

Daniel C. Benyshek

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RESEARCH INTERESTS

I am a medical and nutritional anthropologist interested in the central role maternal diet plays in human health and disease. I have conducted both experimental animal research, as well as clinical and ethnographic studies with human research participants to explore the linkages between maternal diet during and immediately after pregnancy, and subsequent maternal and child health. Specifically, I am interested in how social, political, and economic factors can impact human biology and then manifest as ethnic health disparities in obesity-related disease prevalence around the globe, especially among aboriginal populations, including American Indians and Alaska Natives. I am also interested in complementary, alternative, and indigenous health systems in general, and how – and why – human maternal placentophagy has emerged as an alternative maternal health practice, in particular.

AREAS OF RESEARCH SPECIALIZATION

My research is informed by the principals of evolutionary medicine, including phenotypic plasticity as reflected in the developmental origins of health and disease. My work is further informed by ethnomedicine, political ecology, and the goals of an applied medical anthropology to improve public health.

EDUCATION

PhD	Arizona State University	Tempe, AZ	Anthropology	2001
MA	Arizona State University	Tempe, AZ	Anthropology	1993
BA	University of Colorado	Denver, CO	Anthropology	1989

ACADEMIC APPOINTMENTS

- 2018 – Present **Chair**, Department of Anthropology, University of Nevada Las Vegas (UNLV).
2016 – Present **Professor**, Department of Anthropology, University of Nevada Las Vegas (UNLV).
2016 – Present **Adjunct Professor**, UNLV School of Medicine.
2001 – Present **Co-Director**, Nutrition and Reproduction Laboratory, UNLV
2008 – 2016 **Associate Professor**, Department of Anthropology, UNLV
2001 – 2008 **Assistant Professor**, Department of Anthropology, UNLV.

PUBLICATIONS

PEER REVIEWED JOURNAL ARTICLES AND BOOK CHAPTERS:

*Denotes student coauthor

- 2020 *Kristen N. Herlosky, **Daniel C. Benyshek**, Ibrahim A. Mabulla, *Trevor R. Pollom, and Alyssa N. Crittenden, "Postpartum maternal mood among the Hadza foragers of Tanzania: a mixed methods approach" *Culture, Medicine, and Psychiatry* 44(3):305-332. doi: 10.1007/s11013-019-09655-4.
- 2019 Sharon M. Young, *Laura K. Gryder, Chad L. Cross, David Zava, Wendy Norris, and **Daniel C. Benyshek**, "Ingestion of Steamed and Dehydrated Placenta Capsules Does Not Affect Postpartum Plasma Prolactin Levels or Neonatal Weight Gain: Results from a Randomized, Double-Bind, Placebo-Controlled Pilot Study" *Journal of Midwifery and Women's Health*. 64(4):443-450. DOI:10.1111/jmwh.12955
- 2018 **Daniel C. Benyshek**, Melissa Cheyney, Jennifer Brown, and Marit L. Bovbjerg. "Placentophagy among Women Planning Community Births in the United States: Frequency, Rationale, and Associated Neonatal Outcomes" *Birth: Issues in Perinatal Care* 45:459-468
<http://doi.org/10.1111/birt.12354>.
- Sharon M. Young, *Laura K. Gryder, Chad Cross, David Zava, David W. Kimball, **Daniel C. Benyshek**. "Effects of Placentophagy on Maternal Salivary Hormones: A Pilot Trial, Part 1". *Women and Birth* (2018) 31(4):e245-e257, <https://doi.org/10.1016/j.wombi.2017.09.023>.
- Sharon M. Young, *Laura K. Gryder, Chad Cross, **Daniel C. Benyshek**. "Placentophagy's Effects on Mood, Bonding, and Fatigue: A Pilot Trial, Part 2". *Women and Birth* (2018) 31(4):e258-e271
<https://doi.org/10.1016/j.wombi.2017.11.004>.
- 2017 *Laura Gryder, *Sharon M. Young; David Zava, Wendy Norris, Chad Cross, and **Daniel C. Benyshek**, "Effects of Human Maternal Placentophagy on Maternal Postpartum Iron-Status: A Randomized, Double Blind, Placebo Controlled Pilot Study" *Journal of Midwifery and Women's Health*. Jan;62(1):68-79. doi: 10.1111/jmwh.
- 2016 *Sharon M. Young, *Laura Gryder, *Winnie David, Yuanxin Teng, Shawn Gerstenberger, and **Daniel C. Benyshek**. "Human Placenta Processed for Encapsulation Contains Modest Concentrations of Fourteen Trace Minerals and Elements" *Nutrition Research*. 36:872-878.
- *Sharon M. Young, Laura K. Gryder, David Zava, David W. Kimball, and **Daniel C. Benyshek**. "Presence and Concentration of 17 Hormones in Human Placenta Processed for Encapsulation and Consumption" *Placenta* 43:86-89.
- 2015 **Daniel C. Benyshek**, "Maternal Diet, Developmental Origins, and the Intergenerational Transmission of Cardiometabolic Traits: A Window of Opportunity for the Prevention of Metabolic Syndrome?" In Metabolic Syndrome and Complications of Pregnancy, B. Sears and E. Ferrazzi (eds). Elsevier: Springer pp. 181-201.

