

## CURRICULUM VITAE

Mark V. Sorensen  
Associate Professor  
Department of Anthropology  
University of North Carolina  
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### **Education:**

2003 Ph.D., Northwestern University (Biological Anthropology)  
1998 M.A., University of Florida (Anthropology, Interdisciplinary Concentration in Statistics)  
1996 B.A., University of Florida (Anthropology & Russian, with Honors)

### **Academic appointments:**

2003 – Associate Professor, Department of Anthropology and Global Studies Curriculum,  
University of North Carolina at Chapel Hill

### **Research Interests:**

Biocultural perspectives on health and disease; diet, nutritional assessment; anthropometry; obesity and the metabolic syndrome; stress and immune function; human adaptability

### **Honors and Awards:**

International Center Summer Study Abroad Merit Scholarship, University of Florida, 1994  
Bredahl Graduate Fellowship, University of Florida 1996-1997  
Buehler Center on Aging, Northwestern University Summer Training Program, 1999  
Friends of Anthropology at Northwestern University Research & Travel Award, 2001

### **Books:**

2013 Flora Lu and Mark Sorensen (eds.). *Integración al Mercado y Salud Indígena en el Nororiente Ecuatoriano*. Quito, Ecuador: Abya Yala Press. 250 pp.

### **Book Chapters:**

2013 Mark Sorensen and Kelly Houck. *Los Efectos de la Integración del Mercado en los estados de Nutrición y Crecimiento*. In Flora Lu and Mark Sorensen (eds.), *Integración al Mercado y Salud Indígena en el Nororiente Ecuatoriano*. Quito, Ecuador: Abya Yala Press. pp 41-63.

2008 Leonard WR, Snodgrass JJ, Sorensen MV. *Health Consequences of Social and Ecological Adversity Among Indigenous Siberian Populations: Biocultural and Evolutionary Interactions*. In Catherine Panter-Brick and Agustin Fuentes (eds.), *Health, Risk, and Adversity*. New York: Berghan Books, pp. 26-51.

### **Refereed Publications:**

2019 Rachel Wilbur, Jacob Griffin, Mark Sorensen Robert Furberg. *Establishing Digital Biomarkers for Occupational Health Assessment in Commercial Salmon Fishermen: A Mixed-Methods Study Design*. *JMIR Research Protocols* 7:e10215.

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- 2014 Flora Lu, Nestor Silva, Krysta Villeda, and Mark Sorensen. Cross-Cultural Perceptions of Risks and Tenables among Native Amazonians in Northeastern Ecuador. *Human Organization* 73: 375-388.
- 2013 Houck, K, Sorensen, MV, Lu, F, Alban, D, Alvarez, K, Hidobro, D, Doljanin C, Ona A. The Effects of Market Integration on Childhood Growth and Nutritional Status: the Dual Burden of Under- and Over-Nutrition in the Northern Ecuadorian Amazon. *American Journal of Human Biology* 25: 524-533.
- 2010 Barsukov AP, Klimova TM, Sorensen MV, Scherbuk IA, Krivoschapkin BG. Characteristics of plasma adiponectin among indigenous populations of the Republic of Sakha (Yakutia). *Vestnik Novosibirskogo Gosudarstvennogo Universiteta. Seria Biologia, Klinicheskaya Meditsina.* 8: 74-78. [in Russian]
- 2010 Doughty, C., Lu, F, Sorensen M. Crude, Cash and Culture Change: The Huaorani of Amazonian Ecuador. *Consilience* 4: 18-32.
- 2009 Barsukov, AP, Antonov, AR, Sorensen, MV. Anthropometric characteristics of the indigenous population of the Republic of Sakha (Yakutia). *Vestnik Novosibirskogo Gosudarstvennogo Universiteta. Seria Biologia, Klinicheskaya Meditsina.* 7: 54-62. [in Russian]
- 2009 Leonard, WR, Sorensen, MV, Mosher, MJ, Spitsyn, VA, Comuzzie, AG. Reduced fat oxidation and obesity risks among the Buryat of Southern Siberia. *American Journal of Human Biology* 21: 664-70.
- 2009 Sorensen, MV, Snodgrass, JJ, Leonard, WR, McDade, TW, Tarskaya, LA, Ivanov, KI, Krivoschapkin VG, Alekseev, VP. Lifestyle Incongruity, Stress and Immune Function in Indigenous Siberians: The Health Impacts of Rapid Social and Economic Change. *American Journal of Physical Anthropology* 138: 62-69.
- 2008 Snodgrass JJ, Leonard WR, Sorensen, MV, Tarskaia LA, Mosher MJ. The influence of basal metabolic rate on blood pressure among indigenous Siberians. *American Journal of Physical Anthropology* 137: 245-255.
- 2008 Zlojutro, M, LA Tarkaia, M Sorenson, JJ Snodgrass, WR Leonard, and MH Crawford. The origins of the Yakut people: Evidence from mitochondrial DNA diversity. *International Journal of Human Genetics* 8: 119-130.
- 2007 Yount S, Sorensen MV, Cella D, Sengupta N, Grober J, Chartash EK. Effective Treatment of Fatigue in Rheumatoid Arthritis with the Fully Human Anti-TNF Monoclonal Antibody Adalimumab. *Journal of Clinical and Experimental Rheumatology* 25: 838-846.
- 2007 Snodgrass JJ, Leonard WR, Tarskaia LA, McDade TW, Sorensen MV, Alekseev VP, Krivoschapkin VG. Anthropometric correlates of C-reactive protein among indigenous Siberians. *J Physiol Anthropol.* 2007 Mar;26(2):241-6.
- 2007 Snodgrass, JJ, Sorensen, MV, Tarskaia, LA, Leonard, WR. Adaptive dimensions of health research among indigenous Siberians. *American Journal of Human*

