

Masako Fujita
Curriculum vitae

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ACADEMIC POSITIONS

- 2015-present Associate Professor, Department of Anthropology, Michigan State University
2008-2015 Assistant Professor, Department of Anthropology, Michigan State University

EDUCATION

- 2008 Ph.D. Anthropology, University of Washington, Seattle, Washington
Dissertation: *An epidemiological and evolutionary investigation of mother-offspring vitamin A transfer*. Advisor: Dr. Bettina Shell-Duncan
2005 M.A. Anthropology, University of Washington
2003 M.A. Anthropology, University of Victoria, British Columbia, Canada
Thesis: *Sedentarization, seasonality, and economic differentiation: maternal diet and health in Ariaal-Rendille communities in northern Kenya*. Advisor: Dr. Eric Roth
1999 B.A. Anthropology, University of Victoria, British Columbia, Canada

AREAS OF SPECIALIZATION

Maternal nutrition and health; human milk content variation; infant feeding; droughts and famine; evolutionary medicine; ecological immunology; human variation; biomarker methods; East Africa

HONORS, AWARDS, AND FELLOWSHIPS

- 2021 Nominated for International Representative of the Human Biology Association.
2016 US Department of Education National Resource Center Program Course Development Grant awarded via MSU African Studies Center, \$3,000.
2010 US Department of Education Title IV Curriculum Development Grant awarded via MSU Center for Advanced Study in International Development (CASID), \$1,500.
2008-2010 Social Sciences and Humanities Research Council of Canada Postdoctoral Fellowship (awarded but declined)
2007-2008 University of Washington (UW) Graduate School Dissertation Fellowship
2007 Canadian Association for Physical Anthropology Davidson Black Award
2002-2005 Social Sciences and Humanities Research Council of Canada Doctoral Fellowship
1999-2001 University of Victoria (UVic) Faculty of Graduate Studies Dean's Scholarship
1996-1998 UVic Entrance Scholarship; President's Scholarships
1996 North Island College (British Columbia, Canada) BC Tel Award; Dean's Honour Roll

RESEARCH GRANTS

Grants Awarded or Under Review

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| In prep | Co-I. (PI Bilinda Straight) Climate Change and Obesity: Intergenerational Effects of Extreme Climate and Environmental Modifiers in Mother-Newborn Dyads. |
| Under review | PI. (Co-PI) Nerli Paredes Ruvalcaba. Infant growth and development in Mexico: The role of infant feeding, infection, and human milk. Wenner-Gren Foundation Dissertation Research Grant, US\$20,000. |
| 2020-2021 | Co-PI. (PI Katherine Wander) Evolutionary Nutritional Adaptations and COVID-19 Risk among Healthcare Workers. National Science Foundation (RAPID), US\$200,000. |
| 2019-2021 | PI. Investigating associations between maternal multiple nutrient deficiencies and breast milk nutrients using samples from Ariaal women in northern Kenya. Alliance for African Partnership, African Futures Postdoctoral Leadership Program, US\$9,000. |
| 2018-2019 | PI. Breast milk lactoferrin variation in relation to maternal anemia, micronutrient deficiency, and inflammation among Ariaal agropastoralists in northern Kenya. MSU Provost Undergraduate Research Initiative (PURI) Award, \$4,000. |
| 2016-2018 | PI. Effects of maternal nutrition and infant gender on breastmilk antibodies and micronutrients. National Science Foundation (NSF) of the United States, Biological Anthropology Senior Award, \$120,000. |
| 2016-2017 | PI. The impact of infant sex and maternal nutrition on breast milk quality in polygynous Ariaal agro-pastoralists of northern Kenya. Wenner-Gren Foundation, US\$20,000. |
| 2016 | PI. Strategic Partnership Travel Funds for research development in Kilimanjaro, Tanzania. MSU African Studies Center and Anthropology, \$3,860. |
| 2015-2016 | PI. Exploring nutritional and immunological correlates of maternal anemia and possible impacts on breast milk quality in rural Kenya. MSU PURI Award, \$4,000. |
| 2015 | PI. Feasibility study for iron status dried blood spot assay. MSU PURI Award, \$1,634. |
| 2014-2015 | PI. The Impact of Coping Strategies for Food Insecurity and Health Outcomes. MSU PURI Award, \$1,366. |
| 2013-2014 | PI. Food Insecurity, Coping Strategy, Nutrition and Immune Health among Ariaal Mothers in Kenya: An Exploratory Study. MSU PURI Award, \$2,000. |
| 2009-2013 | PI. A Longitudinal Study of Mother-Offspring Vitamin A Transfer in Northern Kenya. MSU CSS Faculty Initiative Fund, \$3,640. |
| 2011 | PI. Food Beliefs and Choices during Pregnancy in Northern Kenya. MSU PURI, \$500. |
| 2010-2011 | PI. Travel Support for a Prospective Visiting Scholar, Mr. Philip Ndemwa of the Centre for Public Health Research, Kenya Medical Research Institute. MSU CASID, US\$4,000 (Awarded but declined for schedule conflict). |
| 2010 | PI. Collaborative Research Development in Para, Brazil. MSU CASID Research Initiative Travel Grant, \$2,943. |
| 2009 | PI. A Longitudinal Study of Mother-Offspring Vitamin A Transfer in Northern Kenya. MSU CASID International Development Research Initiation Grant, \$4,000. |
| 2006-2008 | PI (with Dr. Bettina Shell-Duncan). An Evolutionary Perspective on Mother-Offspring Vitamin A Transfer. NSF Dissertation Improvement Grant, US\$12,000. |
| 2006-2008 | PI. An Evolutionary Perspective on Mother-Offspring Vitamin A Transfer. Wenner-Gren Foundation for Anthropological Research, US\$25,000 (Grant # 7460). |
| 2006-2007 | PI. An Evolutionary Perspective on Mother-Offspring Vitamin A Transfer. Micronutrient Initiative, Can\$13,500. |

2003-2005 PI. Maternal Vitamin A Status Pilot Project in Northern Kenya. Bill and Melinda Gates Foundation (Puget Sound Partners for Global Health, Global Partnership Travel Grant), US\$4,000.

