

Cara Wall-Scheffler

Associate Professor of Biology
Seattle Pacific University, Suite 205
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Seattle, WA 98119-1997
United States
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EDUCATION & TRAINING

- 2001-2005 **PhD, Department of Biological Anthropology, University of Cambridge**
GATES CAMBRIDGE SCHOLAR
Dissertation: *Coastal Ungulates: The Seasonal Use of Ibex and Barbary Sheep
Among Mediterranean Hominins*
Supervisor: Prof. Robert A. Foley
- 2000-2001 **MPhil, Department of Biological Anthropology, University of Cambridge**
Dissertation: *Seasonality Stress Among Iberian Neanderthals*
Supervisor: Prof. Robert A. Foley
High Pass
- 1995-2000 **BA in Biology, Anthropology, and Literature, Seattle Pacific University**
Summa Cum Laude

PROFESSIONAL APPOINTMENTS

- 2012-Present **Associate Professor of Biology, Seattle Pacific University**
- 2007-Present **Affiliate Faculty of Anthropology, University of Washington**
- 2007-2012 **Assistant Professor of Biology, Seattle Pacific University**
- Evolutionary Mechanisms and Theory
- Into to Biological Anthropology
- Human Anatomy & Physiology
- Human Biological Diversity
- Environmental Physiology
- Women in Science
- 2004-2007 **Post-Doctoral Research Fellow, Department of Zoology, University of Wisconsin**
- with Prof Karen Steudel-Numbers
- 2002-2003 **Instructor, Department of Biological Anthropology, University of Cambridge**

AWARDS & GRANTS

- 2016** 2015-2016 Scholar of the Year, Seattle Pacific University
- 2016** *Principal Investigator*, Faculty Research Grant: What is the future of human evolution?
- 2015** *Principal Investigator*, Faculty Research Grant: What is the future of human evolution?
- 2014** *Principal Investigator*, SCIO via the Templeton Foundation: What is the future of human evolution?
- 2014** *Principal Investigator*, Faculty Research Grant: Why so small? Heterochrony in tooth development as evidence for a life history shift among Blakely deer
- 2013-14** Winner, Abigail Quigley McCarthy Center for Women Annual Research and Creative Work Award--Collaborative Work Category, *with M.J. Myers*
- 2013** *Principal Investigator*, Sexual dimorphism's role in the energetic and thermoregulatory variation of incline walking, MJ Murdock Charitable Trust
- 2013** *Principal Investigator*, Faculty Research Grant: How does pregnancy change the shape of women's pelves?
- 2013** Co-*Principal Investigator*, ECF Grants through the Templeton Foundation: Equipping the Next Generation of Paleobiologists
- 2012** 2011-2012 Professor of the Year, Seattle Pacific University
- 2011** *Principal Investigator*, Faculty Research Grant: Interactive effects of locomotion and reproduction on women's energetics
- 2010** 2009-2010 Junior Faculty Service Award
- 2010** *Collaborator/Consultant*, 3M Collaborative Research Grant, St Catherine University: Where to Carry Kids: A Comparison of Women and Men During Walking
- 2010** 2009-2010 Teacher of the Year in Science and Technology, Seattle Pacific University
- 2009** *Principal Investigator*, Faculty Research Grant: Can we use faunal remains to assess seasonal shifts in climate? Blakely deer as test of climatic shifts in hard tissue remains
- 2009** *Principal Investigator*, Venice Summer School via Templeton Foundation: Are Humans Just Another Unique Species?
- 2007** *Principal Investigator*, Research Start-Up Grants for New Science Faculty, MJ Murdock Charitable Trust
- 2007** *Collaborator/Consultant*, NIH: Belly mass in walking women: Effects of loads on kinematics and energetics, #G11HD039786
- 2003-2004** *Principal Investigator*, Gates Cambridge Trust: Coastal Ungulates: The Seasonal Use of Ibex and Barbary Sheep among Mediterranean Hominins
- 2003** *Principal Investigator*, Lundgren Research Fund: Subsistence Strategies of Mediterranean Hominins
- 2003** *Principal Investigator*, Travel Award, Gates Cambridge Trust: The Seasonality of Site Use of Gibraltar Neanderthals
- 2003** *Principal Investigator*, Travel Award, Department of Biological Anthropology, University of Cambridge: The Seasonality of Site Use of Gibraltar Neanderthals
- 2003** *Principal Investigator*, Tutorial Award, St Edmunds College: The Seasonality of Site Use of Gibraltar Neanderthals
- 2002-2003** Overseas Scholarship, St Edmunds College
- 2002** *Principal Investigator*, Research Bursary, St Edmunds College: Seasonality of Neanderthal Site Use
- 2001-2003** *Principal Investigator*, Gates Cambridge Trust, Appointment as Gates Cambridge Scholar: Seasonal Use of Sites by MIS 3 Neanderthals
- 2000-2001** Overseas Scholar Award, University of Cambridge

