

Melanie A. Martin

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APPOINTMENTS

2018- Assistant Professor, University of Washington, Department of Anthropology
2016-2018 Postdoctoral Associate, Yale University, Department of Anthropology
Faculty mentor: Claudia Valeggia

EDUCATION

2015 PhD, Anthropology, University of California Santa Barbara (UCSB)
Faculty advisor: Michael Gurven
2011 MA, Anthropology, UCSB
2007 BA, Anthropology, University of Puerto Rico, Río Piedras

CERTIFICATES

2015 Certificate in College and University Teaching, UCSB

PUBLICATIONS

Peer-reviewed journal articles (student co-authors underlined)

- 2019 **Martin M**, Veile A, Valeggia C. Birth mode and early child infectious morbidity risks in Qom children of Argentina. (*Amer J Hum Biol* <https://doi.org/10.1002/ajhb.23200>)
- 2018 Klein L, Huang J, Quinn E, **Martin M**, Breakey A, Gurven M, Kaplan, H, Valeggia C, Jasienska G, Scelza B, Lebrilla C, Hinde K. Variation among populations in the immune protein composition of mother's milk reflects subsistence pattern. (*Evol Med Public Health* <https://doi.org/10.1093/emph/eoy031>)
- 2018 Kraft TS, Stieglitz J, Trumble BC, **Martin M**, Kaplan H, Gurven M. Nutrition transition in two lowland Bolivian subsistence populations. (*Am J Clinical Nutrition* <https://doi.org/10.1093/ajcn/nqy250>).
- 2018 **Martin M.**, Valeggia C. Early menarche and accelerated pubertal growth of indigenous Qom girls in Argentina. (*Annals Hum Biol* <https://doi.org/10.1080/03014460.2018.1486455>)
- 2017 Sobolewski M, Weiss B, **Martin M**, Gurven M, Barrett E. Toxicanthropology: Phthalate exposure in relation to market access in a remote forager-horticulturalist population. (*Intl J Hygiene Environ Health* <http://doi.org/10.1016/j.ijheh.2017.03.009>)
- 2017 Sullivan AD, **Martin MA**, Hayes, LP, Hayward D, Walker PL, Schoeninger MJ. Exploring patterns & pathways of dietary change: preferred foods, oral health, and stable isotope analysis of hair from the Dani of Mulia, Papua, Indonesia: a biocultural case study in culture contact. (*Curr Anthropol* DOI: [10.1086/690142](https://doi.org/10.1086/690142)).
- 2016 Han CS*, **Martin M***, Hengartner NW, Dichosa A, Fietze S, Gurven M, Alcock J. Salivary microbiomes of indigenous Tsimane mothers and infants are distinct despite frequent pre-mastication (*PeerJ* [4:e2660](https://doi.org/10.2196/4:e2660)) *contributed equally

- 2016 **Martin M, Garcia G**, Kaplan H, Gurven M. Conflict or congruence? Maternal and infant-centric factors associated with shorter exclusive breastfeeding durations among the Tsimane. [Social Sci & Med 170: 9-17.](#)
- 2015 Blackwell AD, Tamayo M, Beheim B, Trumble BC, Stieglitz J, Hooper PL, **Martin M**, Kaplan H, Gurven M. Helminth infection, fecundity, and age of first pregnancy in human females. [Science. 350: 970-972.](#)
- 2014 Veile A, **Martin M**, McAllister L, Gurven M. Modernization is associated with intensive breastfeeding patterns in the Bolivian Amazon. [Soc Sci & Med 100:148-158.](#)
- 2013 Blackwell A, **Martin M**, Kaplan H, Gurven M. Antagonism between two intestinal parasites in humans: the importance of coinfection risk and recovery dynamics. [Proc R Soc B: 280 20131671](#)
- 2012 **Martin M**, Lassek WD, Gaulin SJ, Evans RE, Woo JG, Geraghty SR, Davidson BS, Morrow AL, Kaplan HS, Gurven MD. Fatty acid composition in the mature milk of Bolivian forager horticulturalists: controlled comparison with a U.S. sample. [Mat Child Nutr 8:404-418.](#)
- 2011 Blackwell A, Gurven M, Sugiyama L, Madimenos F, Liebert M, **Martin M**, Kaplan H, Snodgrass J. Evidence for a peak shift in humoral response to helminths: age profiles of IgE in the Shuar of Ecuador, the Tsimane of Bolivia, and US NHANES. [Plos Neglect Trop Dis 5:e1218](#)