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- Biology 19: 165-180.
- 2006 Sorensen, MV, Leonard, WR, Tarskaya, LA, Ivanov, KI, Snodgrass, JJ, Krivoschapkin, VG, Rifai, N. High sensitivity c-reactive protein, adiposity and blood pressure in the Yakut of Siberia. *American Journal of Human Biology* 18:766-775.
- 2006 Verbenko DA, Slominsky PA, Spitsyn VA, Bebyakova NA, Khusnutdinova EK, Mikulich AI, Tarskaia LA, Sorensen MV, Ivanov VP, Bets LV, Limborska SA. Polymorphisms at locus D1S80 and other hypervariable regions in the analysis of Eastern European ethnic group relationships. *Ann Hum Biol.* 33:570-84.
- 2006 Snodgrass, JJ, Leonard, WR, Sorensen, MV, Tarskaya, LA, Alekseev, VP, Krivoschapkin, VG. Emergence of obesity in indigenous Siberians. *Journal of Physiological Anthropology* 25: 75-84.
- 2005 Sorensen, MV, Leonard, WR, Snodgrass, JJ, Tarskaya, LA, Spitsyn, VA, LA, Ivanov, KI, Krivoschapkin, VG. Health consequences of post socialist transition: dietary and lifestyle determinants of plasma lipids in Yakutia. *American Journal of Human Biology* 17: 576-592.
- 2005 Leonard, WR, Snodgrass, JJ, Sorensen MV. Metabolic adaptation in indigenous Siberian populations. *Annual Review of Anthropology* 34: 451-471.
- 2005 Cella DF, Yount S, Sorensen MV, Birbara C, Boggs R, Sengupta N, Fishkoff S, Chartash E. Validation of the Functional Assessment of Chronic Illness Therapy Fatigue scale relative to other instrumentation in patients with rheumatoid arthritis. *Journal of Rheumatology* 32: 811-819.
- 2005 Yost KJ, Sorensen MV, Hahn EA, Glendenning GA, Gnanasakthy A, Cella D. Using patient-, physician-, and distribution-based estimates to evaluate clinically meaningful change on the Functional Assessment of Cancer Therapy-Biologic Response Modifiers (FACT - BRM) scale. *Value in Health* 8:117-127.
- 2003 Sorensen, MV. Social and Biological Determinants of Cardiovascular Risk among Rural and Urban Yakut: The Impact of Socioeconomic Upheaval. Ph.D. Dissertation, Northwestern University, Evanston, Illinois.
- 2003 Hahn EA, Glendenning GA, Sorensen MV, Hudgens SA, Dobrez DG, Cella DF. Quality of life in patients with newly diagnosed chronic phase chronic myeloid leukemia on imatinib versus interferon alfa plus low-dose cytarabine: results from the IRIS Study. *Journal of Clinical Oncology* 11: 2138-2146.
- 2003 Verbenko DA, Pogoda TV, Spitsyn VA, Mikulich AI, Bets LV, Bebyakova NA, Ivanov VP, Abolmasov NN, Pocheshkova EA, Balanovskaya EV, Tarskaya LA, Sorensen MV, Limborska SA. Apolipoprotein B 3'-VNTR Polymorphism in Eastern European populations. *European Journal of Human Genetics* 11: 444-451.
- 2002 Leonard WR, Sorensen MV, Galloway VA, Spencer GJ, Osipova L, Spitsyn VA. Climatic influences on basal metabolic rates among circumpolar populations. *American Journal of Human Biology* 14: 609-620.