PUBLICATIONS

Peer-Reviewed Papers

- Wall-Scheffler, C.M.** & Myers, M.J. (Accepted). Human pelvic sexual dimorphism in the medio-lateral dimension is due to selection from load-carrying walking, not obstetrics. *The Anatomical Record*.
- Wall-Scheffler, C.M.** (2015). Optimal movement speeds in human locomotion. *Integrative and Comparative Biology* 55(6): 1155-1165.
- Wall-Scheffler, C.M.**, Wagnild, J.M.*, & Wagler, E.* (2015). Accounting for human footprint variation while performing a load-bearing task. *PLoS ONE* 10(3): e0118619.
- Wall-Scheffler, C.M.** (2014). The balance between burden carrying, variable terrain and thermoregulatory pressures in assessing morphological variation. In K. Carlson & D. Marchi (Eds), *Reconstructing Mobility: Environmental, Behavioral and Morphological Determinants*. New York: Springer Life Sciences, pp. 173-192.
- Wagnild, J.* & **Wall-Scheffler, C.M.** (2013). Energetic consequences of human sociality: Walking speed choices among friendly dyads. *PLoS One* 8(10): e76576.
doi:10.1371/journal.pone.0076576
- Wall-Scheffler, C.M.** & Myers, M.J. (2013). Reproductive costs for everyone: How female frontal loads impact mobility. *Journal of Human Evolution* 64(5): 448-456.
<http://www.sciencedirect.com/science/article/pii/S0047248413000328>
- Wall-Scheffler, C.M.** (2012). Energetics, locomotion and female reproduction: Implications for human evolution. *Annual Review of Anthropology* 41: 71-85.
<http://www.annualreviews.org/doi/abs/10.1146/annurev-anthro-092611-145739>
- Wall-Scheffler, C.M.** (2012). The meaning of within population dimorphism for group mobility: Can men and women walk together? *Journal of Anthropology* 2012: 340493.
<http://www.hindawi.com/journals/janth/aip/340493/>
- Willcockson, M.* & **Wall-Scheffler, C.M.** (2012). Reconsidering the effects of respiratory constraints on the optimal running speed. *Medicine and Science in Sports and Exercise* 44(7): 1344-1350.
<http://dx.doi.org/10.1249/MSS.0b013e318248d907>
- Wall-Scheffler, C.M.**, Chumanov, E.S., Steudel-Numbers, K.L. & Heiderscheit, B.C. (2010). EMG activity across gait and incline: The impact of muscular activity on human morphology. *American Journal of Physical Anthropology* 143(4): 601-611.
<http://dx.doi.org/10.1002/ajpa.21356>
- Steudel-Numbers, K.L. & **Wall-Scheffler, C.M.** (2009). Optimal running speed and the evolution of hominin hunting strategies. *Journal of Human Evolution* 56: 355-360.
<http://dx.doi.org/10.1016/j.jhevol.2008.11.002>
- Chumanov, E.S., **Wall-Scheffler, C.M.**, & Heiderscheit, B.C. (2008). Gender differences in walking and running on level and inclined surfaces. *Clinical Biomechanics* 23(10): 1260-1268.
<http://dx.doi.org/10.1016/j.clinbiomech.2008.07.011>
- Wall-Scheffler, C.M.** & Foley, R.A. (2008). Digital Cementum Luminance Analysis (DCLA): A tool for the analysis of climatic and seasonal signals in dental cementum. *International Journal of Osteoarchaeology* 18 (1): 11-27. <http://dx.doi.org/10.1002/oa.918>
- Steudel-Numbers, K., Weaver, T., & **Wall-Scheffler, C.M.** (2007). The evolution of human running: Effects of changes in lower limb length on locomotor efficiency. *Journal of Human Evolution* 53(2): 191-196. <http://dx.doi.org/10.1016/j.jhevol.2007.04.001>

