

Curriculum Vitae

SAMUEL S. URLACHER, PH.D.

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PROFESSIONAL APPOINTMENTS

2016-present National Science Foundation SPRF Postdoctoral Fellow, Human Evolution & Energetics Lab, Department of Anthropology, CUNY Hunter College (with Dr. Herman Pontzer)

EDUCATION

2016 Harvard University, Ph.D. Human Evolutionary Biology
2012 Harvard University, A.M. Human Evolutionary Biology
2009 Brown University, A.B. Anthropology & Human Biology

RESEARCH AND TEACHING INTERESTS

Human evolutionary ecology; Life history theory; Energetics; Immune function; Growth & development; Health disparities; Early-life antecedents of adult health; Market integration; Field & laboratory methods

RESEARCH PROJECTS

2014-present ***Garisakang Evolutionary Anthropology Project (co-PI):***
Biocultural research (field & laboratory) among the forager-horticulturalist Garisakang of lowland Papua New Guinea. Current research aims: Exploring the causes and consequences of psychosocial stress among small-scale populations; investigating relationships between market integration and indigenous health. Funding sources: Czech Science Foundation. Co-PI: Dr. Martina Konečná, University of South Bohemia, Czech Republic.

2011-present ***Shuar Health and Life History Project (senior researcher):***
Anthropological, biological, and public health research (field & laboratory) among the forager-horticulturalist Shuar of Amazonian Ecuador. Current research aims: Developing life history theory frameworks for understanding childhood energetics, growth, immune activity, and health. Funding sources: NSF, Leakey Foundation, Wenner-Gren Foundation, others. PIs: Drs. Larry Sugiyama and Josh Snodgrass, University of Oregon.

2010-present ***Xculoc Maya Project (researcher):***
Demographic and ecological research (fieldwork) among Maya agriculturalists of southern Mexico. Current research aims: Documenting and exploring secular changes in childhood behavior, physical activity, and growth. Funding sources: NSF, Leakey Foundation, others. PI: Dr. Karen Kramer, University of Utah.

2008-2009 ***Infertility and Fetal Programming in American Samoa (undergraduate researcher):***
Senior honors thesis research (field and laboratory) investigating relationships between maternal energetics, infertility and early life growth in American Samoa. Funding sources: NIH, NSF, others. PI: Dr. Stephen McGarvey, Brown University.

EXTERNAL RESEARCH GRANTS AND FELLOWSHIPS

- 2016 National Science Foundation, SPRF Postdoctoral Research Fellowship #SMA-1606852 (**\$224,031**). *Tradeoffs in childhood energy allocation and the impact of market integration on ontogeny and health*. Role: PI. Co-PIs: Dr. Herman Pontzer (mentor), Dr. Lara Dugas, Dr. Josh Snodgrass.
- 2013 National Science Foundation, Doctoral Dissertation Improvement Grant #BCS-1340958 (**\$13,233**). *Doctoral Dissertation Improvement: Growth, immune function, and the energetics of childhood*. Role: Co-PI with Dr. Peter Ellison.
- 2013 The Leakey Foundation, General Research Grant (**\$12,960**). *Childhood energetics: growth, immune function, and tradeoffs in Amazonia*. Role: PI.
- 2012 National Science Foundation, Research Experience for Graduates Award #DGE1144152 (**\$4,988**). *The impact of market integration on childhood time allocation, energy expenditure, and body composition in a rapidly modernizing indigenous Maya community*. Role: Graduate researcher. PI: Dr. Karen Kramer.
- 2011 National Science Foundation, Graduate Research Fellowship (**\$138,000**)
- 2007 National Science Foundation, Research Experience for Undergraduates Award