Grants Not Awarded, Under Revision, or In Preparation (previous 3 years)

Under revision PI. (Co-PI Katherine Wander and Co-Is Linda Hunt, Chenxi Li) Maternal double-burden malnutrition and quality of mother's milk in Kilimanjaro, Tanzania: do obese mothers with nutritional deficiency produce low nutrient milk?

N.A. PI. (Co-PI Nerli Paredes Ruvalcaba, Co-I Alejandra Núñez de la Mora) Doctoral Dissertation Research: Biocultural approaches to infant growth and early childhood development in Mexico - The role of infant feeding, infection, and human milk. National Science Foundation Dissertation Research Improvement Grant, US\$25,200.

N.A. PI. (Co-PIs Amelia Odo, Evelyn Nwagu) Toward personalized nutrition education for improving maternal, milk, and infant nutrition and health: a cluster randomized control trial. Allen Foundation, US\$189,090 *not awarded*.

N.A. Co-PI. (PI Amelia Odo, Co-PI Evelyn Nwagu) Efficacy of personalized nutrition education on the maternal health status, milk quality and infant health: a cluster randomized control trial. International Foundation for Science, \$15,000 *not awarded*.

N.A. PI. Maternal Buffering Hypothesis: variations in human milk vitamin B12 in relation to maternal malnutrition using samples from Ariaal women in northern Kenya. Wenner-Gren Foundation, US\$19,000 *not awarded*.

PUBLICATIONS

Manuscripts in Preparation

- Wander K et al. Maternal and infant predictors of milk immune activity. In prep.
- Wander K et al. Does the immune system of milk increase activity for infants undergoing infectious disease episodes? In prep.
- Complex variation in lactoferrin levels in human milk by maternal and infant characteristics. (with Wander K, Paredes Ruvalcaba N, Odo AN) In prep.
- Variation of human milk lactoferrin in relation to maternal-infant illness status among dyads from northern Kenya. (with Paredes Ruvalcaba N) In prep.
- Alloparenting care availability and infectious disease odds in the mother-infant dyads of northern Kenya. (with Vankayalapati A) In prep.
- Effect of long-term freezing on the creamatocrit of human milk. (with Brindle E) In prep.

Manuscripts under Review

- **Fujita M**, Wander K, Tran T, Brindle E. **Under review**. Characterizing the extent human milk folate is buffered against maternal malnutrition and infection in drought-stricken northern Kenya.
- Wander K, **Fujita M**, Mattison S, Duris M, Gauck M, Hopt T, Lacy K, Foligno A, Ulloa R, Dodge C, Mowo F, Kiwelu I, Mmbaga BT. **Under review**. Tradeoffs in milk immunity affect infant infectious disease risk.

Peer-reviewed Journal Articles

21. Wander K, **Fujita M**, Spathis R, et al. 2021. In vitro stimulation of whole milk specimens: a field-friendly method to assess milk immune activity. *Journal of Human Lactation*. DOI: 10.1177/0890334421999628