* *Denotes Undergraduate Student Researcher*

- Tilkens, M.J., **Wall-Scheffler, C.M.**, Weaver, T. & Steudel-Numbers, K. (2007). The effect of body proportions on thermoregulation: An experimental assessment of Allen's Rule. *Journal of Human Evolution* 53(3): 286-291. <http://dx.doi.org/10.1016/j.jhevol.2007.04.005>
- Wall-Scheffler, C.M.** (2007). Digital Cementum Luminance Analysis and the Hava Fteah hominins: How seasonality and season of use changed through time. *Archaeometry* 49(4): 815-826. <http://www.blackwell-synergy.com/doi/abs/10.1111/j.1475-4754.2007.00342.x>
- Wall-Scheffler, C.M.**, Geiger, K.*, & Steudel-Numbers, K. (2007). Infant Carrying: The role of increased locomotor costs in early tool development. *American Journal of Physical Anthropology* 133(2): 841-846. <http://dx.doi.org/10.1002/ajpa.20603>
- Wall-Scheffler, C.M.**, Myers, M.J., & Steudel-Numbers, K. (2006). The application to bipeds of a geometric model of lower limb segment inertial properties. *Journal of Human Evolution* 51(3): 320-326. <http://dx.doi.org/10.1016/j.jhevol.2006.04.001>
- Wall, C.M.** & Wall, Z.R. (2006). Research design in digital luminance analysis. *Journal of Archaeological Science* 33(8): 1152-1156. <http://dx.doi.org/10.1016/j.jas.2005.12.002>
- Wall, C.M.** (2005). The seasonality of site deposition of Gibraltar Neanderthals: Evidence from Gorham's and Vanguard Caves. *Journal of Iberian Archaeology* 7: 9-22.

Paper in Review

- Alcantara, R.* & **Wall-Scheffler, C.M.** (n.d.). The energetic cost of running with a stroller. Submitted to *British Journal of Sports Medicine*.
- Rathkey, J.*, Chumanov, E., **Wall-Scheffler, C.M.** (n.d.). Monitoring movement: The impact of gait parameters on the metabolic cost of transport in humans during running. Submitted to *PLoS ONE*.
- Rathkey, J.* & **Wall-Scheffler, C.M.** (n.d.). Do people choose to run at their optimal running speed? *Minor revisions for American Journal of Physical Anthropology*.

Book in Preparation

- Wall-Scheffler, C.M.**, Kurki, H., & Auerbach, B. (in prep). *The Evolution of the Human Pelvis: An Integrated Approach*. Cambridge University Press.

Abstracts Published

Submitted

- Gruss, L. & **Wall-Scheffler, C.M.** (submitted). Sex differences in walking kinematics among modern humans. Submitted to the *American Journal of Physical Anthropology*.

2016

- Alcantara, R.* & **Wall-Scheffler, C.M.** (2016). Push it, push it real good: The energetic cost of stroller running. *Integrative and Comparative Biology* 56 (Suppl 1): e251-e400.
- Myers, M.J. & **Wall-Scheffler, C.M.** (2016). Time to kick the treadmill habit? How self-selected walking speed and minimum cost of transport differ between treadmill and overground walking during load carrying. *American Journal of Physical Anthropology Supplement* 62.
- Wall-Scheffler, C.M.** (2016). Human female pelvic dimensions are adapted for load carrying. *American Journal of Physical Anthropology Supplement* 62.

