *Building Virtue*. K McAuliffe, L Young (PIs), workshops funded by Boston College and J Templeton Foundation.
- 2016-2019 *Risk Sensitive Decision Making among Maya Farmers: Diversification in Response to Novel Environments*, KL Kramer (PI). Collaborators: JV Hackman, R Schacht, R Greaves, A Veile, HE Davis.
- 2010-2014 *Emerging Differences in Children's Economic Roles and Parental Investment through the Fertility Transition of Maya Farmers*, KL Kramer (PI). Research among Yucatec Maya to investigate the influence of emerging market economics on children's lives, reproductive patterns, agricultural practices and the introduction of wealth stratification. Collaborators: R Greaves, A Veile, S Urlacher.
- 2016-ongoing *Economic Network Dynamics and the Origin of Wealth Inequality (ENDOW)*, J Koster (PI, Co-PIs S Bowles, M Jackson, M Borgerhoff Mulder), Santa Fe Institute, University of Cincinnati). NSF 1620416, Collaborators: 40 field researchers.
- 1992-ongoing *Longitudinal Maya and Pumé Life History Project*. KL Kramer (PI). Collaborators: R Greaves, C Dore, D Griffin, J Hackman, R Schacht, A Veile, E Otárola-Castillo, HE Davis.
- 2014-2016 *Age Changes and Sex Differences in Spatial Cognition*, Elizabeth Cashdan (PI, University of Utah). Collaborators: SH Creem-Regehr, JK Stefanucci, E Barhorst-Cates, HE Davis, LS Sugiyama, KN Herlosky, AN Crittenden.
- 2013-2015 *The Developmental Origins of Human Cooperation*, F Warneken (PI, Harvard University). Collaborators: PR Blake, K McAuliffe, T Callaghan, J Corbit, O Barry, A Bowie, L Kleutsch, E Ross, H Vongsachang, R Wrangham.
- 2011-2015 *The Dynamics of Wealth Inequality and Polygyny Paradox Project*, S Bowles & M Borgerhoff Mulder (PIs, Santa Fe Institute). Collaborators: Baldini, R, BA Beheim, H Colleran, M Gurven, SM Mattison, DA Nolin, B Scelza, R Sear, MK Shenk, and others (1st ten listed).
- 2005-2009 *Cross-Cultural Study of Demographic Processes in Transitional Subsistence Economies*. KL Kramer (PI). Collaborators: R Greaves, O Burger, A Veile. Research among Savanna Pumé foragers and River Pumé horticulturalists for comparative study of economic and ecological influences on subsistence ecology, social organization, reproduction and demography.
- 2003-2007 *Integrating Dynamics of Human Resource Use and their Effects on Rainforests in Madagascar*, P Wright (PI, Stony Brook University). Co-PI, directed the socioeconomic arm of this interdisciplinary project that involved collecting longitudinal demographic, ethnographic, economic and land use data from highland Tanali villages to evaluate the relationship between economic decision making, population growth and deforestation.

- 1994-1996 *Fetal Alcohol Syndrome Anthropometric Survey*, A Falsetti (PI Department of Pediatrics, University of New Mexico). Co-project director, responsible for developing and coordinating all aspects of human-subjects research in which over 10,000 children were interviewed and measured to develop comparative anthropometric models of growth and development.
- 1993, 1996 Research fellow, Repatriation Office of the Smithsonian Institution, National Museum of the American Indian. Project involved participating in a task force to define repatriation issues and document the cultural and curatorial history of the museum's prehistoric human remains and associated grave goods from the American Southwest.
- 1992-1993 *Maya Time Allocation Project*, KL Kramer (Project director). Collaborators: C Dore. Dissertation research focused on quantifying children's economic and cooperative roles in underwriting high fertility using time allocation, return rate, demographic and economic data collected in a Maya subsistence agricultural village in Yucatan, Mexico.
- 1979-1991 Principle investigator, project director, research consultant, lab director and excavation director for various archaeological research projects conducted by the University of New Mexico, New York State Museum, American Museum of Natural History, National Park Service, the University of Nebraska and the Midwest Archaeological Center. This research included the publication of over 25 archaeological technical reports and book chapters.

Postdoctoral Advisees

Joseph Hackman (ASU PhD), University of Utah (2019-ongoing)

Ryan Schacht (UC Davis PhD), University of Utah (2015-2018)
Current position: Assistant professor, Eastern Carolina University

Helen Davis (UNM PhD), University of Utah (2016-2017)
Current position: Postdoctoral fellow, Harvard University

Erik Otárola-Castillo (Stony Brook PhD), Harvard University (2009-2011)
Current position: Assistant Professor, Purdue University

Amanda Veile (UNM PhD), Harvard University (2010-2011)
Current position: Assistant professor, Purdue University

Christopher Holmes (UC Davis PhD), Stony Brook University (2003-2004)
Current position: Wildlife Conservation Society, Regional director

Completed Ph.D advisees (committee member)

Heather Shattuck-Heidorn (2017) Department of Human Evolutionary Biology, Harvard University.
Current position: Assistant Professor, University of Southern Maine

Erik Otárola-Castillo (2017) Department of Anthropology, Stony Brook University.
Current position: Assistant professor, Purdue University

Sam Urlacher (2016) Department of Human Evolutionary Biology, Harvard University.
Current position: Assistant professor, Baylor University

Luke Glowacki (2015) *Incentives for War in Small-Scale Societies*, Ph.D. dissertation, Harvard University.
Current position: Assistant Professor, Penn State.