- 2015 *Celeste Giordano and **Daniel C. Benyshek**, “DOHaD research with populations in transition: a case study of prenatal diet remote recall with Yup'ik Alaskan women” *Journal of the Developmental Origins of Health and Disease*. 6(2):79-87.
- 2014 **Daniel C. Benyshek**, *Julie J. Kachinski, and *Hongbin Jin, “F0 prenatal/lactation diets varying in saturated fat and long-chain polyunsaturated fatty acids alters the insulin sensitivity of F1 rats fed a high fat western diet postweaning” *Open Journal of Endocrine and Metabolic Diseases*, 4(12):245-252.
- *Julie J. Kachinski, *Hongbin Jin, and **Daniel C. Benyshek**, “F1 offspring of (F0) female rats fed a high saturated-fat, prenatal/lactation diet remain insulin resistant despite postnatal diet rich in omega-3 polyunsaturated fatty acids. *Open Journal of Endocrine and Metabolic Diseases*, 4(12):258-264
- 2013 **Daniel C. Benyshek**, “The ‘early life’ origins of obesity-related health disorders: New discoveries regarding the intergenerational transmission of developmentally programmed traits in the global cardiometabolic health crisis” *American Journal of Physical Anthropology*, 152(S57):79–93.
- Daniel C. Benyshek**, Michelle Chino, Carolee Dodge-Francis, *Hongbin Jin, *Toricellas O. Begay, and *Celeste Giordano. “Prevention of Type 2 Diabetes in Urban American Indian/Alaskan Native Communities: the Life in BALANCE Pilot Study” *Journal of Diabetes Mellitus*, 3(4):184-191.
- Jodi Selander, *Allison Cantor, *Sharon M. Young, and **Daniel C. Benyshek**, “Human Maternal Placentophagy: A Survey of Self-Reported Motivations and Experiences Associated with Placenta Consumption” *Ecology of Food and Nutrition*, 52(2): 93-115.
- *Hongbin, Jin, and **Daniel C. Benyshek**, “The ‘Metabolic Syndrome Index’: a novel, comprehensive method for evaluating the efficacy of diabetes prevention programs” *Journal of Diabetes Mellitus*, 3(2):96-99.
- 2012 *Sharon M. Young, **Daniel C. Benyshek** and Pierre Lienard, “The Conspicuous Absence of Postpartum Placenta Consumption in Human Females: The Fire Hypothesis” *Ecology of Food and Nutrition*, 51(3):198-217.
- 2010 **Daniel C. Benyshek**, “The Use of Dried Blood Spots: An Ideal Tool for Medical Anthropology 'In the Field'”. *Journal of Diabetes Science and Technology* 4(2):255-257
- *Sharon M. Young and **Daniel C. Benyshek**, “In Search of Human Placentophagy: A Cross-Cultural Survey of Human Placenta Consumption, Disposal Practices and Cultural Beliefs” *Ecology of Food and Nutrition*. 49(6):467-84.
- 2008 **Daniel C. Benyshek**, Carol S. Johnston, John F. Martin, and *William D. Ross, “Insulin sensitivity is normalized in the third generation (F3) offspring of developmentally programmed insulin resistant (F2) rats fed an energy-restricted diet” *Nutrition and Metabolism* 5:26

- 2007 **Daniel C. Benyshek**, "The Developmental Origins of Obesity and Related Health Disorders: Prenatal and Perinatal Factors" *Collegium Antropologicum* 31(1):11-17.
- 2006 **Daniel C. Benyshek** and *James T. Watson, "Exploring the Thrifty Genotype's Food Shortage Assumptions: A Cross-Cultural Comparison of Ethnographic Accounts of Food Security among Foraging and Agricultural Societies" *American Journal of Physical Anthropology* 131(1): 120-126.
- Daniel C. Benyshek**, Carol S. Johnston and John F. Martin, "Glucose Metabolism is Altered in The Adequately-Nourished Grand-Offspring (F3 Generation) of Rats Malnourished During Gestation and Perinatal life" *Diabetologia* 49(5):1117-1119.
- 2005 **Daniel C. Benyshek**, "Type 2 Diabetes and Fetal Origins:The Promise of Prevention Programs Focusing on Prenatal Health in High Prevalence Native American Communities" *Human Organization* 64(2):192-200.
- 2004 **Daniel C. Benyshek**, Carol S. Johnston and John F. Martin, "Post-Natal Diet Determines Insulin Resistance in Fetally Malnourished, Low Birthweight Rats (F1) but Diet Does not Modify the Insulin Resistance of Their Offspring (F2)" *Life Sciences* 74:3033-3041.
- 2003 **Daniel C. Benyshek**, "The Nutritional History of the Havasupai Indians of Northern Arizona: Dietary Change and Inadequacy in the Reservation Era and Possible Implications for Current Health" *Nutritional Anthropology* 26(1-2):1-10.
- 2001 **Daniel C. Benyshek**, John F. Martin and Carol S. Johnston, "A Reconsideration of the Origins of the Type 2 Diabetes Epidemic among Native Americans and the Implications for Intervention Policy" *Medical Anthropology* 20(1):25-63.
- 2000 John F. Martin, Carol S. Johnston, Chung-Ting Han, and **Daniel C. Benyshek**, "Nutritional Origins of Insulin Resistance: A Rat Model for Diabetes-Prone Human Populations" *Journal of Nutrition* 130:741-44.
- 1997 L.A. Vaughan, **D.C. Benyshek** and J.F. Martin, "Food Acquisition Habits, Nutrient Intakes, and Anthropometric Data of Havasupai Adults." *The Journal of the American Dietetic Association* 97(11): 1275-1282.