2015

- Apple, E.D.*, Fish, K.J.*, Ouellette, Q.L.*, & **Wall-Scheffler, C.M.** (2015). Thermoregulation variation in women during different phases of the menstrual cycle. *American Journal of Physical Anthropology Supplement* 60: 70.
- Hové, C.M.* & **Wall-Scheffler, C.M.** (2015). Incline mobility and its effect on human sexual dimorphism. *AJPA Supplement* 60: 170.

- Myers, M.J., Steudel-Numbers, K.L., & **Wall-Scheffler, C.M.** (2015). Gross versus net metabolic rate: Which should be used when determining the speed of the minimum cost of transport for human walking? *AJPA Supplement* 60: 233.
- Pedersen, R.,* Barton, N., Turner, E. & **Wall-Scheffler, C.M.** (2015). Prehistoric use of *Ammotragus lervia* at Taforalt Cave, Morocco. *AJPA Supplement* 60: 249-50.
- Thetford, M.* & **Wall-Scheffler, C.M.** (2015). Do kinematics signal energetic optimality? *AJPA Supplement* 60: 303-304.
- Wall-Scheffler, C.M.** (2015). Costlier inside or outside? The costs of baby carrying from pregnancy to weaning. *AJPA Supplement* 60: 317.
- Wall-Scheffler, C.M.** (2015). Optimal movement speeds in human locomotion. *Integrative and Comparative Biology* 55 (Suppl 1): e1-e210.

2014

- Hové, C.M.*, Wagnild, J.M.*, & **Wall-Scheffler, C.M.** (2014). The humor gender gap: How gender and humor interact to influence social behavior. *American Journal of Physical Anthropology Suppl* 58: 145-6.
- Jones, C.*, Hové, C.M.*, Wagnild, J.M.*, & **Wall-Scheffler, C.M.** (2014). How travel time influences sexual dimorphism. *American Journal of Physical Anthropology Suppl* 58: 153.
- Myers, M.J., Lovstad, M.R.*, Kennedy, A.P.*, & **Wall-Scheffler, C.M.** (2014). Thermoregulatory and mobility consequences for reproductive age women carrying loads in an indigenous pack basket. *American Journal of Physical Anthropology Suppl* 58: 192.
- Wagnild, J.* & **Wall-Scheffler, C.M.** (2014). Tough terrain: The effects of incline walking on the human cost of transport curve. *American Journal of Physical Anthropology Suppl* 58: 263-4.
- Wall-Scheffler, C.M.** & Myers, M. (2014). The balance between body size and task in assessing the meaning of pelvic width for human locomotion. *American Journal of Physical Anthropology Suppl* 58: 264.

2013

- Wagnild, J.* & **Wall-Scheffler, C.M.** (2013). Costly courtship: the energetic burden of walking together. *AJPA Suppl* 56: 281.
- Wall-Scheffler, C.M.** (2013). Does pregnancy really inhibit women's mobility? Insights from a longitudinal energetics study. *AJPA Suppl* 56: 282-283.

2012

- Myers, M.J., Fasnacht, A.A.*, **Wall-Scheffler, C.M.** (2012). Sex differences in the stride frequency of walking while carrying a toddler manikin. *MSSE* 44:5 Supplement.
- Wall-Scheffler, C.M.** & Myers, M. (2012). Is female morphology selected for economy and male morphology selected for efficiency? Evidence from studies on humans. *AJPA Suppl* 54: 296.

2011

- Kjosness, K.* & **Wall-Scheffler, C.M.** (2011). Responding to chronic stress: longitudinal perspectives on metabolism. *AJPA Suppl* 52: 188.
- Myers, M., Myhre, A.*, Kpanquoi, M.*, Stearns, L.*, Boeff, K.*, & **Wall-Scheffler, C.M.** (2011). Self-selected walking speeds: Do females and males carrying children choose differently? *AJPA Suppl* 52: 222.
- Wall-Scheffler, C.M.** & Steudel-Numbers, K. (2011). The meaning of within population dimorphism for group mobility. *AJPA Suppl* 52: 303-4.
- Willcockson, M.* & **Wall-Scheffler, C.M.** (2011). Entertaining entrainment: reconsidering the effects of respiratory constraints on the optimal running speed. *AJPA Suppl* 52: 311-2.