Book chapters

- 2017 **Martin M**. Mixed-feeding in humans: evolution and current implications. In: [Breastfeeding: New Anthropological Approaches](#). Eds: Palmquist A, Quinn EA, Tomori C. Routledge: Oxford.
- 2013 **Martin M**, Blackwell A, Kaplan H, Gurven M. Make new friends but keep the old? Parasite coinfection and comorbidity in Homo sapiens. (*Peer-reviewed*) In: [Primates, Pathogens, & Evolution](#). Eds: Brinkworth J & Penchenkina E. Springer Pubs.
- 2013 **Martin M** and Sela D. Infant gut microbiota: developmental influences and health outcomes. In: [Building Babies: Primate Development in Proximate and Ultimate Perspective](#). Eds: Clancy K, Hinde K, Rutherford J. Springer: New York. (*Peer-reviewed*)

Book reviews

- 2017 **Martin M**. Michael L. Power and Jay Schulkin: Milk: The Biology of Lactation. ([Intl J Primatology doi:10.1007/s10764-017-9950-4](#))

In preparation

Martin M. Biological Anthropology in 2018: Grounded in theory, questioning contexts, embracing innovation. (*American Anthropologist*, invited contribution, *in review*)

Martin M, Blackwell A, Kaplan H, Gurven M. Differences in Tsimane children's growth outcomes and associated determinants as estimated by WHO standards vs. within-population references. (*in review*).

News columns and blog posts

- 2016 "[An evolutionary anthropology master syllabus](#)" EAS Section News, September
- 2016 "[A game-changer in the study of human origins](#)" Anthropology News. 57: 5-6.
- 2014 "[Manufactured mommy wars. Le sigh](#)" Mammals Suck...Milk! Guest Blog Post

GRANTS

- 2016 [Engaged Anthropology Grant](#), Wenner-Gren Foundation (\$4,360)
2012 [Doctoral Dissertation Improvement Grant \(DDIG\)](#), NSF (\$24,703)
2012 [Dissertation Fieldwork Grant](#), Wenner-Gren Foundation (\$16,405)
2009 Research Experience for Graduates Supplemental Grant, NSF (\$5,000)

TEACHING

<u>Institution/Department/Years</u>	<u>Courses</u>
UW Anthropology (2018-)	Human Reproductive Ecology Evolutionary Biology of Women Evolutionary Perspectives on Parenting and Childcare Human Life Cycle
Yale Anthropology (2017)	Ethnopediatrics (co-taught with Claudia Valeggia)
UCSB Anthropology (2011, 2014, 2015)	Statistical Methods in Human Behavior Human Variation Evolutionary Medicine

RESEARCH AFFILIATIONS

- 2019- PI, Biological Anthropology and Biodemography Laboratory, UW
2018- Affiliate Faculty, UW Center for Statistics and the Social Sciences (CSSS)
2017- Research Affiliate, UW Center for Studies in Demography and Ecology (CSDE)
2016- Co-PI [Chaco Area Reproductive Ecology \(CARE\) Program](#)
PI: Claudia Valeggia (Yale University). Field data collection; undergraduate and graduate student research advising; statistical and laboratory analysis; database management. Research areas: life history transitions, reproductive ecology, growth and development, maternal and child health, community based participatory research
2009- Affiliate [Tsimane Health and Life History Project](#)
Co-PIs: Michael Gurven (UCSB), Hillard Kaplan (Univ. New Mexico). Field biomarker collection, interviews, behavioral observations; laboratory and data analysis. Dissertation Thesis (2015): [Optimal exclusive breastfeeding duration: evidence of conflict and congruence in Tsimane mother-infant pairs](#)

INVITED TALKS

- 2019 *Human infant feeding: evolved strategies, individual optimums, and public health.* UCLA Center for Behavior, Evolution, and Culture Speaker Series. Feb. 11, 2019.
2017 *Accelerated pubertal development in Qom girls of Argentina: potential dietary, ethnic, environmental, and life history factors.* Department of Anthropology Seminar Series, University of Massachusetts Amherst. April 3, 2017.
2014 *Human microbial development in evolutionary perspective.* Department of Biology, University of New Mexico. Nov. 18, 2014

CONFERENCE PAPERS & POSTERS (1ST AUTHORED)