PEER-REVIEWED PUBLICATIONS

- In Press Blackwell AD, **Urlacher SS**, Boheim B, von Rueden C, Jaeggi A, Stieglitz J, Trumble BC, Gurven M, Kaplan H. Detailed growth references for Tsimane forager-horticulturalists of the Bolivian Amazon. *American Journal of Physical Anthropology*.
- 2016 **Urlacher SS**, Liebert MA, Snodgrass JJ, Blackwell AB, Cepon-Robins TJ, Gildner TE, Madimenos FC, Amir D, Bribiescas RG, Sugiyama LS. Heterogeneous effects of market integration on sub-adult body size and nutritional status among the Shuar of Amazonian Ecuador. *Annals of Human Biology* 43(4):316-329.
- 2016 **Urlacher SS**, Snodgrass JJ, Cepon-Robins TJ, Liebert MA, Gildner TE, Sugiyama LS. The application of knemometry to measure childhood short-term growth among the indigenous Shuar of Ecuador. *American Journal of Physical Anthropology* 160(2):353-357.
- 2016 **Urlacher SS**, Blackwell AD, Liebert MA, Madimenos FC, Snodgrass JJ, Sugiyama LS. Physical growth of the Shuar: Height, weight, and BMI references for an indigenous Amazonian population. *American Journal of Human Biology* 28(1):16-30.
- 2016 Eick G, **Urlacher SS**, McDade TW, Snodgrass JJ. Validation of an optimized ELISA for quantitative assessment of Epstein-Barr virus antibodies from dried blood spots. *Biodemography and Social Biology* 62(2):222-233.
- 2016 Gildner TE, Cepon-Robins TJ, Liebert MA, **Urlacher SS**, Madimenos FC, Snodgrass JJ, Sugiyama LS. Regional variation in *Ascaris lumbricoides* and *Trichuris trichiura* infections by age cohort and sex: effects of market integration among the indigenous Shuar of Amazonian Ecuador. *Journal of Physiological Anthropology* 35(28):1-11.
- 2015 Konečná M & **Urlacher SS**. Effect of chewing betel nut (*Areca catechu*) on the measurement of salivary cortisol levels. *American Journal of Physical Anthropology* 158(1):151-154.
- 2014 Cepon-Robins TJ, Liebert MA, Gildner TE, **Urlacher SS**, Colehour AM, Snodgrass JJ, Madimenos FC, Sugiyama LS. Soil-transmitted helminth prevalence and infection Intensity among geographically and economically distinct Shuar communities in the Ecuadorian Amazon. *Journal of Parasitology* 100(5):598-607.
- 2014 Colehour AM, Meadow JF, Liebert MA, Cepon-Robins TJ, Gildner TE, **Urlacher SS**, Bohannan BJM, Snodgrass JJ, Sugiyama LS. Local domestication of lactic acid bacteria

- via cassava beer fermentation. *PeerJ* 2:e479 <http://dx.doi.org/10.7717/peerj.479>.
- 2012 Ellison PT, Reiches MW, Shattuck-Faegre H, Breakey AA, Konecna M, **Urlacher SS**, Wobber V. Puberty as a life history transition. *Annals of Human Biology* 39(5):352-60.
- 2011 Lambert-Messerlian G, Roberts MB, **Urlacher SS**, Ah-Ching J, Viali S, Urbanek M, McGarvey ST. First assessment of menstrual cycle function and reproductive endocrine status in Samoan women. *Human Reproduction* 26(9):2518-2524.

PRESENTATIONS AND PUBLISHED ABSTRACTS

- 2016 **Urlacher SS** & Kramer KK. Secular change in childhood time allocation, energy expenditure, and growth among rapidly modernizing indigenous Maya. Human Biology Association annual meetings, Atlanta, GA. *American Journal of Human Biology* 28(2):300.
- 2016 **Urlacher SS** & Konečná M. The relationship between social status, body size, and salivary hormone levels among Garisakang forager-horticulturalist men of lowland Papua New Guinea. American Association of Physical Anthropologists annual meetings, Atlanta, GA. *American Journal of Physical Anthropology* 159(S62):320.
- 2016 Blackwell AD, **Urlacher SS**, Beheim B, von Rueden C, Trumble BC, Stieglitz J, Kaplan H, Gurven M. Growth references for Amazonian populations. Human Biology Association annual meetings, Atlanta, GA. *American Journal of Human Biology* 28(2):269.
- 2016 Eick GN, **Urlacher SS**, Fording TE, Kowal PR, Sugiyama LS, Snodgrass JJ. What a drop can really do: methodological challenges of integrating dried blood spot samples into human biology research. Human Biology Association annual meetings, Atlanta, GA. *American Journal of Human Biology* 28(2):276.
- 2016 Liebert, MA, Madimenos FC, **Urlacher SS**, Gildner TE, Cepon-Robins TJ, Snodgrass JJ, Sugiyama LS. The embodiment of market integration: Modeling cultural consonance among Shuar children of Amazonian Ecuador. American Association of Physical Anthropologists annual meetings, Atlanta, GA. *American Journal of Physical Anthropology* 159(S62):208.
- 2016 Madimenos FC, Liebert, MA, **Urlacher SS**, Cepon-Robins TJ, Gildner TE, Harrington C, Snodgrass JJ, Sugiyama LS. Bone mineral density is associated with waist circumference and blood pressure but not lipid profile among the Amazonian Shuar of Ecuador. American Association of Physical Anthropologists annual meetings, Atlanta, GA. *American Journal of Physical Anthropology* 159(S62):215.
- 2016 Gildner TE, Liebert, MA, Bribiescas RG, Sugiyama LS, **Urlacher SS**, Cepon TJ, Madimenos FC, Snodgrass JJ. Diurnal testosterone variation among indigenous Shuar men from Amazonian Ecuador. American Association of Physical Anthropologists annual meetings, Atlanta, GA. *American Journal of Physical Anthropology* 159(S62):154.
- 2016 Cepon-Robins TJ, Gildner TE, Liebert MA, **Urlacher SS**, Madimenos FC, Sugiyama LS, Snodgrass JJ. Soil-transmitted helminth infection and immune function: *Ascaris lumbricoides*, but not *Trichuris trichiura*, is associated with lower adult-levels of C-reactive protein among the Shuar of Ecuadorian Amazonia. Human Biology Association annual meetings, Atlanta, GA. *American Journal of Human Biology* 28(2):271.
- 2016 Amir D, Dunham Y, Liebert ML, Snodgrass JJ, **Urlacher SS**, Madimenos FC, Sugiyama LS, Bribiescas RG. Environmental reliability, inter-temporal choice, and risky decision-making among Shuar children. Human Biology Association annual meetings, Atlanta, GA. *American Journal of Human Biology* 28(2):267.