20. Paredes Ruvalcaba N, Bignall E, **Fujita M**. 2020. Age and socioeconomic status in relation to risk of maternal anemia among the Ariaal agropastoralists of northern Kenya. *Human Ecology*. DOI: 10.1007/s10745-020-00129-5
19. **Fujita M**, Wander K, Paredes Ruvalcaba N, Brindle E. 2019. Human milk sIgA antibody in relation to maternal nutrition and infant vulnerability in northern Kenya. *Evolution, Medicine, and Public Health* 2019(1):201-211. DOI: 10.1093/emph/eoz030
18. Corbitt M, Paredes Ruvalcaba N, **Fujita M**. 2019. Variation in breast milk macronutrient contents by maternal anemia and hemoglobin concentration in northern Kenya. *American Journal of Human Biology*. DOI: 10.1002/ajhb.23238
17. **Fujita M**, Paredes Ruvalcaba N, Wander K, Corbitt M, Brindle E. 2018. Buffered or impaired: Maternal anemia, inflammation and breast milk macronutrients in northern Kenya. *American Journal of Physical Anthropology*. DOI: 10.1002/ajpa.23752 PMID: PMC6352968
16. **Fujita M**, Wander K. 2017. A test of the Optimal Iron Hypothesis among breastfeeding Ariaal mothers in northern Kenya. *American Journal of Physical Anthropology*. DOI:10.1002/ajpa.23299
15. **Fujita M**, Lo Y, Brindle E. 2017. Nutritional, inflammatory, and ecological correlates of maternal retinol allocation to breast milk in agro-pastoral Ariaal communities of northern Kenya. *American Journal of Human Biology*. DOI: 10.1002/ajhb.22961 PMID: PMC5511767
14. **Fujita M**, Brindle E, Lo Y, Castro P, Cameroamortegui F. 2014. Nutrient intakes associated with elevated serum C-reactive protein concentrations in normal to underweight breastfeeding women in Northern Kenya. *American Journal of Human Biology* 26: 796-802. DOI: 10.1002/ajhb.22600 PMID: PMC5298890
13. **Fujita M**, Roth EA, Lo Y. 2013. Letter to the editor: Response to Primack's comment: Mother's milk. *American Journal of Physical Anthropology* 152(3):427-428. DOI: 10.1002/ajpa.22364
12. Miller E, Aiello M, **Fujita M**, Hinde K, Milligan L, Quinn EA. 2013. Field and laboratory methods in human milk research. *American Journal of Human Biology* 25(1):1-11. Erratum in *American Journal of Human Biology* 25(3):442. DOI: 10.1002/ajhb.22334. [Contributed to writing]
11. **Fujita M**, Lo Y, Baranski JR. 2012. Dietary diversity score is a useful indicator of vitamin A status of adult women in northern Kenya. *American Journal of Human Biology* 24:829-834. DOI: 10.1002/ajhb.22327
10. **Fujita M**, Roth EA, Lo Y, Hurst C, Vollner J, Kendell A. 2012. In poor families, mothers' milk is richer for daughters than sons: A test of Trivers–Willard hypothesis in agropastoral settlements in Northern Kenya. *American Journal of Physical Anthropology* 149(1):52-59. Erratum in *American Journal of Physical Anthropology* 152(4):571. DOI: 10.1002/ajpa.22092
9. **Fujita M**, Roth EA, Lo Y, Hurst C, Vollner J, Kendell A. 2012. Low serum vitamin A mothers breastfeed daughters more often than sons in drought-ridden northern Kenya: A test of the Trivers-Willard hypothesis. *Evolution and Human Behavior* 33(4):357-364. DOI: 10.1016/j.evolhumbehav.2011.11.006
8. **Fujita M**, Shell-Duncan B, Ndemwa P, Brindle E, Lo Y, Kombe Y, O'Connor KA. 2011. Vitamin A dynamics in breastmilk and liver stores: a life history perspective. *American Journal of Human Biology* 23:664-673. DOI: 10.1002/ajhb.21195 PMID: PMC3938187
7. Brindle E, **Fujita M**, Shofer J, O'Connor KA. 2010. Serum, plasma, and dried blood spot high sensitivity C-reactive protein enzyme immunoassay for population research. *Journal of Immunological Methods* 362:112-120. DOI:10.1016/j.jim.2010.09.014 PMID: PMC2964394 [Contributed to assay transfer from Northwestern U, subject recruitment, specimen collection, and assays]

6. **Fujita M**, Brindle E, Rocha A, Shell-Duncan B, Ndemwa P, Oconnor K. 2009. Assessment of the relative-dose response test based on serum retinol-binding protein in lieu of serum retinol for determining low hepatic vitamin A stores. *American Journal of Clinical Nutrition* 90:217-24. DOI: 10.3945/ajcn.2009.27569 (NIHMS293248)
5. Roth EA, Ngugi E, **Fujita M**. 2009. HIV/AIDS risk and worry in Northern Kenya. *Health, Risk and Society* 11(3):231-239. DOI: 10.1080/13698570902912684 [Contributed to data collection & writing]
4. **Fujita M**, Brindle E, Shofer J, Ndemwa P, Kombe Y, Shell-Duncan B, O'Connor KA. 2007. Retinol-binding protein stability in dried blood spots. *Clinical Chemistry* 53(11):1972-1975. DOI: 10.1373/clinchem.2007.093104
3. **Fujita M**. 2006. Maternal vitamin A deficiency in a settled Ariaal community in northern Kenya: a direction for future research. *Journal of Development Alternative and Area Studies* 25(3):88-100. DOI: 10.5281/zenodo.2596538
2. Roth EA, Ngugi E, **Fujita M**. 2006. Self deception does not explain high-risk behavior in the face of HIV/AIDS: a test from northern Kenya. *Evolution and Human Behavior* 27(1):53-62. DOI:10.1016/j.evolhumbehav.2005.04.004 [Contributed to data collection and writing]
1. **Fujita M**, Roth EA, Nathan M, Fratkin EM. 2004. Sedentism, seasonality and economic status: A multivariate analysis of maternal dietary and health statuses between pastoral and agricultural Ariaal and Rendille communities in northern Kenya. *American Journal of Physical Anthropology* 123(3):277-91. DOI 10.1002/ajpa.10310

Book Chapters

2. **Fujita M**, Rendon M. 2013. The role of vitamin A in health of infants and vitamin A status assessment methods. In: Watson RR, Grimble G, Preedy VR, Zibadi S, editors. *Nutrition in Infancy*. In Series: Nutrition and Health, Vol. 1. New York: Springer Publishing. pp 441-456. ISBN: 978-1-62703-223-0 DOI: 10.1007/978-1-62703-224-7
1. **Fujita M**, Roth EA, Nathan MA, Fratkin EM. 2005. Sedentarization and seasonality: Maternal dietary and health consequences in Ariaal and Rendille communities in northern Kenya. In: Fratkin EM, Roth, EA, editors. *As Pastoralists Settle: Social, Health, and Economic Consequences of the Pastoral Sedentarization in Marsabit District, Kenya*. In Series: Studies in Human Ecology and Adaptation, Vol. 1. New York: Kluwer Academic/Plenum Publishers. pp 209-234. ISBN: 978-0-306-48594-7 DOI: 10.1007/b107561

Articles in Student Journal

1. Bignall E, Paredes Ruvalcaba N, **Fujita M**. 2020. Sociodemographic variables associated to anemia among agropastoral mothers in northern-Kenya. *Red Cedar Undergraduate Journal (ReCUR)* 8:9-13.