- 2019 *Assessing local variability in Tsimane growth outcomes derived from international vs. within-population references: considerations for biological relevance.* 44th Annual Meeting Human Biology Association (HBA), Cleveland, OH
- 2019 *Assessing local variability in standardized growth outcomes derived from international vs. within-population references: considerations for biological relevance.* Society for Applied Anthropology 79th Annual Meeting, Portland, OR
- 2018 *Adapting reproducible research to the reality of anthropological field data.* 117th Annual Meeting American Anthropological Association (AAA), San Jose, CA
- 2018 *Morbidity Profiles Compared in Vaginally and Cesarean Born Indigenous Toba/Qom Children.* 88th Annual Meeting American Association of Physical Anthropologists (AAPA), Austin, TX
- 2017 *"Skeletal maturation" vs. "critical fat threshold" in relation to pubertal development in Qom girls.* 87th Annual Meeting AAPA, New Orleans, LA
- 2017 *Population estimates of age at menarche and peak height velocity demonstrate accelerated pubertal development in Qom/Toba girls.* 42nd Annual Meeting HBA New Orleans, LA
- 2016 *A novel application of noninferiority testing to evaluate infant feeding strategies.* 115th Annual Meeting AAA, Minneapolis, MN
- 2016 *Substitution or augmentation: is early complementary feeding that does not reduce breastfeeding intensity really "suboptimal"?* 86th Annual Meeting AAPA, Atlanta, GA
- 2016 *Mixed evidence of adverse nutritional outcomes associated with early complementary feeding among the Tsimane.* 41st Annual Meeting HBA, Atlanta, GA
- 2015 *Is early complementary feeding a strategy to reduce the metabolic cost of lactation?* 40th Annual Meeting HBA, St. Louis, MO
- 2014 *Many pathways, many outcomes: a global accounting of 'perceived low milk supply'.* 113th Annual Meeting AAA, Washington D.C.
- 2014 *Association of exclusive breastfeeding duration with infant outcomes in a rural Amerindian population.* 17th International Society for Research in Human Milk and Lactation Conference, Kiawah, SC
- 2014 *Optimal for whom? Using evolutionary logic to predict variation in infant feeding practices.* 8th Annual California Workshop for Evolutionary Social Science (C-WESS), San Luis Obispo, CA
- 2014 *Premastication and transmission of oral microbiota in Tsimane mother-infant dyads.* 39th Annual Meeting HBA, Calgary, CAN
- 2013 *What predicts optimal infant and young child feeding practices in a 'traditional breastfeeding population'?* 112th Annual Meeting AAA, Chicago, IL
- 2012 *Variation in complementary feeding among a population of tropical forager-horticulturalists: associated factors and impacts on infant health.* 2nd Annual UC Global Health Day, UC Berkeley
- 2012 *Influence of aquatic resources and subsistence strategy on human milk fatty acid composition: a cross-cultural comparison.* 81st Annual Meeting AAPA, Portland OR
- 2010 *Variation in complementary feeding among a population of tropical forager-horticulturalists: associated factors and impacts on infant health.* 109th Annual Meeting AAA, New Orleans, LA, November
- 2010 *Multiple-species parasitic infections in a natural disease ecology: risk factors and health outcomes.* 22nd Annual Conference Human Behavior and Evolution Society, Eugene, OR
- 2010 *Indigenous intestinal flora, polyparasitism, and immune responses in the Bolivian lowland tropics.* 79th Annual Meeting AAPA, Albuquerque, NM
- 2009 *Diet, food preferences, and caries rates in the Dani of Papua New Guinea.* 108th Annual Meeting AAA, Philadelphia, PA

CAMPUS TALKS

- 2016 *Transparency and reproducibility in the observational sciences: lessons from Anthropology*. Yale Day of Data, Dec. 2, 2016
- 2016 *Maternal-offspring conflict and congruence in shaping Tsimane breastfeeding patterns*. Department of Anthropology, Yale University. Mar. 3, 2016
- 2015 *Optimizing early nutrition through integrated foodways: lessons from the Tsimane*. Symposium on Native Foodways, Environmentalism, and Biocolonialism, UCSB, March 6, 2015
- 2011 *Breast is best, but whose is better? Maternal milk fatty acid composition in U.S. and Amerindian women*. 1st Anthropology Graduate Symposium, UCSB, May 21st 2011.
- 2011 *Fatty acid composition in the mature milk of Bolivian forager-horticulturalists: Comparison with a U.S. cohort*. 7th Annual Ecology, Evolution and Marine Biology Graduate Student Symposium, UCSB, Feb 12th 2011.