2010

- Myers, M.J., Boeff, K.A.*, & **Wall-Scheffler, C.M.** (2010). Effect of age, walking speed and frontal loads on step width and its variability. Society of Integrative and Comparative Biology. <http://www.sicb.org/meetings/2010/SICB2010-Posters.pdf>
- Myers, M.J., Ketter, M.*, Heithoff, A.*, Boeff, K.A.*, Steudel-Numbers, K., & **Wall-Scheffler, C.M.** (2010). Was heat retention important in determining *Homo* infant limb proportions? AJPA Suppl 50: 174-175. <http://www.sicb.org/meetings/2010/SICB2010-Posters.pdf>
- Wall-Scheffler, C.M.** (2010). Evolutionary tradeoffs: How thermoregulation and the cost of mobility impact morphology. AJPA Suppl 50: 238. <http://www.sicb.org/meetings/2010/SICB2010-Posters.pdf>

2009

- Block, L.M.*, Chumanov, E.S., Steudel-Numbers, K.L. & **Wall-Scheffler, C.M.** (2009). How sexual dimorphism and kinematics interact to impact cost over variable terrain. AJPA Suppl 48: 134. <http://www.physanth.org/annmeet/aapa2009/ajpa2009.pdf>
- Gruss, L.T., **Wall-Scheffler, C.M.**, & Malik, N.* (2009). Infant carrying in humans: Interactions between morphometric and gait parameters. AJPA Suppl 48: 211. <http://www.physanth.org/annmeet/aapa2009/ajpa2009.pdf>
- Myers, M.J., Hayes, C.M.*, Hokanson, A.L.*, McCafferty, J.A.*, Meissner, S.M.*, & **Wall-Scheffler, C.M.** (2009). Belly loads influence minimum cost of transport and speed it occurs in walking women. MSSE Supplement 41:5.
- Myers, M.J., Hokanson, A.L.*, Myhre, A.L.*, Mascioli, M.D.*, McCafferty, J.A.*, & **Wall-Scheffler, C.M.** (2009). Grandmothers and mothers on the move: How age and frontal loads affect biomechanics and energetic. AJPA Suppl 48: 302-303. <http://www.physanth.org/annmeet/aapa2009/ajpa2009.pdf>
- Myhre, A.L.*, **Wall-Scheffler, C.M.**, and Myers, M.J. (2009). Belly loads influence arm and lower limb movements in walking women. Minnesota Academy of Science, Undergraduate Symposium.
- Omodt, J.R., Hokanson, A.L.*, **Wall-Scheffler, C.M.**, & Myers, M.J. (2009). Associations between core strength, walking speed, and age in women. MSSE Supplement 41:5.
- Steudel-Numbers, K.L., Weaver, T.D., & **Wall-Scheffler, C.M.** (2009). Just how inefficient is human running? AJPA Suppl 48: 384. <http://www.physanth.org/annmeet/aapa2009/ajpa2009.pdf>
- Wall-Scheffler, C.M.** & Myers, M.J. (2009). Reproductive costs for everyone: How female frontal loads impact mobility. AJPA Suppl 48: 414. <http://www.physanth.org/annmeet/aapa2009/ajpa2009.pdf>