- 2016 Sugiyama LS, Liebert, MA, Madimenos FC, Blackwell AD, **Urlacher SS**, Cepon-Robins TJ, Gildner TE, Bribiescas RG, Snodgrass JJ,. From foraging to Facebook: Market integration and health among the Shuar of Southeastern Ecuador. American Association of Physical Anthropologists annual meetings, Atlanta, GA. *American Journal of Physical Anthropology* 159(S62):307.
- 2015 **Urlacher SS**, Snodgrass JJ, Liebert MA, Cepon-Robins TJ, Gildner TE, Sugiyama LS. The Shuar Health and Life History Project: Childhood somatic resources, linear growth, and immune function among indigenous Amazonians. American Association of Physical Anthropologists annual meetings, St. Louis, MO. *American Journal of Physical Anthropology* 156(S60):311.
- 2015 **Urlacher SS**, Blackwell AD, Liebert MA, Madimenos FC, Snodgrass JJ, Sugiyama LS. The Shuar Health and Life History Project: Height, weight and body mass index references for the indigenous Shuar of Ecuador. Human Biology Association annual meetings, St. Louis, MO. *American Journal of Human Biology* 27(2):290.
- 2015 Konečná M and **Urlacher SS**. Male social status and its predictors among forager-horticulturalists of Papua New Guinea. Polish Society for Human and Evolution Studies annual meetings, Poznan, Poland.
- 2015 Eick G, **Urlacher SS**, Kowal P, Snodgrass JJ. What a drop can(t) do: Methodological challenges associated with incorporating dried blood spot biomarkers into population-based research. Biomarker Network annual meetings, San Diego, CA.
- 2015 Cepon TJ, Gildner TE, Liebert, MA, **Urlacher SS**, Madimenos FC, Snodgrass JJ, Sugiyama LS. The Shuar Health and Life History Project: Testing the Hygiene Hypothesis – Soil transmitted helminth infection and immune dysregulation among the Shuar of Amazonian Ecuador. American Association of Physical Anthropologists annual meetings, St. Louis, MO. *American Journal of Physical Anthropology* 156(S60):104.
- 2015 Gildner TE, Cepon TJ, Liebert, MA, **Urlacher SS**, Snodgrass JJ, Madimenos FC, Sugiyama LS. The Shuar Health and Life History Project: market integration, age, and intestinal helminth intensity among an indigenous lowland Ecuadorian population. Human Biology Association annual meetings, St. Louis, MO. *American Journal of Human Biology* 27(2):269.
- 2014 **Urlacher SS**, Liebert, MA, Cepon TJ, Snodgrass JJ, Gildner TE, Colehour AM, Ellison PT, Sugiyama LS. Childhood immune function and growth: Insight from repeat measures among the Amazonian Shuar. Human Biology Association annual meetings, Calgary, Canada. *American Journal of Human Biology* 26(2): 283. ****Winner of the Edward E. Hunt, Jr. Student Award for outstanding conference presentation****
- 2014 **Urlacher SS** and Kramer KL (2014). Longitudinal changes in childhood time allocation, physical activity level, and anthropometry in a rapidly modernizing indigenous Maya community. American Anthropological Association annual meetings, Washington, DC. ****Winner of the evolutionary anthropology section Best Student Paper Award****
- 2014 **Urlacher SS**, Liebert, MA, Cepon TJ, Snodgrass JJ, Gildner TE, Colehour AM, Ellison PT, Sugiyama LS.. Measurement of short-term linear growth using knemometry among the Shuar. American Association of Physical Anthropologists annual meetings, Calgary, Canada. *American Journal of Physical Anthropology* 153(S58): 258.