PEER REVIEWED, PUBLISHED ABSTRACTS

- 2018 *KN Herlosky, **DC Benyshek**, AN Crittenden, "Postpartum Maternal Health and the Edinburgh Postnatal Depression Scale among the Hadza Foragers" *American Journal of Physical Anthropology* 165, 118-118.
- SM Young, LK Gryder, CL Cross, D Zava, W Norris, **DC Benyshek**, "No change in postpartum prolactin levels following ingestion of encapsulated placenta supplements" *American Journal of Human Biology* 30 (2).

- 2017 *Laura K Gryder, Sharon M Young, *Winnie B David, Yuanxin Teng, David Zava, David W Kimball, Shawn Gerstenberger, **Daniel C Benyshek**, "The Hormonal and Elemental Composition of Dehydrated Human Placenta Capsules" *American Journal of Physical Anthropology* 162: 204-204.
- Sharon M Young, *Laura K Gryder, Chad Cross, David Zava, David W Kimball, **Daniel C Benyshek**, "Placentophagy's Effects on Postpartum Maternal Affect, Health, and Recovery" *American Journal of Physical Anthropology* 162:418.
- 2016 **DC Benyshek**, "Down through the generations: the role of developmental programming in the intergenerational inheritance of cardiometabolic disease risk among high-prevalence populations" *American Journal of Physical Anthropology* 159:92.
- *LK Gryder, *SM Young, D Zava, D Kimball, **DC Benyshek**, "Effects of Human Maternal Placentophagy on Postpartum Iron-Status" *American Journal of Physical Anthropology* 159:163.
- 2014 *SM Young, **DC Benyshek**, "Assessing the risks of maternal placentophagy: An analysis of environmental metals in human placenta capsules" *American Journal of Physical Anthropology* 153, 280-280.
- *LK Gryder, *SM Young, P Lienard, **DC Benyshek**, "Exploring the human exception to maternal placentophagy among mammals: Assessing the visual and olfactory aversion to human placental tissue" *American Journal of Physical Anthropology* 153:132.
- 2007 **Daniel C. Benyshek**, "The effects of variation in maternal and postweaning diet on the intergenerational transmission of developmentally programmed insulin resistance over five generations in a rat model" *Early Human Development* 83(Suppl 1):S44
- Daniel C. Benyshek**, "The 'normalization' of intergenerationally transmitted, developmentally programmed traits in experimental animals: implications for adaptive hypotheses" *American Journal of Physical Anthropology* 132 (S44):72-3
- *RM Sanchez, JC Young, LJ Kruskall, **DC Benyshek**, "Delayed glucose response in the rat model: More evidence that a high protein diet alters glucose kinetics" *The FASEB Journal* 21(6):A384-385.
- 2005 **Daniel C. Benyshek**, "Two case-study challenges to the thrifty genotype hypothesis: an argument for expanding our etiological models of diabetes prone populations" *American Journal of Physical Anthropology* 126 (S40):73.
- 1994 L.A. Vaughan, **D.C. Benyshek** and J.F. Martin, "Food Acquisition and Intake Patterns of Young and Elderly Havasupai Adults." *The Federation of American Societies for Experimental Biology Journal* 8(4):A274.

LETTERS TO THE EDITOR/INVITED BOOK REVIEWS

- 2019 "Reply to Farr et al." Letter to the Editor of *Birth: Issues in Perinatal Care* 46(1):202-204. <https://doi.org/10.1111/birt.12381>.

- 2007 "Developmental Origins of Health and Disease" P Gluckman and M Hanson (eds). xxii + 519 pp. New York, NY: Cambridge University Press. 2006. Reviewed in, *American Journal of Human Biology* 19(3):455-56.

ARTICLE / BOOK MANUSCRIPTS CURRENTLY IN PROGRESS/UNDER REVIEW

Daniel C. Benyshek and Sharon M. Young. Consuming the Placenta: The Triple Riddle of Placentophagy's Evolutionary Foundations, Cross-Cultural Absence, and Recent Emergence as a Popular Trend. (In progress.) *Cambridge University Press.*

GRANTS/FUNDING

- 2010 Strategic Plan Graduate Research Assistantship (Human Maternal Placentophagy), 2010-2013. UNLV Graduate College. Principle Investigator supported by a three-year Graduate Research Assistantship, \$12,000 per year, totaling \$36,000.00
- 2009 National Institutes of Health (NIDDKD) grant funding a two-year, type 2 diabetes intervention study among urban Native Americans in southern Nevada. "Urban Indian diabetes prevention planning project" 1R34DK080258-01A2 (Co-Investigator.) \$431,626.00
- 2008 National Science Foundation (NSF) Experimental Program to Stimulate Competitive Research (EPSCoR) Undergraduate Research Opportunities Program (Faculty Mentor) \$6,000.00
- 2007 UNLV University Travel Fund Committee Grant. \$800.00
- 2006 National Science Foundation (NSF) grant sponsoring an invited symposium at the joint Annual Meetings of the American Association of Physical Anthropologists and the Human Biology Association, Philadelphia, PA, March 2007. BCS 0633960 (Co-Principle Investigator) \$13,429.00
- 2006 UNLV University Travel Fund Committee Grant. \$1,000.00
- 2004 University of Nevada Las Vegas Division of Research and Graduate Studies New Investigator Award funding an experimental animal model of the intergenerational transmission of type 2 diabetes (Principle Investigator) \$14,496. 00