2008

- McCafferty, J.*, Hayes, C.*, Hokanson, A.*, Meissner, S.*, Myers, M.J., (Advisor), and **Wall-Scheffler, C.M.** (Advisor). (2008). Abdominal loads and the cost of walking in women. Minnesota Academy of Science, Undergraduate Symposium. Journal of the Minnesota Academy of Science 71:20. Available online at http://www.journal.mnmas.org/Vol_71_Abstracts.pdf
- Meissner, S.*, Hokanson, A.*, Hayes, C.*, McCafferty, J.*, **Wall-Scheffler, C.M.**, (Advisor), and Myers, M.J. (Advisor). (2008). Speed of minimum cost of walking: age and load-related differences in women. Minnesota Academy of Science, Undergraduate Symposium. Journal of the Minnesota Academy of Science 71: 20-21. http://www.journal.mnmas.org/Vol_71_Abstracts.pdf
- Myers, M.J. & **Wall-Scheffler, C.M.** (2008). Grandmothers getting it done: Somatic durability in walking tasks. AJPA Suppl 46: 160. <http://www.physanth.org/annmeet/aapa2008/AAPA2008abstracts.pdf>
- Steudel-Numbers, K.L. & **Wall-Scheffler, C.M.** (2008) There is an optimal speed of human running: Implications for the evolution of hominin hunting strategies. AJPA Suppl 46: 201. <http://www.physanth.org/annmeet/aapa2008/AAPA2008abstracts.pdf>

Wall-Scheffler, C.M. & Myers, M.J. (2008) Working harder and taking longer: How frontal loads can impact female reproductive costs. *AJPA Suppl* 46: 217.
<http://www.physanth.org/annmeet/aapa2008/AAPA2008abstracts.pdf>

2007

Chumanov, E.S., **Wall-Scheffler, C.M.**, and Heiderscheit, B.C. (2007). Do anatomical measures explain gender differences in hip and pelvis motion during gait? World Confederation of Physical Therapy Conference. Available online at
<http://www.wcpt.org/abstracts2007/WCPT2007.html>

Studel-Numbers, K.L. and **Wall-Scheffler, C.M.** (2007). Is there an optimal speed of human running? *PaleoAnthropology*.
http://www.paleoanthro.org/pdfs/Paleo%20Abstracts%202007_meetings%20version.pdf

Myers, M.J. and **Wall-Scheffler, C.M.** (2007). Role of load carrying in the evolution of increased body size. *AJPA Suppl* 44: 176.
<http://www.physanth.org/annmeet/aapa2007/aapa2007abstracts.pdf>

Studel-Numbers, K., **Wall-Scheffler, C.M.**, Myers, M.J., and Weaver, T.D. (2007). The energetic cost of human running: factors affecting its variability. *AJPA Suppl* 44: 225.
<http://www.physanth.org/annmeet/aapa2007/aapa2007abstracts.pdf>

Wall-Scheffler, C.M., Geiger, K.*, and Studel-Numbers, K. (2007). The role of infant carrying costs on early tool development. *AJPA Suppl* 44: 242-3.
<http://www.physanth.org/annmeet/aapa2007/aapa2007abstracts.pdf>

Chumanov, E.S., **Wall-Scheffler, C.M.**, Thelen, D.G., and Heiderscheit, B.C. (2007). Gender differences in hip and pelvis motion as a function of gait, speed and incline. American Physical Therapy Association.
http://www.apta.org/AM/Template.cfm?Section=Combined_Sections_Meeting_CSM_&Template=/TaggedPage/TaggedPageDisplay.cfm&TPLID=154&ContentID=33936

2006

Myers, M.J., **Wall-Scheffler, C.M.**, Weaver, T.D., and Studel-Numbers, K.L. (2006). Complex effect of limb length on cost of transport of running humans. *Society of Integrative and Comparative Biology*.
<http://www.sicb.org/meetings/2007/schedule/abstractdetails.php?id=922>

Tilkens, M.J., **Wall, C.M.**, Weaver, T. and Studel-Numbers, K. (2006). The effect of body proportions on thermoregulation: An experimental approach. *AJPA Suppl* 42: 177.
http://konig.la.utk.edu/AJPA_Suppl_42.htm

Wall-Scheffler, C.M. (2006). Lateral excursion of the pelvis and the effect of leg-length. *AJPA Suppl* 42: 184. http://konig.la.utk.edu/AJPA_Suppl_42.htm

<2005

Wall, C.M. (2005). Cementum Luminance Analysis (CLA): A new approach to dental cementum studies. *AJPA Suppl* 40: 217. http://konig.la.utk.edu/AJPA_Suppl_40.pdf