ORGANIZED SYMPOSIA & CONFERENCES

- 2017 Chair, Anthropology matters for professionals! Forging non-academic career pathways at the graduate and undergraduate level, 116th Annual Meeting AAA
- 2017 Organizing committee, 3rd Annual Northeastern Evolutionary Primatology Meeting, Yale
- 2017 Chair, Human Biology and Genetics IV, Poster Session, 87^h Annual Meeting AAPA
- 2016 Co-Chair, Biocultural Perspectives of Family Health, Joint AAPA-HBA Symposium. 86th Annual Meeting AAPA, 41st Annual Meeting HBA
- 2012 Co-Lead Coordinator, 6th Annual California Workshop on Evolutionary Social Science (C-WESS)
- 2011 Lead Coordinator, 1st Anthropology Graduate Student Symposium, UCSB
- 2010 Organizing committee, 4th Annual C-WESS

FELLOWSHIPS, HONORS, & AWARDS

- 2013 President's Dissertation Year Fellowship, University of California
- 2013 Graduate Dean's Advancement Fellowship, UCSB
- 2012 Spaulding Service Fellowship, UCSB
- 2011 Sustainability Award, UCSB Green Initiative Fund
- 2010 Dean's Fellowship, UCSB Central Fellowships
- 2010 Research Stipend, Hintze Fund for UCSB IAS Graduate Student Research
- 2010 Honorable Mention, NSF Graduate Research Fellowship
- 2008 Dean's Fellowship, UCSB Central Fellowships

PROFESSIONAL SERVICE

UW

- 2018-2019 Coordinator, Biological Anthropology Seminar Series, UW

Other

- 2016-2020 Co-editor, Evolutionary Anthropology Society Section News, *Anthropology News*
- 2013-2014 Student Committee, 2014 UC Global Health Day
- 2012 Student representative, Faculty Search Committee, IAS, UCSB
- 2009-2010 Co-Chair, UCSB Anthropology Graduate Student Association

Ad Hoc reviewer

Manuscripts (publons.com/a/704057/): Am J Hum Biol, Am J Phys Anthropol, Clin Med Insights: Pediatr, Evol Anthropol, Evol Hum Behavior, J DOHaD, J Hum Lactation, Mat & Child Health, Scientific Reports

Grant Proposals: National Science Foundation, Leaky Foundation

Conference Abstracts: AAPA 2018 Annual Meeting Program

MENTORSHIP

Graduate

Advisor	Delaney Glass, UW Anthropology (in progress, co-advisor with Bettina-Shell Duncan)
Committee member	Carmen Hové, University of California Santa Barbara (in progress)
Field research	Carlye Chaney, Yale Anthropology (2018)

Undergraduate

Independent research	Deja Leigh Edwards, UW (2018-2019) Joy Gheerkens, UW (2018-2019)
Field research	Katherine Kuenzle, Yale (2018) Andrew Kuzemczak, Yale (2018) Geni Garcia, UCSB (2012)

MEDIA COVERAGE

2017 Your Last Meal with Rachel Belle Podcast [“Alicia Silverstone, Vegan Cheese”](#)
2016 Nature News: [“Mining the secrets of college syllabuses”](#)
2016 Undark Magazine: [“The science \(and culture\) of pre-chewing food for children”](#)
2015 NPR: [“Can a parasitic worm make it easier \(or harder\) for a woman to conceive?”](#)
2014 The Weekly Weinersmith Podcast ([Episode 53: Melanie Martin on breastfeeding](#))
2012 BBC Mundo: [“Leche materna de indígenas bolivianos: ¿de mejor calidad?”](#)
2012 The New York Times: [“In the Bolivian Amazon, a yardstick for modern health”](#)

PROFESSIONAL MEMBERSHIPS

American Anthropological Association
American Association of Physical Anthropologists
Human Biology Association
International Society for Research in Human Milk and Lactation
International Society for Evolutionary Medicine and Public Health

LANGUAGES

Spanish	Fluent reading, speaking, writing
Tsimane	Conversational

COMMUNITY SERVICE

2016-2017	Judge, mentor, New Haven Science Fair, New Haven, CT
2017	Yale Science in the News Public Lecture Series
2012	Development and Resource Committee, Santa Barbara Birth Center
2011-2012	UCSB Plastics Pollution Coalition
2011-2012	Co-Director, "Say No to Styro" UCSB campus sustainability campaign