Technical Reports

6. **Fujita M**. 2018. Final report for the project, "Effects of maternal nutrition and infant gender on breastmilk antibodies and micronutrients." National Science Foundation Biological Anthropology Program Senior Research Grant #BCS-1638167.
5. **Fujita M**. 2017. Annual report for the project, "Effects of maternal nutrition and infant gender on breastmilk antibodies and micronutrients." National Science Foundation Biological Anthropology Program Senior Research Grant # BCS-1638167.

4. **Fujita M.** 2017. Final report for the project, “Impact of Maternal Nutrition and Infant Sex on Breast Milk Quality in Polygynous Ariaal Agro-pastoralists of Northern Kenya.” The Wenner-Gren Foundation Post-Ph.D. Research Grant #9278.
3. **Fujita M.** 2008. Final Report for the project, “An evolutionary perspective on mother-offspring vitamin A transfer.” The Wenner-Gren Foundation Dissertation Research Grant #7460
2. Shell-Duncan B, **Fujita M.** 2008. Final report for dissertation research, “An evolutionary perspective on mother-offspring vitamin A transfer. National Science Foundation Doctoral Dissertation Improvement Grant # BCS-0622358. [Contributed to writing]
1. **Fujita M.** 2007. Technical report for a validation test of portable Crafti fluorometer with Kenyan samples. Micronutrient Initiative, Ottawa, Canada.

Data in Repository

4. **Fujita M.** 2021. Ariaal Milk FOLR1 Data. Version 1. DOI: 10.5281/zenodo.5527188
3. **Fujita M.** 2020. Data for B-vitamin content in maternal diet and infant morbidity among breastfeeding mother-infant dyads from northern Kenya. DOI: 10.5281/zenodo.4041966
2. Paredes Ruvalcaba N, Bignall E, **Fujita M.** 2019. Data for Age and socioeconomic status in relation to risk of maternal anemia among the Ariaal of northern Kenya. DOI: 10.5281/zenodo.3478520
1. **Fujita M.** 2019. Ariaal mother and milk sIgA data from 2006 drought in northern Kenya. DOI: 10.5281/zenodo.2177939

PRESENTATIONS

Conference Presentations with Published Abstracts or Proceedings

23. **Fujita M**, Wander K, Paredes Ruvalcaba N, Odo A. Submitted. Human milk lactoferrin variation by maternal inflammation and nutrition in northern Kenya. Abstract for the 2022 Human Biology Association annual meeting, to be published in the *American Journal of Human Biology*.
22. Paredes Ruvalcaba N, **Fujita M.** Submitted. Variation of human milk lactoferrin in relation to maternal-infant illness status among dyads from northern Kenya. Abstract for the 2022 Human Biology Association annual meeting, to be published in the *American Journal of Human Biology*.
21. **Fujita M**, Paredes Ruvalcaba N, A Odo. 2020. Exploring maternal buffering of human milk nutrient content against evolutionary novel nutritional stress. *American Journal of Human Biology* 2020;32:e23408. DOI: 10.1002/ajhb.23408 (presentation not possible due to COVID-19 cancellation)
20. Tran T, **Fujita M.** 2020. Investment in innate immune defense in northern Kenya. *American Journal of Physical Anthropology* 171, 287-287. DOI: 10.1002/ajpa.24023 (presentation not possible due to COVID-19 cancellation)
19. Paredes Ruvalcaba N, **Fujita M.** 2020. Maternal and infant illness in relation to lactoferrin concentration in human milk among dyads from northern Kenya. *American Journal of Human Biology* 2020;32:e23408. DOI: 10.1002/ajhb.23408 (presentation not possible due to COVID-19 cancellation)
18. Odo A, **Fujita M.** 2020. B-vitamin content in maternal diet and child morbidity among breastfeeding mother-infant dyads from northern Kenya *American Journal of Human Biology* 2020;32:e23408. DOI: 10.1002/ajhb.23408 (presentation not possible due to COVID-19 cancellation)