ORGANIZED SYMPOSIA

- 2010 Co-organizer of a Society for Food and Nutrition (SAFN) and Biological Anthropology Society (BAS) jointly sponsored invited symposium: "Human Consumption of 'Afterbirth' (Maternal Placentophagy): A 'Natural' and Beneficial Practice?" 109th Annual meeting of the American Anthropological Association, November 17-21, New Orleans, LA.
- 2007 Co-organizer of a NSF-funded, American Association of Physical Anthropologists and Human Biology Association jointly sponsored invited symposium: "The Adaptable Phenotype and Biological Anthropology: Emerging Trends in the Study of Development, Genetics and Evolution," 76th Annual meeting of the American Association of Physical Anthropologists, March 28-31, Philadelphia, PA

INVITED PAPERS/POSTERS, PEER REVIEWED PAPERS/POSTERS

* Denotes presenter

- 2020 With *JC White, KN Herlosky, K Meighan, and AN Critenden “Cross-Cultural Approaches to the Management of Maternal Postpartum Pain.” Poster Presentation, Society for Cross Cultural Research, Seattle, WA, Feb 26th-29th.
- 2019 “Evolutionary Roots, Cross-Cultural Occurrence, and an Emerging Post-Industrial Health Trend” Invited lecture, Frederick Schiller University Medical School, Department of Obstetrics, Jena, Germany. March 14th.
- “Human Maternal Placentophagy: An Emerging Global Health Trend” Podium presentation for the Annual Meeting of the Society for Cross Cultural Research, Jacksonville, FL. Feb 13th – 16th.
- 2018 “Human Maternal Placentophagy: Evolutionary Roots, Cross-Cultural Occurrence, and an Emerging Post-Industrial Health Trend.” Invited presentation. Behavior, Evolution, and Culture speaker series, UCLA. October 29th.
- With S.M. Young, L.K. Gryder, C. Cross, D. Zava, and W. Norris. “No change in postpartum prolactin levels following ingestion of encapsulated placenta supplements.” Poster presentation, Human Biology Association Annual Meeting, Austin, TX, April 10th-13th
- With *K.N. Herlosky, and A.N. Crittenden. “Postpartum maternal health and the Edinburgh Postnatal Depression Scale among the Hadza foragers.” Poster presentation, American Association of Physical Anthropologists Annual Meeting, Austin, TX, April 10th-15th.
- 2017 With L.K. Gryder, *S.M. Young, W.B. David, Y. Teng, D. Zava, D.W. Kimball, W Norris, and S. Gerstenberger. “The hormonal and elemental composition of dehydrated human placenta capsules.” Podium presentation. American Association of Physical Anthropologists Annual Meeting, New Orleans, LA, April 19th-22nd
- With S.M. Young, L.K. Gryder, C. Cross, D. Zava, and D.W. Kimball. “Placentophagy’s effects on postpartum maternal affect, health, and recovery.” Poster presentation. American Association of Physical Anthropologists Annual Meeting, New Orleans, LA, April 19th-22nd
- 2016 “Down through the generations: the role of developmental programming in the intergenerational inheritance of cardiometabolic disease risk among high prevalence populations”. Invited presenter, joint HBA/AAPA poster symposium, Biocultural perspective on family health within and across generations. American Association of Physical Anthropologists Annual Meeting, Atlanta, GA, April 12th-16th.
- With *L Gryder, S Young, D Zava, and W Norris, “Effects of human maternal placentophagy of postpartum iron status”. Poster presentation, American Association of Physical Anthropologists Annual Meeting, Atlanta, GA, April 12th-16th.
- 2015 ‘You are what (your mother) ate; how 'developmental origins' research is improving our understanding of type 2 diabetes risk" Invited presentation. Health and Society Lecture Series, Southern Methodist University, Feb 3.