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- 2001 Feinglass JF, Pearce WH, Martin GJ, Gibbs J, Cowper D, Sorensen M, Khuri S, Daley J, Henderson WG. Postoperative and Late Survival Outcomes after Major Amputation: Findings from the Department of Veterans Affairs National Surgical Quality Improvement Program. *Surgery* 130:21-29.
- 2001 Feinglass JF, Pearce WH, Martin GJ, Gibbs J, Cowper D, Sorensen M, Khuri S, Daley J, Henderson WG. Postoperative and Amputation-free Survival Outcomes after Femorodistal Bypass Graft Surgery: Findings from the Department of Veterans Affairs National Surgical Quality Improvement Program. *Journal of Vascular Surgery* 34: 283-290.
- 2001 Miloserdova OV, Slominsky PA, Tarskaya LA, Sorensen MV Spitsyn VA, Limborskaya SA. Polymorphic Markers of the Angiotensin and Angiotensin-Converting Enzyme Genes in Yakuts: A Lack of Association with Blood Pressure. *Genetika* 37: 712-715 [In Russian].
- 2001 Sorensen, MV, Leonard, WR. Neandertal energetics and foraging efficiency. *Journal of Human Evolution* 40: 483-495.

### Published Conference Abstracts:

- 2018 J Griffin, **M Sorensen**, AP Barsukov, TM Klimova. Adiponectin and the pathogenesis of cardiovascular disease: a global comparison of the utility of adiponectin as a predictor of cardiovascular disease risk. *American Journal of Human Biology* 30: 17
- 2018 KM Houck, AL Thompson, **MV Sorensen**. Immunoregulatory effects of childhood endotoxemia on total-IgE response: implications for the hygiene hypothesis from Galapagos, Ecuador. *American Journal of Human Biology* 30: 19.
- 2018 C Owens, KM Houck, KJ Barrett, AL Thompson, **MV Sorensen**. Effects of psychosocial stress and BMI on c-reactive protein in a student sample. *American Journal of Human Biology* 30: 32.  
A study of dietary transition among indigenous communities in the Northern Ecuadorian Amazon. G Skeltis, **MV Sorensen**, F Lu. *American Journal of Human Biology* 30: 41.
- 2018 R Wilbur, JS Griffin, **M Sorensen**, R Furberg. The physical and psychological impacts of occupational stress experienced by commercial salmon fisherman in Bristol Bay, Alaska. *American Journal of Human Biology* 30: 47.
- 2017 Griffin JS, Sorensen MV, Barsukov AP, Klimova, TM. Association of C-reactive protein, Interleukin-6, Adiponectin, and Body Composition to Cardiometabolic Risk in Indigenous Siberians. Poster presentation at the 42nd Meeting of the Human Biology Association, New Orleans, L A. April 19-20, 2017.
- 2017 Houck K, Thompson A, Sorensen M. Effects of early life fecal pathogen exposure on the gut microbiome in children from Galapagos, Ecuador. *American Journal of Human Biology*. 29(2).
- 2016 Houck K, Thompson A, Sorensen M. E. coli exposure, intestinal barrier function and immune health in Galapagos, Ecuador. *American Journal of Physical Anthropology*. 159:178.

