

Curriculum Vitae

Isabelle Sarton Miller Ph.D.

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a. Professional preparation

Post doctorate 2006	Bio-cultural Anthropology, University of Washington
Ph.D. 2005	Bio-cultural Anthropology, University of Washington
M.A. 1996	Bio-cultural Anthropology, University of Washington
M.S. 1976	Biochemistry, Université de Paris XI (France)

b. Appointments

2013-present	Research Associate Central Washington University
2015- Present	Senior Lecturer in the Department of Anthropology and Museum Studies. Central Washington University <ul style="list-style-type: none">- Human Variation and Adaptation in Living Populations (Anth 314)- Advanced Biological Anthropology: Principles of Human Evolution (Anth 311)- Origins and Results of Food Technology: the Gluttonous Human, (IDS 343)- Primate social behavior (Anth 313)- Independent primate study (Anth 496)
2014-2010	Lecturer in the Department of Anthropology and Museum Studies, Central Washington University <ul style="list-style-type: none">- Human Variation and Adaptation in Living Populations (Anth 314)- Origins and Results of Food Technology: the Gluttonous Human, (IDS 343)- Primate social behavior (Anth 313)- Independent primate study (Anth 496)
2015-2006	Lecturer in the Department of World languages (French 121, 122, 123, 221, 222, 223) Everett CC
2012- 2009	Lecturer for the Osher Institute (Human adaptation to the extremes, Origin of food, Exploration of French culture, twenty-four hours virtual visit in Paris) University of Washington
2015-2007	French and culture teaching to businessmen Fortune 500 Company (Expedia), Microsoft, Zodiac, Rigel Capital, BBC Worldwide, the cirque du Soleil and Chief executive officers. http://www.isarton-miller.com/index.html

- 2014-2006 Lecturer in continuing education for the class: "Current Events"
This class explores current international political and other issues
through current French publication.
Lecturer for French credit classes
Bellevue College
- 2006-2005 Postdoctorate Research associate
Lecturer (Introduction to the Principles of Biological Anthropology,
Bio Anth 201)
University of Washington
- 2005-1999 Lecturer (Bio Anth 201 and Bio Anth 370)
University of Washington
- 1998-1996 Teaching Assistant (Bio Anth 201)
University of Washington
- 1980-1978 Research associate in Fetal-Maternal research
Harbor-UCLA medical Center, CA
- 1978-1976 Research associate in enzymology / stereochemistry
Einstein College of Medicine, Yeshiva University, New York.

c. Funding

- 2016 Exceptional Faculty award funds (Everett University Center)
- 2015 Professional development grant (Everett University Center)
- 2004 Research funds (Microsoft)
- 2003 Research funds (Office of Research: University of Washington)
- 2003 NSF Doctoral Dissertation Improvement Grant
- 1999 Pre-Dissertation research Fund (Dept. Anthropology: University of
Washington)
- 1999 Grant from the Center for Labor Studies (Political sciences Dept.:
University of Washington)

d. Publications and professional papers most closely related to my research:

- Sarton-Miller I. and Kramer P. Allometric scaling in energy expenditure of
2010 children performing exercises. AAPA Annual meeting, April 15th,
2010 (Albuquerque), Am J Phys Anthropol. Suppl. 50:206.
- Kramer PA and Sarton-Miller I. The energetics of human walking: is Froude
(2008) Number (Fr) useful for metabolic comparisons? Gait and Posture.
27:209-215.
- Sarton-Miller I. The cost of children's work: How can we easily measure it in the
2007 field? March 2, 2007 University of Nebraska