- 2014 With S. Young, "The emerging trend of human maternal placentophagy: can Placenta consumption enhance mother-infant bonding?" Invited presenter, Executive Session: Evolutionary perspectives on attachment: How anthropology can inform contemporary parenting Models, American Association of Anthropology Annual Meeting Washington DC, December 3-7.
- With *S. Young, "Assessing the risks of maternal placentophagy: an analysis of environmental metals in human placenta capsules" Plenary Poster, American Association of Physical Anthropologists Annual Meeting, Calgary, Alberta, Canada, April 8th-12th.
- With *L. Gryder, S Young, and P Lienard, "Exploring the human exception to maternal placentophagy among mammals: assessing the visual and olfactory aversion to human placental tissue". Plenary Poster, American Association of Physical Anthropologists Annual Meeting, Calgary, Alberta, Canada, April 8th-12th.
- 2012 "The relevance of local experience and understandings in the design and implementation of pre-pregnancy and prenatal health interventions" Invited speaker, The 2nd European Congress on Preconception Care and Health, October 4-5, Rotterdam, Netherlands.
- With *S Young, J Selander, and A Cantor, "Maternal Experiences with Postnatal Placentophagy" Society for Cross Cultural Research Annual Conference, Las Vegas, NV, February 22nd-25th
- 2011 "Type 2 Diabetes and Developmental Origins: Why Improved Prenatal Health Programs in High-Prevalence Native American Communities May Hold the Key to Successful Prevention" Invited Plenary Speaker. Advances in Indian Health Conference, May 3-6, Albuquerque, NM.
- Beyond Thrifty Genes and Couch Potato Lifestyle: the Developmental Origins of the Global Obesity Pandemic" Invited Speaker. Western University of Health Sciences College of Osteopathic Medicine, COMP Seminar Series. February 18, Ontario, CA.
- 2010 With S. Young, and J. Selander, "Eating the placenta: how do the nutritional and hormonal profiles of unprepared human placental tissue compare with processed human placenta capsules?" 109th Annual meeting of the American Anthropological Association, November 17-21, New Orleans, LA.
- With *J Selander, A Cantor, and S Young, "Human Maternal Placentophagy: Benefits for Postpartum Women" 109th Annual meeting of the American Anthropological Association, November 17-21, New Orleans, LA.
- 2010 With S Young, *P Lienard, A Cantor, and J Selander, "Revulsion or Appeal? A blind test of the visual and olfactory cues of human placental tissue" 109th Annual meeting of the American Anthropological Association, November 17-21, New Orleans, LA.
- 2009 With *S Young, "Placentophagy: Maladaptive or Misplaced Cultural Taboo?" Paper presented at the Annual Southwestern Anthropological Association Conference, Las Vegas, NV, May 1st-2nd.

- 2008 With J Kachinski, "Metabolic Syndrome and the Coming Global Epidemic: Could Prenatal Native Alaskan Diets Provide Protective Effects?" Paper presented at the 107th Annual Meeting of the American Anthropological Association, San Francisco, CA, November 19th - 23rd.
- 2007 "The effects of variation in maternal and postweaning diet on the intergenerational transmission of developmentally programmed insulin resistance over five generations in a rat model" Invited presentation, 5th International Congress on Developmental Origins of Health and Disease, November 6-10, Perth, Australia.
- With *Chris Kuzawa "Introduction: The Adaptable Phenotype and Biological Anthropology: Emerging Trends in the Study of Development, Genetics and Evolution." Invited presentation, jointly sponsored session of the American Association of Physical Anthropologists and The Human Biology Association., 76th Annual meeting of the American Association of Physical Anthropologists, March 28-31, Philadelphia, PA
- "The 'normalization' of intergenerationally transmitted, developmentally programmed traits in experimental animals: implications for adaptive hypotheses" Invited presentation, jointly sponsored session of the American Association of Physical Anthropologists and The Human Biology Association., 76th Annual meeting of the American Association of Physical Anthropologists, March 28-31, Philadelphia, PA.
- 2006 "Are the future offspring of women migrating away from violence predisposed to health problems?: A 'developmental programming' perspective. Society for Medical Anthropology Invited presentation, American Anthropological Association Annual Meeting, November 15-19, San Jose, CA.
- "The Developmental Origins of Obesity and Related Health Disorders: Prenatal and Perinatal Factors" Invited presentation, Wenner-Gren Foundation Symposium: Anthropological Perspectives on Women and the Obesity Pandemic: Causes, Costs and Controls. June 11-15, Hvar, Croatia.
- "Fetal Programming and the intergenerational inheritance of a predisposition to the metabolic syndrome" Society for Medical Anthropology 66th Annual Meeting, March 28-April 2, Vancouver, British Columbia, Canada.
- 2005 "Two Case-Study Challenges to the Thrifty Genotype Hypothesis: An Argument for Expanding Our Etiological Models of Diabetes Prone Populations" American Association of Physical Anthropologists 74th Annual Meeting, April 6-9, Milwaukee, WI.
- 2003 "The Type 2 Diabetes 'Thrifty Genotype Hypothesis': A Critical Examination." Invited Presentation, U.S. Centers for Disease Control and Prevention (CDC), Division of Diabetes Translation, Atlanta, GA. October 17.
- "The Type 2 Diabetes 'Thrifty Genotype Hypothesis': A Critical Examination." Invited Presentation, Emory University, Center for Health, Culture and Society, Atlanta, GA. October 17.
- 2002 "Type 2 Diabetes and Fetal Origins: The Promise of Prevention Programs Focusing on Prenatal Health in High Prevalence Native American Communities." Society for Medical Anthropology Invited Session, American Anthropological Assoc Annual Meeting, Nov 20-24, New Orleans, LA.

- 2000 "Chronic Disease in the Developing World: The Health Related Time Bomb of the Twenty-first Century?" Arizona Medical Anthropology Symposium. October 28, University of Arizona, AZ.
- 1998 "The Ideology of NIDDM: Implications for Intervention" Arizona Medical Anthropology Seminar, April 10, Arizona State University. Tempe, AZ.
- 1996 "A New Perspective on Biomedical Approaches to Diabetes Prevention and Control Interventions in Native American Communities: Suggestions for a Social Cost/Benefit Analysis" Society for Applied Anthropology Annual Meeting, March 27-31, Baltimore, MD.
- 1995 "Havasupai Conceptualizations of NIDDM: Indications of Powerlessness." Society for Applied Anthropology Annual Meeting, March 29-April 2, Albuquerque, NM.