17. **Fujita M**, Paredes Ruvalcaba N, Wander K, Jess, N, Brindle E. 2019. Breastmilk sIgA antibody levels in relation to maternal protein-energy nutrition, micronutrient deficiencies, and infant sex in northern Kenya. *American Journal of Human Biology*. DOI: 10.1002/ajhb.23214
16. **Fujita M**, Paredes Ruvalcaba N, Corbitt N. 2018. The evolutionary ecology of breastmilk folate among Ariaal agro-pastoralists in Kenya. *American Journal of Physical Anthropology* 165(S66):91. DOI: 10.1002/ajpa.23489
15. **Fujita M**, Wander K. 2017. Moderate iron deficiency is associated with lower prevalence of inflammation/infection among breastfeeding mothers in northern Kenya. *American Journal of Human Biology*. DOI: 10.1002/ajhb.22974
14. **Fujita M**, Apland A, Chang T. 2016. Modeling the impact of coping through animal milk rationing on dietary quality of Ariaal agro-pastoral mothers facing food insecurity and poverty in drought-prone northern Kenya. *American Journal of Physical Anthropology* 159(S62):148-9. DOI: 10.1002/ajpa.22955
13. Apland A, **Fujita M**, Chang T. 2016. The impact of food insecurity and food-based coping on serum folate status: A case study among breastfeeding Ariaal women in northern Kenya. *American Journal of Physical Anthropology* 159(S62):82. DOI: 10.1002/ajpa.22955
12. Stone J, **Fujita M**. 2016. Transferrin receptor protein values in dried blood spots stored for nine years demonstrate strong correlation with transferrin receptor in matched sera and with hemoglobin values assessed at the time of blood collection. *American Journal of Human Biology* 28(2):297.
11. **Fujita M**, E Brindle, Lo Y. 2015. Maternal anemia and acute phase reaction during breastfeeding interactively predict milk fat concentration among Ariaal mothers in northern Kenya. *American Journal of Human Biology* 27(2):267.
10. **Fujita M**, Brindle E, Lo Y, Castro P, Cameroonortegui F. 2014. Nutritional intakes associated with serum C-reactive protein concentrations in normal to underweight breastfeeding women in northern Kenya. *American Journal of Physical Anthropology* 153(S58):122-123.
9. **Fujita M**, Silva HP. 2013. Diverse diets may be prophylactic against micronutrient deficiency but not against cardiovascular disease risks: case studies in under-served rural communities in Kenya and Brazil. *American Journal of Human Biology* 25(2):235–290.
8. **Fujita M**, Roth EA, Lo Y. 2012. In poor families mothers' milk is richer for daughters than sons: an example of Trivers-Willard effects on mother's milk in northern Kenya. *American Journal of Physical Anthropology* 147(S54):147.
7. **Fujita M**, Roth EA. 2011. Maternal vitamin A status and parental investment in northern Kenya. *American Journal of Human Biology* 23(2):259.
6. Silva HP, **Fujita M**. 2011. Westernization and nutrition in Ariaal and Quilombola women, a comparison between Kenya and Brazil. *American Journal of Human Biology* 23(2):277.
5. Gordon L, **Fujita M**. 2010. Birth interval and maternal liver vitamin A status in northern Kenya. *American Journal of Human Biology* 22(2):254-255.
4. **Fujita M**. 2009. Life-history tradeoffs can explain vitamin A levels in human milk: an example of the maternal reproductive strategy from Kenya. *American Journal of Physical Anthropology* 138(S48):130-131.
3. **Fujita M**. 2008. Cultural ecology and epidemiology of vitamin A deficiency among lactating mothers in northern Kenya. *American Journal of Physical Anthropology* 135(S46):100.
2. **Fujita M**. 2008. An evolutionary perspective on mother-offspring vitamin A transfer. *American Journal of Human Biology* 20(2):219-220.

1. Brindle E, **Fujita M**, Shell-Duncan B. 2008. Stability of C-reactive protein and alpha1-acid glycoprotein in dried blood spots stored in field and laboratory conditions. *American Journal of Human Biology* 20(2):215.

Presentations without Published Abstracts

29. Vankayalapati A, **Fujita M**. 2021. Impact of the double burden of malnutrition on human milk micronutrient levels and infant development. Mid-Michigan Symposium for Undergraduate Research Experiences.
28. **Fujita M**, Wander K, Tran T. 2021. Milk folate receptor- α content variation by maternal malnutrition and infection during drought in northern Kenya. International Society for Evolutionary Medicine and Public Health 2021 meeting. (<https://isemph.org/>)
27. Odo A, **Fujita M**, Nwagu E. 2020. Maternal dietary B-vitamin and infant morbidity among breastfeeding mother-infant dyads in northern Kenya. Alliance for African Partnership African Futures Postdoctoral Program completion presentation.
26. Elyvine GI, Paredes Ruvalcaba N, **Fujita M**. Cancelled. Maternal inter-birth interval in relation to macronutrient content in human milk. 2020 University Undergraduate Research and Arts Forum. MSU. (presentation not possible due to COVID-19 cancellation)
25. Elyvine GI, Paredes Ruvalcaba N, **Fujita M**. Cancelled. Inter-birth interval and macronutrient content in human milk in northern Kenya. AAPA Undergraduate Research Symposium. (presentation not possible due to COVID-19 cancellation)
24. Tran T, **Fujita M**. 2019. Effects of milk folate (FOLR1) on child morbidity patterns in northern Kenya. Mid-Michigan Symposium for Undergraduate Research Experiences.
23. Saetern QK, Paredes Ruvalcaba N, **Fujita M**. 2019. Food Insecurity in Relation to Different Types of Anemia Among Breastfeeding Mothers of Northern Kenya. University Undergraduate Research and Arts Forum. MSU. DOI: 10.5281/zenodo.2647618; American Association of Physical Anthropologists Undergraduate Research Symposium, Cleveland, OH.
22. Bignall E, Paredes Ruvalcaba N, **Fujita M**. 2019. During drought in northern Kenya, mothers with iron deficiency anemia were younger, but not of low socioeconomic status. University Undergraduate Research and Arts Forum. MSU; American Association of Physical Anthropologists Undergraduate Research Symposium, Cleveland, OH.
21. **Fujita M**, Paredes Ruvalcaba N, Wander K, Corbitt M, Brindle E. 2018. An exploratory study of the adaptive anemia hypothesis: Maternal anemia may compromise or enhance breast milk macronutrient levels depending on the type of anemia, the presence of infection, and the milk component. Platform presentation, International Society for Evolutionary Medicine and Public Health 2018 meeting, Park City, Utah. DOI: 10.5281/zenodo.2638827
20. Corbitt M, Paredes Ruvalcaba N, **Fujita M**. 2018. Exploring associations between maternal anemia and breast milk macronutrients using samples from Ariaal women in northern Kenya. Poster presentation, University Undergraduate Research and Arts Forum. MSU.
19. Bignall E, Paredes Ruvalcaba N, **Fujita M**. 2017. Differences in maternal prolactin levels in relation to infant sex, breastfeeding status, and nutritional status. Poster presentation, First Annual Anthropology Research Symposium and Showcase for Undergraduate Students, East Lansing.