- 2014 Cepon TJ, Liebert, MA, Gildner TE, Madimenos FC, **Urlacher SS**, Blackwell AD, Snodgrass JJ, Sugiyama. The Shuar Health and Life History Project: Chronic and infectious disease burden among the Shuar – The complicated nature of epidemiological transitions. Human Biology Association annual meetings, Calgary, Canada. *American Journal of Human Biology* 26(2):261.
- 2014 Liebert MA, Snodgrass JJ, **Urlacher SS**, Cepon-Robins TJ, Gildner TE, Madimenos FC, Colehour AM, Bribiescas RG, Sugiyama LS. The Shuar Health and Life History Project: The role of market integration and life history trade-offs on diurnal cortisol among Indigenous Shuar children of Amazonian Ecuador. Human Biology Association annual meetings, Calgary, Canada. *American Journal of Human Biology* 26(2):270.
- 2014 Madimenos FC, Liebert MA, Cepon-Robins TJ, Gildner TE, **Urlacher SS**, Blackwell AD, Snodgrass JJ, Sugiyama LS. The Shuar Health and Life History Project: Hypertriglyceridemia among Cross-Cutucu Shuar - Exploring etiologies and prevention strategies. Human Biology Association annual meetings, Calgary, Canada. *American Journal of Human Biology* 26(2):271.
- 2014 Sugiyama LS, Madimenos FC, Liebert MA, **Urlacher SS**, Cepon-Robins TJ, Blackwell AD, Gildner TE, Gandolfo TR, Colehour AM, Bribiescas RG, Snodgrass JJ. Getting a grip on phenotypic quality: Shuar Health and Life History Project analysis of grip strength as an indicator of phenotypic quality and health. American Association of Physical Anthropologists annual meetings, Calgary, Canada. *American Journal of Physical Anthropology* 153(S58): 249.
- 2013 Liebert MA, Snodgrass JJ, **Urlacher SS**, Cepon-Robins TJ, Colehour AM, Gildner TE, Sugiyama LS. The Shuar Health and Life History Project: The psychosocial stress response of children from varying degrees of market integration in an indigenous lowland Ecuadorian population. Human Biology Association annual meetings, Knoxville, TN. *American Journal of Human Biology* 25(2):264.
- 2013 Cepon-Robins TJ, Gildner TE, Liebert MA, Colehour AM, **Urlacher SS**, Snodgrass JJ, Madimenos FC, Sugiyama LS. The Shuar Health and Life History Project: Market integration, avoidance behavior, and intestinal helminths among an indigenous lowland Ecuadorian population. Human Biology Association annual meetings, Knoxville, TN. *American Journal of Human Biology* 25(2):253.
- 2012 **Urlacher SS** Liebert MA, Cepon TJ, Snodgrass JJ, Sugiyama LS. The Shuar Health and Life History Project: Knemometric assessment of short-term childhood growth in an indigenous Amazonian population. Human Biology Association annual meetings, Portland, OR. *American Journal of Human Biology* 24(2):234.
- 2012 Cepon TJ, Liebert, MA, **Urlacher SS**, Snodgrass JJ, Madimenos FC, Sugiyama LS. The Shuar Health and Life History Project: The effects of market integration on intestinal helminth levels among the Shuar of Amazonian Ecuador. Human Biology Association annual meetings, Portland, OR. *American Journal of Human Biology* 24(2):222.
- 2012 Liebert MA, Snodgrass JJ, Cepon TJ, **Urlacher SS**, Madimenos FC, Sugiyama LS. The Shuar Health and Life History Project: The relationship between market integration and diurnal salivary cortisol rhythms of children in an indigenous lowland Ecuadorian population. Human Biology Association annual meetings, Portland, OR. *American Journal of Human Biology* 24(2): 232.

TEACHING EXPERIENCE

2015	Human Evolutionary Biology 97, 'Sophomore Tutorial' (Graduate Teaching Fellow)
2014	Human Evolutionary Biology 97, 'Sophomore Tutorial' (Graduate Teaching Fellow)
2012	Human Evolutionary Biology and Spanish Language (University Peer Tutor)
2008	Anthropology 1320, 'Human Origins and Variability' (Teaching Assistant)

PROFESSIONAL AWARDS AND HONORS

2015	Alan and Barbara Washkowitz Dissertation Fellowship, Harvard University
2014	Award for Best Student Paper of the Annual Meetings, American Anthropological Association, Evolutionary Anthropology Section
2014	Edward E. Hunt, Jr. Student Award for the Best Paper of the Annual Meetings, Human Biology Association
2009	George W. Hagy Prize for Outstanding Undergraduate Thesis, Brown University, Department of Human Biology
2009	Award for Outstanding Undergraduate in Biological Anthropology, Brown University, Department of Anthropology

PROFESSIONAL AFFILIATIONS

2016-present	New York Academy of Science
2014-present	American Anthropological Association
2009-present	American Association of Physical Anthropologists
2009-present	Human Biology Association

PROFESSIONAL SERVICE

2016-present	Scientific Committee member, American Association of Physical Anthropologists
2011-2012	Graduate student representative, Harvard University, Department of Human Evolutionary Biology