AWARDS/NOMINATIONS

- 2018 UNLV Anthropology Department Nominee, Donald Schmiedel Service Award.
- 2010 Las Vegas Indian Center Medallion. Presented in appreciation for outstanding service to the Community Center.
- 2009 Anthropology Department Nominee, Morris Award for Excellence in Teaching, University of Nevada Las Vegas.
- 2008 UNLV Nominee, Nevada Regents' Rising Researcher Award.
- 2005 Anthropology Department Nominee, Morris Award for Excellence in Teaching, University of Nevada, Las Vegas
- 2004 Anthropology Department Nominee, Morris Award for Excellence in Teaching, University of Nevada, Las Vegas.
- 1997-8 Philip Mason Thompson Award for academic excellence in Applied Anthropology, School of Human Evolution and Social Change, Arizona State University.

FIELDWORK, LABORATORY WORK AND RESEARCH EXPERIENCE

- 2008 to present Cross cultural survey research regarding the frequency and form of the practice of human maternal placentophagy. Results to date published in *Ecology, Food and Nutrition*, *Placenta*, and *Nutrition Research*.
Randomized, double-blind, placebo-controlled study investigating the hormonal profile, iron status, and mood, of healthy, postpartum women consuming their placentas as a processed, encapsulated supplement. Results to date published in *Journal of Midwifery and Women's Health*, and *Women and Birth*.
- Laboratory analysis investigating select nutritional, hormonal, and environmental metal content of human placental tissue. Results to date published in *Placenta*, and *Nutrition Research*.

- 2008-15 Investigation of the possible protective effects of prenatal maternal diets high in long-chain pres fatty acids on the development of insulin resistance and dyslipidemia among adult offspring of Yup'ik Eskimo women in the Kuskokwim-Delta region of southwest Alaska. Results published in the *Journal of Developmental Origins of Health and Disease*.
- 2009-13 Two-year, NIH-funded type 2 diabetes DPP-based intervention study among present urban Native Americans in southern Nevada. Results to date published in *Journal of Diabetes Mellitus*.
- 2004-9 Two experimental animal studies investigating: i) the nutritional, prenatal origins of insulin resistance, its subsequent transmission to third generation offspring, and implications for dietary intervention; and ii) the protective effects of prenatal maternal diets high in long-chain fatty acids on the development of insulin resistance and dyslipidemia in their adult offspring Results published in the journals *Nutrition and Metabolism, and Open Journal of Metabolic and Endocrine Diseases*.
- 1998-2006 Contributing in areas of background research, experimental design, analysis of data, and manuscript preparation in a series of interdisciplinary, experimental, and theoretical diabetes research projects. Results published in the journals *Medical Anthropology, J of Nutrition, Life Sciences, Human Organization, American J of Physical Anthropology, and Diabetologia*.
- 1998-9 Havasupai Indian Reservation, AZ. Worked with the tribe in an effort to document community attitudes about diabetes and assess local resources to combat the disease, as well as assess social, political and economic factors which may be impeding control of weight and blood glucose, especially among pregnant women. Consulted on a multi-year, \$148,000 diabetes prevention/control grant proposal submitted by the Havasupai Tribe and funded (June 1998) by the Indian Health Service (IHS Special Diabetes Program for Indians). Helped organize a tribal diabetes task force to oversee the five-year Indian Health Service grant.
- 1993 Havasupai Indian Reservation, AZ. Worked during the summer months coordinating research with local Havasupai research assistants in order to determine the nutritional habits of reservation adults and the possible effects of those habits on diabetes in the community. Results published in the *Journal of the American Dietetic Association* and *The Federation of American Societies for Experimental Biology Journal*.
- 1992 Visited the Havasupai reservation on a part-time basis working to coordinate efforts in Supai for the A.S.U./Havasupai Diabetes Project, a joint endeavor of Arizona State University and the Havasupai Tribal Council.
- 1991-2 Lived and worked full-time on the Havasupai reservation in connection with the A.S.U./Havasupai Diabetes Project. Efforts included: coordinating and supervising blood draws for diabetes screening program; personally delivering over 350 diabetes blood test results and discussing their contents with tribal member test participants; and working with the tribal elderly lunch program in order to help better meet the needs of diabetic community members.

SERVICE/OUTREACHCommunity

Las Vegas Indian Center:

- Member, Board of Directors (2008 – 2018)
- Member, Health Board Committee (2004, 2008-2012)
- Participating Organizer, Annual *Honor the Elders Event* (2010, 2011).
- Participant/Co-Organizer, First Annual Health and Wellness Fair, March 12, 2005
- Participant/Co-organizer, First Annual 5k Race and Fun Run, November 5, 2005.

Coordinator, Havasupai children's diabetes screening; result consultations, January-February, 2002. Supai, AZ.

Guest Presenter, Diabetes Awareness Week, UNLV, November 9, 2009, Las Vegas, NV

Guest Presenter, Rock Against Diabetes Week, UNLV, October 23, 2008, Las Vegas, NV.