18. **Fujita M**, Paredes Ruvalcaba N, Corbitt M. 2017. Human milk antibody as parental investment: An analysis of secretory immunoglobulin A in milk from northern Kenya in relation to maternal nutrition and infant sex. Presented by Dr. Gibson-King. Symposium: Biosocial perspectives on growth, development and Parental Investment (Co-Chairs: Badescu I & Gibson-King A), annual meeting of the *Canadian Association for Physical Anthropology*, Edmonton, Canada. DOI:10.5281/zenodo.2627980
17. **Fujita M**, Brindle E. 2016. Another way milk vitamin A protects infants from mortality: positive correlation between vitamin A and secretory immunoglobulin A antibody in breast milk of mothers in rural Kenya. Abstract for *Micronutrient Forum 2016*, Cancun, Mexico.
16. Rife A, **Fujita M**. 2016. The Effects of Maternal Nutritional Status on Breast Milk Secretory Immunoglobulin A Antibody in Rural Kenya. Poster presentation, *University Undergraduate Research and Arts Forum*. MSU.
15. Stone J, **Fujita M**. 2016. The importance of dietary iron and vitamin C among breastfeeding Ariaal mothers in northern Kenya: analysis of serum transferrin receptor protein in relation to 24-hour dietary recalls. Poster presentation, *University Undergraduate Research and Arts Forum*. MSU.
14. **Fujita M**, Baranski J. 2015. Human milk antibody as parental investment: A preliminary analysis of secretory immunoglobulin A data from northern Kenya. Podium presentation, annual meeting of the *Canadian Association for Physical Anthropology*, Winnipeg, Canada.
13. Apland A, **Fujita M**. 2015. Pathways between food insecurity and serum folate status through coping strategies: A case study among breastfeeding women in drought stricken northern Kenya. Poster presentation. *University Undergraduate Research and Arts Forum*. MSU.
12. Apland A, **Fujita M**. 2015. Folate Receptor 1 (FOLR1) adjusted for hormonal status serves as a marker of folate nutrition. Undergraduate Research Symposium of the *American Association of Physical Anthropologists*, St. Louis, MO.
11. **Fujita M**, Yun-Jia Lo, Baranski J, Brindle E. 2014. In endemically vitamin A deficient northern Kenya, undernourished mothers allocate a higher proportion of blood vitamin A to breastmilk than better-nourished mothers, with effects moderated by the lactation hormone prolactin. Podium presentation, the *Canadian Association for Physical Anthropology* meeting Fredericton, Canada.
10. Apland A, **Fujita M**. 2014. Food insecurity, folate intake, and the moderating effect of coping strategy among Ariaal mothers in Kenya. Undergraduate Research Symposium of the *American Association of Physical Anthropologists*, Calgary, Canada.
9. Apland A, **Fujita M**. 2014. Food insecurity, food stretching, and folate intake among Ariaal mothers in Kenya. Poster presentation, *University Undergraduate Research and Arts Forum*, MSU.
8. **Fujita M**, Apland A. 2013. Food insecurity, coping strategy, and nutrition among Ariaal mothers in Kenya: an exploratory study. Podium presentation, annual meeting of the *Canadian Association for Physical Anthropology*, Scarborough, Canada.
7. Apland A, **Fujita M**. 2013. Food insecurity and coping strategy among Ariaal mothers in Kenya. Poster presentation, *University Undergraduate Research and Arts Forum*, MSU.
6. **Fujita M**, Roth EA, Lo Y, Hurst C, Vollner J, Kendell A. 2012. Poor mothers give richer milk for daughters than sons: a test of the Trivers-Willard hypothesis on milk fat concentrations in northern Kenya. Poster presentation, annual meeting of the *Canadian Association for Physical Anthropology*, Victoria, Canada.
5. **Fujita M**, Roth EA. 2011. Mothers with low vitamin A status breastfeed daughters more often than sons in drought-ridden northern Kenya: A test of the Trivers-Willard Model. Poster presentation, annual meeting of the *Human Behavior and Evolution Society*, Montpellier, France.