- Sarton-Miller I. Non-invasive assessment of energy expenditure in children
2006 Am. J Hum. Biol. Am J Hum Biol 18:600–609
- Sarton-Miller I. Estimation of energy expenditure in children: a simple and non-
2006 invasive approach using heart rate and regression modeling. HBA
annual meeting, March 8th, 2006, (Anchorage). Am J Hum Biol 18:
271.
- Sarton-Miller I. and Kramer P. Regression modeling to predict energy
2004 expenditure in children living at sea level. Postures and work done
with the arms or legs are investigated. HBA annual meeting, April
14th, 2004 (Tampa). Am J Hum Biol 16: 222
- Sarton-Miller I. and Kramer P. Regression modeling to predict energy
2004 expenditure: Comparison between adults and children AAPA
annual meeting, April 15th, 2004 (Tampa). Am J Phys Anthropol,
Suppl. S 38:172
- Kramer P. and Sarton-Miller I. Do body proportions matter when predicting the
2004 energy required to walk? AAPA annual meeting, April 15th, 2004
(Tampa). Am J Phys Anthropol, Suppl 30:269. S 38: 128
- Sarton-Miller I, Holman DJ and Spielvogel H. Regression-based prediction of
2003 energy expenditure in children living at high altitude in Bolivia. Biol.
15: 554-565.
- Sarton-Miller I. Gender differences in the work of Aymara children at high
2000 altitude. AAPA annual meeting, April 15th, 2000 (San Antonio). Am
J Phys Anthropol, Suppl 30:269.
- Sarton- Miller I. Which criteria should be chosen to define VO₂max in non-
1998 Western children? AAPA annual meeting, April 3rd 1998
(Salt Lake City). Am J Phys Anthropol, Suppl 26:194.
- Sarton- Miller I and Tracer D. VO₂max in children: problems with the use of “per
1997 body mass” standardization procedures. AAPA annual meeting,
April 5th 1997 (St Louis). Am J Phys Anthropol, Suppl 24:203.
- Sarton-Miller I. Exploring VO₂max in children: a look at the best predictors and
1997 the effects of gender. Student Poster Award Competition, AAAS
Science Innovation Exposition, Feb 14th 1997 (Seattle).

Other publications and professional papers:

- Jobe A, Ikegami M, Sarton-Miller I, Jones S, and Yu G
1981 Characterization of phospholipids and localization of some
phospholipid synthetic and subcellular marker enzymes in

subcellular fractions from rabbit lung. *Biochim. Biophys. Acta* 666:47-57.

Jobe A, Ikegami M and Sarton-Miller I. The in vivo labeling with acetate and palmitate of lung phospholipids from developing and adult rabbits. *Biochim. Biophys. Acta* 617: 65-75.

Jobe A, Ikegami M, Sarton-Miller I, and Barajas L Surfactant metabolism of newborn lamb lungs studied in vivo. *J. appl. physiol.* 49 (6): 1091-1098

Jobe A, Ikegami M, Sarton-Miller I. Palmitic acid synthesized by the developing lungs is a preferred precursor of surfactant phosphatidylcholine. Society for Pediatric Research, American Pediatric Society annual meeting. SPR APS annual meeting, May 3rd 1979 (Atlanta).

Midelfort C F and Sarton-Miller I. The stereochemical course of acetate activation by yeast acetyl-CoA synthetase. *J. Biol. Chem.* 253 (20): 7127-7129

e. Synergistic activities

- 2016 Virgin Islands (Saint Kitts): Aug 2016. Research on non-genetic adjustments to hot and humid climate. How technology affects physiological adjustments.
- 2014-2015 Project performed in Nova Scotia and New Brunswick: Dec 2014 and Aug 2015: Research on the identity and culture of the Acadian people.
- Work with Hedwige Meyer, faculty member of the Canadian Studies Center Jackson School of International Studies at the University of Washington.
- 2013-2014 Work with Dr. Bobe from George Washington University on fossil search of New World Monkeys in Chile.
Work with a veterinarian to study lemurs in Madagascar.
- 2010-2012 Field work in Iceland, studying their strategies of survival for living on a volcanic island.
- 2014-2006 Workshops on human adaptations in extreme environments: Everett CC, Bellevue College, and Osher-University of Washington
- 2006-2007 Explore new fields of research on the Altiplano in North Chile.

- 1999 Worked on the altiplano (4000 m), Bolivia, measuring energy expenditure (EE) in Aymara children using HR monitoring and focal sampling.
Study on the Aymara culture and how culture and biology are intertwined.
- 1997 Explored the problems of standardization and ratios.
- 1996-1995 Research in La Paz, Bolivia looking at cultural and physical adaptations in a life at high altitude in the Aymara children. Assessed EE by measuring sub VO_2 and VO_{2max} in Aymara children. Identified and trouble-shot problems in measuring VO_{2max} in non-Western children. Explored other means of measuring VO_{2max} .

f. Collaborators and other affiliations

E. Waddell, Ph.D. (Department of Geography) University of Laval, Quebec; Hedwige Meyer, faculty member of the Canadian Studies Center Jackson School of International Studies at the University of Washington; R. Bobe, Ph.D. (Department of Anthropology) George Washington University; S. Bulley, Ph.D. (Senior research scientist) in Plant & Food Research institute, New Zealand; W. Leonard, Ph.D. (Department of Anthropology), Northwestern University; P. Kramer, Ph.D. (Department of Anthropology), University of Washington; R. Kronmal, Ph.D. (Department of biostatistics), University of Washington.