Volunteer/Presenter/Discussant, Annual Havasupai Health Fair 1998-2002. Supai, AZ.

Guest Speaker, Southern Nevada Dietetic Association Meeting, May 16, 2002, Las Vegas, NV.

Judge, Northland Preparatory Academy Annual Science Fair 2000-2001. Flagstaff, AZ.

Guest Speaker, Northern Arizona District Dietetic Association Meeting, April 22, 1999 Flagstaff, AZ.

Professional

Professional Association Officer:

Vice President, Society for Cross Cultural Research, 2020 to Present

Member, Nominations and Elections Committee, Human Biology Assoc. 2008-2010

Journal Referee:

American Anthropologist 2011, 2012

American Journal of Human Biology 2006, 2008, 2014

American Journal of Physical Anthropology 2013

American Journal of Public Health 2007, 2004

Anthropology and Education Quarterly 2003

Diabetes 2011, 2012, 2016

Evolutionary Anthropology 2018

Human Organization 2003, 2009

International Journal of Osteoarchaeology 2011

Journal of Diabetes Mellitus 2014, 2018, 2019

Medical Anthropology 2001, 2002, 2003, 2004, 2010

Medical Anthropology Quarterly 2008, 2012

Nutrients 2015

Nutritional Anthropology 2004

Placenta 2017

PLoS ONE 2013, 2016

Pregnancy and Childbirth 2018

Preventing Chronic Disease 2014, 2015, 2016

Proceedings of the National Academy of Sciences – PNAS 2013, 2019

Proceedings of the Oklahoma Academy of Science 2006

Public Health Nutrition 2017

Trends in Endocrinology and Metabolism 2009

National Science Foundation: Senior Panel Member (Physical Anth) 2010, 2011

Grant Proposal Reviewer: National Science Foundation, External Reviewer 2004, 2007, 2009, 2011, 2015
US Centers for Disease Control and Prevention, External Reviewer 2005

Book Reviewer: Cambridge University Press, 2007; McGraw-Hill Mayfield Press, 2002, 2007

System

Member, Admissions Committee for the University of Nevada School of Medicine 2007, 2008, 2009

University

Guest lecturer, UNLV School of Medicine, (2018)

Chair, UNLV Academic Freedom and Ethics Committee (2016 – 2018)

Chair, UNLV Faculty Senate General Education Committee (2013-15)

Faculty Panel Participant: Graduate College's *How to Use Your Committee Members and Advisor for Feedback* panel, January 10, 2019.

Member, UNLV Collaborative Leadership Group (2016 – present)

Faculty Presenter: GPSA Funding Workshop, October 12, 2012

Faculty Panel Participant, UNLV Orientation Program, January 25, 2002.

Judge, UNLV Annual Graduate Student Research Forum, April 6, 2002; April 5, 2003; March 17, 2013.

Faculty Marshal, UNLV Spring Commencement Ceremony, May, 2002; May 2004, December 2004, May 2014.

Faculty presenter: GPSA Skills Workshop, October 29, 2007

College

Liberal Arts:

Member: College of Liberal Arts Executive Committee (2018 – present)

Panel Member: Associate Professor Breakfast (October 6, 2017)

Member, Faculty Bylaws Committee (2008 to 2010)

Graduate College:

Member, Graduate Council (2007-2011)

Member, Graduate Curriculum Committee (2007-2011)

Department Service

Department Chair (2018 – present)

Graduate Coordinator (2007 -2011)

Chair, Faculty Search Committee (2017-2018)

Chair, Graduate Curriculum Committee (2007 to 2017)

Chair, Undergraduate Curriculum Committee (2008- 2010)

Chair, Undergraduate Assessment Committee (2016 to present)

Member Scholarship Committee (2011-2017)

Member, Budget Committee (2003 - 2010)

Member, NAGPRA Committee (2014 to present)

Member, Assessment Committee (2014)

Member, Faculty Search Committee (2003, 2004, 2005, 2013, 2016)

Member, Faculty Bylaws Committee (2008 – 2009)

Member, Website Committee (2013 – 2017)

Member, Ad Hoc Committee on Department Vision/Progress (2004 to 2005)
 Member, Library Committee (2001 to 2018)

COURSES TAUGHT

***Denotes intersession classes developed for the UNLV School of Medicine**

Introduction to Cultural Anthropology	Peoples and Cultures of Native North America
Indians of the Southwest	Indians of Arizona
Southwest Anthropology	*Cross-cultural Conceptions of Illness and Health
Diabetes Pathophysiology	*Medical Anthropology
Nutritional Anthropology	Core Method and Theory in Anthropology
*Developmental Origins of Health and Disease	Food and Culture
Health and Disease in Cross Cultural Perspective	Food and Culture in Eastern Europe and Beyond
Economic Anthropology	Critical Medical Anthropology
*Ethnomedicine	

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

The American Anthropological Association	Society for Medical Anthropology
The Society for Applied Anthropology (Fellow)	Evolutionary Anthropology Society
The Society for the Anthropology of Food and Nutrition	
Human Biology Association (Fellow; Elected Officer; Nominations and Elections Committee 2008-2010)	
International Society for Developmental Origins of Health and Disease (DOHaD)	