Jade d'Alpoim Guedes (2013) *Adaptation and Invention during the Spread of Agriculture to Southwest China*, Ph.D. dissertation, Harvard University.
Current position: Assistant Professor UC San Diego.

Brenda Reiss-Brennan (2013) *Integrating Mind and Body Healing into Primary Care*, Ph.D. dissertation, University of Utah.

Meredith Reiches (2012) *Female Adolescent Energy Expenditure in the Gambia*, Ph.D. dissertation, Harvard University.
Current position: Assistant Professor, Boston University.

Amanda Veile (2011) *The Evolutionary Ecology of Human Infancy*, Ph.D. dissertation, University of New Mexico.
Current position: Assistant Professor, Purdue University.

Brian Wood (2010) *Household and Kin Provisioning by Hadza Males*, Ph.D. dissertation, Harvard University.
Current position: Assistant Professor, UCLA.

Zarin Machanda (2009) *The Ecology of Male-Female Social Relationships among East African Chimpanzees*, Ph.D. dissertation, Harvard University.
Current position: Assistant professor, Tufts University.

Yoshiko Abe (2005) *Hunting and Butchery Patterns of the Evenki in Northern Transbaikalia, Russia*, Ph.D. dissertation, Stony Brook University.
Current position: International Development Consultant, Yokohama, Japan.

Current Ph.D & Masters students

Thomas Chia, Department of Anthropology, University of Utah (chair)
Angelina DeMarco, Department of Anthropology, University of Utah (chair)
Blanca Yagüe, Department of Anthropology, University of Utah (advisor)
Andrea Silva-Caballero, Department of Anthropology, Durham University (advisor)

Alan Achenbach, Department of Anthropology, University of Utah (MA chair)
Cecilia Padilla-Eglesiás, Department of Archaeology, Cambridge University (MA advisor)

Phoebe Spencer, Department of Anthropology, University of Western Australia (Doctoral jury)
Fall 2018; Dr. Debra Judge, chair

Guillermo Zorrilla Revilla, Universidad de Burgos, Spain (Doctoral jury) Spring 2022; Dra. Ana Mateos Cachorro & Dr. Jesús Rodríguez Méndez, thesis advisors

Advisory & Editorial Boards, Select Service

- President, Evolutionary Anthropology Society, American Anthropological Association (2022-ongoing)
- President elect, Evolutionary Anthropology Society, American Anthropological Association (2019-2022)

- Program Committee, Chair, American Anthropological Association, EAS section (2019-2022)
- Governing board, Evolutionary Anthropology Society, American Anthropological Association (2013-2017)
- Editorial board, Evolutionary Anthropology 2017-ongoing
- Editorial review for EMPH, AJHB, AJPA, HN, Ecology & Society; Guest editor for PNAS
- Grant review for NSF, Leakey Foundation, Wenner-Gren Foundation

- University of Utah Promotion and Advisory Committee (2021-ongoing)
- University of Utah Review, Promotion and Tenure Committee (2018-2020)
- University of Utah Education Curriculum Committee (2014-2017)
- Department of Anthropology Curriculum Committee (2012-2019)
- Department of Anthropology Workload Committee, (2017-ongoing)

Ethnographic Database Collection & Sharing

Projects to which I have donated my Maya and Pumé field data for collaborative study
Listed by Project name, Year, and Project PI

- Causal models of human growth (2023-ongoing), C Fernández, PI
- Fertility & Subsistence (2021-ongoing) A Page, PI
- The effect of social networks on inequality: A longitudinal cross-cultural investigation
ENDOW (2017-ongoing), J Koster, PI
- Reproductive skew (2019), L Betzig, PI
- Risk preferences (2019), D Amir, PI
- Pedigree (2018), J Koster, PI
- Children's time allocation (2018), S Lew-Levy, PI
- Marital assortment (2016), M Shenk, PI
- Reproductive skew (2016), P Hooper, PI
- Determinants of reproductive success (2015), R Sear, PI
- Spatial data (2014), E Cashdan, PI
- Marriage partners (2013), B Skelza, PI
- Growth & development (2013), R Walker, PI
- Adult sex ratios (2013), R Schacht
- Hunting return rates (2013), J Koster, PI
- Wealth decomposition (2012), B Beham
- Wealth transmission (2012), Bowles & Borgerhoff Mulder, PIs
- Subsistence inequality and reproductive success (2012), P Hooper & H Kaplan, PIs
- Polygyny and Inequality (2012), Borgerhoff-Mulder, PI
- Men's social networks (2012), Bowles & Borgerhoff-Mulder, PIs
- Wealth inequality (2011,2014), Bowles & Borgerhoff Mulder, PIs