4. **Fujita M.** 2009. Current vs. Future Reproduction: Maternal Reproductive Strategy in Vitamin A Deficiency Endemic Northern Kenya. Podium presentation, annual meeting of the *Canadian Association for Physical Anthropology*, Vancouver BC, Canada.
3. **Fujita M**, Shell-Duncan B, Ndemwa P, Kombe Y, Brindle E, Shofer J, Oconnor KA. 2009. An Investigation of Maternal Hepatic and Breastmilk Vitamin A Trends Postpartum. Poster presentation, *Micronutrient Forum*, Beijing, China.
2. **Fujita M**, Brindle E, Shofer J, Ndemwa P, Kombe Y, Shell-Duncan B, O'Connor KA. 2009. Assessment of retinol-binding protein as a substitute for serum retinol in the relative-dose-response test for determining hepatic vitamin A stores. Poster. *Micronutrient Forum*, Beijing, China.
1. Brindle E, **Fujita M**, Shell-Duncan B. 2008. Biomarkers of Inflammation for Population Research: Stability of C-reactive Protein and Alpha 1-acid Glycoprotein in Dried Blood Spots. Poster presentation, annual meeting of the *Population Association of America*, New Orleans.

Invited Presentations

7. Perlman S, **Fujita M.** 2017. Gender, Poverty, and Diabetes Self-Management in Ghana. (Presenter Perlman). Eye On Africa Seminar Series, African Studies Center, MSU.
6. **Fujita M**, Brindle E, Lo Y. 2015. Maternal anemia and acute phase reaction during breastfeeding interactively predict milk fat concentration among Ariaal mothers in northern Kenya. Plenary Session on the Importance of Human Milk in Human Evolution and Modern Health, annual meeting of the Human Biology Association, St. Louis, Missouri.
5. **Fujita M.** 2012. Do mothers in poor condition breastfeed daughters more often than sons? – A test of the evolutionary parental investment theory in drought-ridden agro-pastoral settlements in northern Kenya. Epidemiology Seminar Series, MSU.
4. **Fujita M.** 2011. Understanding why vitamin A in breastmilk declines when children need it the most: data from a northern Kenyan community. Human Development Initiative Seminar Series, MSU.
3. **Fujita M.** 2010. Maternal vitamin A status in northern Kenya. Invited speaker, Epidemiology 200 A Multi-disciplinary Approach to Problems in Global Public Health and Epidemiology, Department of Epidemiology, College of Human Medicine, MSU.
2. **Fujita M.** 2010. An evidence-based approach to the fight against maternal and child vitamin A deficiency in northern Kenya. Center for Advanced Study of International Development and the Center for Gender in Global Context Friday Forum, MSU.
1. **Fujita M.** 2010. Biology for public health: An evidenced-based approach to the fight against maternal and child vitamin A deficiency in northern Kenya. Public Health Student Society Spring Seminar, MSU.

PROFESSIONAL SERVICE

Journal Manuscripts Reviewed

American Journal of Clinical Nutrition | American Journal of Human Biology | American Journal of Physical Anthropology | Annals of Human Biology | Annals of the New York Academic Sciences | Anthropologica | Current Zoology | Evolution and Human Behavior | Food and Foodways | Health, Risk & Society | Human Ecology | Human Nature | Journal of Nutrition | Nutrition: the International Journal of Applied and Basic Nutritional Sciences | Pediatric Research | PLOS One

Other Professional Service

- 2021 Judge, Human Biology Association annual meeting student awards
 2020 – 2021 National Science Foundation Advisory Panelist
 2019 – 2021 Ad Hoc Reviewer, Canadian Institute of Health Research NCOHR Grant Program
 2019 Ad Hoc Reviewer, National Science Foundation Biological Anthropology DDRI
 2017, 2019 Ad Hoc Reviewer, National Science Foundation Biological Anthropology Program
 2016 Reviewer, American Society for Nutrition Scientific Sessions 2017
- 2012 – 2016 Member, Program Committee for the annual meetings of the American Association of Physical Anthropologists
- 2009 Co-chair, Symposium on the Evolutionary Biology of Primate Lactation at the 78th Annual Meeting of the American Association of Physical Anthropologists

EXPERT CONSULTATIONS

- 2009 – 2010 Key external expert for the WHO Micronutrients Unit, Geneva, Switzerland
 2006 – 2007 Performance evaluation of a portable fluorometer for the Micronutrient Initiative
 2006 Workshop on enzyme immunoassay method for the Centre for Public Health Research Laboratory, Kenya Medical Research Institute
 2006 Workshop on improving dietary intake of vitamin A for northern Kenyan mothers (with Antonella Lobura of the Food for the Hungry International, Marsabit, Kenya)
 2005 Product label review for retinol-binding protein ELISA kit, PATH, Seattle
 2004 Technology transfer of C-reactive protein ELISA from Northwestern University to the University of Washington

UNIVERSITY/DEPARTMENT SERVICE

- 2022 – Member, MSU College of Social Science Faculty Advisory Council
 2008 – present Core Faculty, African Studies Center, MSU
 2008 – present Core Faculty, Center for Gender in Global Context, MSU
 2020 – present Member, Admissions Committee, MSU Anthropology
 2020 – present Member, Graduate Diversity Task Force, MSU Anthropology
 2019 – present Member, University Academic Integrity Hearing Boards, MSU Dean of Student Office
 2017 – present Member, Academic Hearing Board, MSU College of Social Science
 2019 – 2020 Member, Graduate Curriculum and Programs Committee, MSU Anthropology
 2016 – 2019 Chair, Graduate Curriculum and Programs Committee, MSU Anthropology
 2019 Judge for University Undergraduate Research and Arts Forum (UURAF), MSU
 2008 – 2019 Core Faculty, Center for Advanced Study of International Development, MSU
 2016 Member, Graduate Curriculum and Programs Committee, MSU Anthropology
 2016 Member, Foreign Language and Area Studies Committee, African Studies Center
 2011 – 2015 Member, Faculty Advisory Committee, MSU Anthropology
 2015 Judge for UURAF, MSU
 2015 Member, FLAS Review Committee, MSU African Studies Center
 2014 – 2015 Advisor for MSU College of Social Science Dean's Assistantship scholar (A. Apland)
 2014 Referee, Gendered Perspectives on International Development Working Papers, MSU Center for Gender in Global Context
 2012 – 2014 Member, Forensic Anthropology Faculty Search Committee, MSU Anthropology