POPULAR MEDIA RESEARCH COVERAGE

- *Science*, Science News (December 1, 2017)
- Science Daily (December 1, 2017)
- CNN (July 3, 2017)
- *Sapiens* (May 9, 2019)
- Wired, Italy (December 4, 2017)
- Mirror, UK (December 3, 2017)
- International Business Times (December 4, 2017)
- Cosmopolitan (January 13, 2017)
- National Public Radio - NPR (December 27, 2019)
- Undark Magazine (December 12, 2019)
- PlayGround – Spanish Video News for Social Media (July 14, 2017)
- Deutschlandradio - German National Public Radio (March 2, 2018)
- Parents Magazine (August, 2016)
- E! News (March 15, 2018)
- Time Magazine (October 4, 2010)
- Globe and Mail (March 4, 2011)
- US News and World Report (October 1, 2007)
- The Atlantic (March 22, 2013)
- Yahoo Health News (February 21, 2015)
- Agence France-Presse (AFP) (February 20, 2015)
- RTÉ - Ireland's National Public Service Media Organization (June 9, 2014)

- Univision Chicago (Feb 21, 2015, Aug 2, 2015)
- FoxNews.com (April 4, 2013)
- Natural History Magazine (October 2006)
- Chicago Tribune (August 15, 2013)
- WGBA TV News (NBC Affiliate, Green Bay, Wisconsin, May 19, 2014)
- Quartz.com (July 7, 2017)
- Las Vegas Sun (March 1, 2013)
- KNPR State of Nevada (March 7, 2013)
- KUGS Radio, Bellingham, WA (October 5, 2011)
- Deseret News Publishing (February 2, 2003)
- KVVU TV News Las Vegas (Fox Affiliate, May 8, 2013)
- KLAS TV News Las Vegas (CBS Affiliate, March 2008, August 2010)
- Las Vegas Review Journal (August 23, 2010)
- Las Vegas City Life (August 5, 2010)

GRADUATE ADVISORY COMMITTEES

PhD Committees, Chaired:

Julianne Paige	(in progress)
Jacob White	(in progress)
Kristen Herlosky	(in progress)
Rogelio Arenas	(PhD 2019)
Celeste Giordano	(PhD 2017)
Sharon M. Young	(PhD 2016)
M. Diane Hardgrave	(PhD 2010) Professor, Behavioral Sciences, College of Southern Nevada

PhD Committees, Member:

Trevor Pollom	(in progress)
Alesha Pettit	(in progress)
Maileen Ulep-Reed	(in progress)
M. Amaris Knight	(in progress)
Michael Moncrief	(PhD 2018)
Matthew Martinez	(PhD 2018)
Crystal Lee	(PhD 2015)
Patricia Dutcher	(PhD 2014)
Michelle Escasa	(PhD 2012) Assistant Professor, University of Colorado, Colorado Springs.
Ahmad Safi	(PhD 2011) Monitoring and Reporting Officer, Iakonie Katastrophenhilfe (DKH) Al Azhar University-Gaza
Claudia Chaufan (UCSC)	(PhD, 2005) Associate Professor, School of Health Policy and Management, York University, Toronto Canada.

MA Committees, Chaired:

Laura Gryder	(MA 2015) University of Nevada, Reno Medical School Data Analyst
Celeste Giordano	(MA, 2013) PhD 2017, UNLV - Anthropology
Julie Kachinski	(MA, 2010)
Sharon Young	(MA, 2010) PhD 2016, UNLV - Anthropology
Allison Cantor	(MA, 2010) PhD 2016, University of South Florida
Carin Wallace	(MA, 2006)
Luz Andrea Pfister	(MA, 2006)

Master Degree Committees, Member:

Laura Gryder	(MPH in progress)
Alex Straftis	(MA in progress)
Emilio Jacintho	(MA 2018)
Kristen Herlosky	(MA 2018)
Trevor Pollom	(MA 2018)
Gene Kilian Wells	(MPH 2016)
Christian Murua	(MPH 2015)
Frederick Freudenberger	(MS 2014)
Matthew Martinez	(MA, 2014)
Michael Moncrieff	(MA, 2014)
Jacquiline Casey	(MA, 2013)
Toricellas Begay	(MPH, 2012)
Hongbin Jin	(MPH, 2012)
Fauzia Ali	(MPH, 2012)
Andrew Rosett	(MS, 2012)
Edward Wynder	(MPH 2011)
Heidi Manlove	(MA, 2011)
Danielle Axt	(MA, 2010)
Rebecca Lockwood	(MA, 2008)
Ryan Schmidt	(MA, 2007)
Roxanne Sanchez	(MA, 2005)
Sally Underwood	(MA, 2005)
Britt (Hanson) Betenson	(MA, 2005)
Michele Marcela Bleuze	(MA, 2005)
Summer J. Decker	(MA, 2004)
Victoria Fisher	(MA, 2004)
Marta Alfonso	(MA, 2002)

UNDERGRADUATE MENTORING

Honors Advisor	2019	Alina Lindquist
Honors Advisor	2019	Alexia Janda
Honors Advisor	2014	Jessica Parsons
Honors Committee	2013	Kara Osborne
Honors Advisor	2008	Anel Rojas
NSF EPSCoR Advisor	2008	Lauren Emes
McNair Scholar Mentor	2004	Karmen Boelke