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- 2016 Houck K, Thompson A, Sorensen. Childhood intestinal health, immune function and the gut microbiome in Galapagos, Ecuador. *American Journal of Human Biology*. 28(2):281
- 2016 KM Houck, ALThompson, MV Sorensen. Childhood intestinal health, immune function and the gut microbiome in Galapagos, Ecuador. *American Journal of Human Biology* 28: 281.
- 2016 MV Sorensen, F Lu, K Houck. Impact of market integration on under- and overnutrition in the Ecuadorean Amazon. *American Journal of Human Biology* 28: 297
- 2015 Houck K, Thompson A, Sorensen M. Exploring the effects of energy reserves in modifying tradeoffs between immunostimulation and growth in children from Galapagos, Ecuador. *American Journal of Human Biology*. 27(2):271.
- 2015 Houck K, Thompson A, Sorensen M. Effects of early life pathogenic exposures and obesity on childhood inflammation levels in Galápagos, Ecuador. *FASEB Journal*. 29(Supplement):252.7.
- 2014 KM Houck, AL Thompson, MV Sorensen. Dual burden impact of obesity status and *E. coli* exposure on childhood CRP levels in the Galapagos, Ecuador. *American Journal of Human Biology* 26: 268
- 2011 MV Sorensen, F Lu, K Houck, A Oña, K Álvarez, D Hidobro, C Doljanin, D Albán. A cross-cultural study of integration to the market and indigenous health in the Ecuadorian Amazon. *American Journal of Human Biology* 23: 278. Podium presentation.
- 2007 WR Leonard, JJ Snodgrass, MV Sorensen. Physical activity and subsistence energy expenditure in circumpolar populations. *American Journal of Human Biology* 19(2): 292.
- 2006 Sorensen, MV, Leonard, WR, Snodgrass, JJ, Tarskaya, LA, Krivoschapkin, VG, Rifai, N. High sensitivity c-reactive protein and cardiovascular risk in Yakut. *American Journal of Human Biology* 18: 274-275.
- 2006 Snodgrass, JJ, Sorensen, MV, Leonard, WR. Adaptive dimensions of health research among indigenous Siberians. *American Journal of Human Biology* 18: 276. Podium presentation.
- 2005 William R. Leonard, J. Josh Snodgrass, Mark V. Sorensen, Larissa Tarskaia, V.P. Alekseev, V.G. Krivoschapkin. Health consequences of economic and lifestyle changes among indigenous Siberian populations: The emergence of the Metabolic Syndrome. *American Journal of Physical Anthropology* 126(S40): 137. Podium presentation.
- 2005 Snodgrass JJ, Leonard WR, Tarskaia LA, Sorensen MV, Alekseev VP, Krivoschapkin VG. Health and economic modernization in the Yakut (Sakha) of Siberia. *American Journal of Human Biology* 17: 256. Podium presentation.
- 2004 Hahn EA, Glendenning GA, Sorensen MV, Hudgens SA, Cella D, Du H, Cashy J. Addressing methodological challenges in analyzing quality of life data in a clinical trial. *Clinical Trials*; 2:218. Poster.
- 2004 Leonard WR, Comuzzie AG, Sorensen MV, Mosher MJ, Spitsyn VA. Leptin, body composition and energy metabolism in the Buryat herders of Southern Siberia. *American Journal of Physical Anthropology* 123: S134. Podium presentation.

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- 2004 Zlojutro, M, Sorensen, M, Snodgrass, JJ, Tarskaya, LA, Crawford, MH. Mitochondrial DNA variation in Yakutia: Genetic structure of an expanding population. *American Journal of Human Biology* 16: 230. Poster.
- 2003 Hahn EA, Glendenning GA, Sorensen MV, Hudgens SA, Cella DF. Addressing methodological challenges in analyzing QOL data in a clinical trial. *Quality of Life Research* 12: 731. Poster.
- 2003 Sorensen, MV, Snodgrass, JJ, Tarskaya, LA, Shadrina, OV, Leonard, WR. High Sensitivity C-Reactive Protein and Cardiovascular Risk in Indigenous Siberians. *American Journal of Human Biology* 15: 285. Poster.
- 2003 Zlojutro, M, Sorensen, M, Snodgrass, JJ, Tarskaya, LA, Crawford, MH. Mitochondrial DNA Analysis in Yakutia: Implications for the Genetic History of Northern Siberia. *American Journal of Human Biology* 15: 291. Poster.
- 2002 Hahn, E, Gnanasakthy, A, Glendenning, GA., Sorensen, MV., Odom, L, Cella, D. Using patient- and clinician-rated anchors to evaluate change on the Functional Assessment of Cancer Therapy-Biologic Response Modifiers. *Clinical Therapeutics*, 24 (Suppl B): 19-20. Poster.
- 2002 Hahn, EA, Sorensen, MV, Hudgens, SH, Glendenning, GA. The quality of life of patients with chronic phase chronic myeloid leukemia in the IRIS study of Interferon-alpha plus ARA-C vs Imatinib (STI751, Glivec®). *European Haematology Association 7th Annual Meeting (Proceedings)*. Poster.
- 2002 Sorensen, MV, McDade, TW, Snodgrass, JJ, Tarskaya, LA, Shadrina, OV. Stress induced immunosuppression and self-rated health in an indigenous Siberian population. *Quality of Life Research* 11: 237. Podium presentation.
- 2001 Iris, M, Sorensen, M. Use of congregate dining programs and nutritional and health status of seniors: mailed survey results. *Gerontologist* 41(Special Issue 1): 122. Poster.
- 2001 Snodgrass JJ, Leonard WR, Sorensen MV. Variation in field metabolic rates among primates and other mammals: Implications for human evolutionary biology. *American Journal of Physical Anthropology* 32 (Suppl.): 140. Poster.
- 2000 Mosher, MJ, Sorensen, MV, Leonard, WR, Kamboh MI. Genetic and environmental covariates of low serum lipids in the Buriat. *American Journal of Human Biology* 12: 268. Poster.
- 2000 Sorensen, MV, Spitsyn, VA, Tarskaya, LA. Health effects of political and economic transition on indigenous Siberian populations. *American Journal of Human Biology* 12:269. Poster. Poster.
- 2000 Tarskaya, LA, Sorensen, MV, Spitsyn, VA. DNA analysis of a Yakut population. *American Journal of Human Biology* 12: 283. Poster.