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| 2010 | Judge for UURAF, MSU Office of the Provost |
| 2009 – 2011 | Member, Graduate Curriculum and Programs Committee, MSU Anthropology |
| 2009 | Grant Reviewer, MSU Office of the Vice President for Research and Graduate Studies |
| 2009 | Member, African Language Work Group, MSU African Studies Center |
| 2008 – 2009 | Member, Admissions Committee, MSU Anthropology |
| 2005 – 2007 | Member, Biodemography Core Advisory Board, U of Washington Center for Studies in Demography and Ecology |

STUDENT THESES AND DISSERTATION GUIDANCE COMMITTEES SERVED (C=current)

| | |
|-----------------------------------|----------------------------------|
| Anderson-Chavarria, Lily Anne (C) | PhD Committee Member |
| Bird, Catherine | PhD Committee Member |
| Bodnar, MaryKate | First-Year Advisor |
| Boffi, Emilia | PhD Committee Member |
| Colas, Kelly | PhD Committee Member |
| Gordon, Linda | First-Year Advisor |
| Guay, Evan | PhD Committee Member |
| Hurst, Carolyn | PhD Committee Member |
| Jackson, Brett (C) | PhD Committee Member |
| Karim, Tazin | MA Committee Member |
| Kutch, Libbey | PhD Committee Member (Geography) |
| Michel, Amy | MA Committee Member |
| Paredes Ruvalcaba, Nerli (C) | PhD Committee Chair |
| Perlman, Sabrina | PhD Committee Chair |
| Rovin, Kimberly | PhD Committee Member |
| Spiros, Micayla (C) | PhD Committee Member |
| Vollner, Jennifer | PhD Committee Member |

STUDENTS AND SCHOLARS SUPERVISED IN LABORATORY (C=CURRENT)

Name (Alphabetical Order)

Al-Ali, Hana Jasem (Human Biology): Volunteer
Apland, Allison (Anthropology/History): Professorial Assistant, CSS Dean's Scholar
Baranski, Janine (Biomedical Laboratory Diagnostics): Professorial Assistant
Bignall, Emma (Anthropology): Undergraduate Research Assistant; Postgraduate Intern
Cameroamortegui, Felipe (Osteopathic Medicine): Medical Student Researcher
Carpenter, Kelsey (Anthropology): Volunteer
Castro, Pamela (Osteopathic Medicine): Medical Student Researcher
Corbitt, Mary (Animal Science): Undergraduate Laboratory Intern
DelBene, Erin (Anthropology/Physiology): Undergraduate Research Assistant
Cools, Kyla (Anthropology): Volunteer
Elyvine Ingabire, Gasana (Nutritional Sciences, Women Studies): Undergraduate Researcher
Ghishan, Maria (Human Biology, Pre-Medical): Volunteer
Odo, Amelia Ngozi (U of Nigeria, Nsukka): African Futures Program Postdoctoral Scholar
Paredes Ruvalcaba, Nerli (Anthropology): Graduate Research Assistant; NSF Doctoral Fellow (C)
Perlman, Sabrina (Anthropology): Graduate Research Assistant
Rendon, Mariana (Microbiology and Molecular Genetics): Undergraduate Research Assistant
Rife, Alexis (Anthropology): Undergraduate Research Assistant
Saeteurn, Quexteen (Anthropology): Undergraduate Research Assistant

Sass, Savanna (Anthropology): Undergraduate Research Assistant
Shingleton, Sabrina (Anthropology): Undergraduate Research Assistant
Stone, Jonah (Anthropology/Human Biology): Undergraduate Research Assistant
Tran, Tin (Anthropology/Biochem, Grinnell College): Summer Research Opportunity Program Scholar
Vankayalapati, Amula (Nutritional Sciences, Pre-Medical): Volunteer (C)
Yabes, Izzy (Neuroscience): Undergraduate Research Assistant

COURSES TAUGHT

Biocultural Evolution (ANP 840) | Quantitative Methods in Anthropology (ANP 846)
Nutrition in Biocultural Perspective (ANP 892) | Human Adaptability (ANP 443)
Intro to Physical Anthropology (ANP 206, formerly ANP 202)
Time Space Change in Human Society (ISS 220, Integrative Studies in Social Science)

PROFESSIONAL MEMBERSHIPS

International Society for Evolution, Medicine and Public Health | Human Biology Association |
American Association of Physical Anthropologists | Canadian Association for Physical Anthropology
(2007-2018) | American Society for Nutrition (2008-2017) | Human Behavior and Evolution Society
(2011-2013)

CITIZENSHIPS AND LANGUAGES

Japanese Citizen, US Permanent Resident, Canadian Landed Immigrant
Native speaker of Japanese, Fluent in English, Basic French, Basic Swahili