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- 1999 Sorensen, MV, Leonard, WR, Mosher, MJ, Spencer, GJ, Spitsyn, VA, Shenin, VA. Correlates of Variation in Basal Metabolism among the Buryat of Southern Siberia. *American Journal of Human Biology* 11: 130. Podium presentation.
- 1998 Sorensen, MV, Leonard, WR. Neandertal Energetics and Foraging Efficiency. *American Journal of Physical Anthropology* 26(Suppl): 206. Podium presentation.

### **Other Presentations and Invited Talks:**

"The Effects of Market Integration on Childhood Health and Well-Being in the Ecuadorean Amazon." Broom Center workshop on Indigenous Health and Well-Being, UCSB, March 2014.

"A Cross-Cultural Study of Integration to the Market and Indigenous Health in the Ecuadorian Amazon." Conference presentation at the American Anthropological Association meetings in Philadelphia, November 2009.

"Risk and Resilience in North Coast Peru: The Impacts of privatization, economic development and Biofuels Production on Health and Well-Being." Conference presentation at the American Anthropological Association meetings in San Francisco, November 2008.

"Becoming Human: The Pleistocene Emergence of the Human Species." Public lecture as part of the "What's the Big Idea" lecture series on the Science of Evolution at the William and Ida Friday Center for Continuing Education. November 2007.

"Biocultural Approaches to the Study of Health in the Post-Socialist Russia: Economic Status, Stress and Perceived Health in Yakutia." Paper presented at the "Challenges, Choices and Context: Health Behaviors in Eastern Europe and Eurasia" working conference, University of Texas, Austin. March 2007.

### **Research Support:**

- 2010 Indigenous Socio-Economic Change, Health, and Well-Being in the Amazon School for Advanced Research on the Human Experience Seminar November 9-10, 2010 Santa Fe, New Mexico.
- 2008-2012 *A Cross-Cultural Study of Integration to the Market and Indigenous Health in the Ecuadorian Amazon.* In collaboration with Flora Lu at the University of California, Santa Cruz. National Science Foundation (BCS #0822967). \$282,000.00.
- 2008-2010 *Lifestyle, Stress and Risk for the Metabolic Syndrome in Yakutia.* Global Health Research Grant. University of North Carolina School of Public Health. \$14,978.
- 2006-2007 *Rapid Culture Change and Health among Indigenous Siberian Populations.* University of North Carolina Global Health Faculty Research Partnership Grant (GHP). \$4,985.
- 2005-2007 *Rapid Culture Change and Health: Dietary and Psychosocial Determinants of High Blood Pressure among the Altai of Siberia.* University of North Carolina Junior Faculty Development Grant. \$5,000.

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- 2005-2007     *Rapid Culture Change and Health: Dietary and Psychosocial Determinants of High Blood Pressure among the Altai of Siberia.* University of North Carolina University Research Council. \$3,950.
- 2001-2003     *Social and biological determinants of cardiovascular risk among urban and rural Yakut: the impact of socioeconomic upheaval.* (BCS 0130761). National Science Foundation Dissertation Improvement Grant. \$12,000.
- 2001-2003     *Chronic psychosocial stress among urban and rural Yakut: associations with stress-induced immunosuppression and health related quality of life.* Pollack Foundation. \$3,000.

### **Professional Service (past five years):**

#### *Service to UNC and department:*

Administrative Board of the Graduate School 2014-2017  
Academic Policy Committee of the Graduate School 2014-2017  
Department of Anthropology Advisory Committee 2014-present  
Departmental IRB Committee 2008-2009  
Director of Graduate Studies 2010-2013  
Graduate Admissions Committee Chair 2010-2013  
Graduate Studies Committee 2010-2013

#### *Service to Discipline:*

NSF invited panelist 2013-2016  
Reviewer, American Journal of Clinical Nutrition, American Journal of Epidemiology, American Journal of Human Biology, Annals of Human Biology, American Anthropologist, Current Anthropology, Social Science & Medicine