Foley, R.A., Lahr, M.M., and **Wall, C.M.** (2001). Evolutionary geography of Late Pleistocene hominins: The ecology of multiple dispersals. In C. Finlayson (Ed.), *Neanderthals and Modern Humans in Late Pleistocene Eurasia*. Gibraltar: Gibraltar Museum Press, pp.21-25.
<http://www.gib.gi/museum/p300.htm#Evolutionary%20geography>

PRESENTATIONS

2016

- Wall-Scheffler, C.M.** (July 2016). What is human ‘uniqueness’? Invited lecture to St Edmund’s College, Cambridge, UK.
- Alcantara, R.* & **Wall-Scheffler, C.M.** (June 2016). The energetic cost of stroller running. Annual Meeting of the American College of Sports Medicine, Boston, MA, USA.
- Benjamin, G.* & **Wall-Scheffler, C.M.** (May 2016). *Human locomotion: examining energy costs and human behavior associated with load carrying*. Erickson Undergraduate Research Conference, Seattle, WA, USA.
- Davies, K.* & **Wall-Scheffler, C.M.** (May 2016). *Sexual dimorphism in human gait efficiency: An EMG analysis*. Erickson Undergraduate Research Conference, Seattle, WA, USA.
- Erickson, P.* & **Wall-Scheffler, C.M.** (May 2016). *Thermoregulation variation between humans while walking stairs*. Erickson Undergraduate Research Conference, Seattle, WA, USA.
- †Lippert, J.*, McMillen, B.*, Hildebrand, T.*, Courtney, K.*, Long, E.S., & **Wall-Scheffler, C.M.** (May 2016). *Blakely Island deer, developmental heterochrony and the Island Rule*. Erickson Undergraduate Research Conference, Seattle, WA, USA.
- Myers, M.J. & **Wall-Scheffler, C.M.** (April 2016). Time to kick the treadmill habit? How self-selected walking speed and minimum cost of transport differ between treadmill and overground walking during load carrying. Annual Meeting of the American Association of Physical Anthropology, Atlanta, GA, USA.
- Wall-Scheffler, C.M.** (April 2016). Human female pelvic dimensions are adapted for load carrying. Annual Meeting of the American Association of Physical Anthropology, Atlanta, GA, USA.
- Alcantara, R.* & **Wall-Scheffler, C.M.** (January 2016). Push it, push it real good: The energetic cost of stroller running. Annual Meeting of the Society of Integrative and Comparative Biology, Portland, OR, USA.

2015

- Alcantara, R.* & **Wall-Scheffler, C.M.** (November 2015). The energetic cost of stroller running. Murdock Undergraduate Research Conference, Vancouver, WA, USA.
- Wall-Scheffler, C.M.** (September 2015). Energetic effects in women: assessing bi-directional interactions with menstrual phase cycle. Annual Meeting of the Society of Psychophysiological Research, Seattle, WA, USA.
- †Apple, E.D.*, Ouellette, Q.L.*, & **Wall-Scheffler, C.M.** (May 2015). Thermoregulation variation in women during different phases of the menstrual cycle. Erickson Undergraduate Research Conference, Seattle, WA, USA.
- Arnold, L.*, Pedersen, R.*, Long, E.S., & **Wall-Scheffler, C.M.** (May 2015). Heterochrony in tooth development show a life history shift among Blakely deer. Erickson Undergraduate Research Conference, Seattle, WA, USA.
- Thetford, M.* & **Wall-Scheffler, C.M.** (May 2015). Do kinematics signal energetic optimality? Erickson Undergraduate Research Conference, Seattle, WA, USA.
- §Apple, E.D.*, Fish, K.J.*, §Ouellette, Q.L.*, & **Wall-Scheffler, C.M.** (March 2015). Thermoregulation variation in women during different phases of the menstrual cycle. Annual Meeting of the American Association of Physical Anthropology, St Louis, MO, USA.
- Hové, C.M.* & **Wall-Scheffler, C.M.** (March 2015). Incline mobility and its effect on human sexual dimorphism. Annual Meeting of the American Association of Physical Anthropology, St Louis, MO, USA.
- Pedersen, R.*, Barton, N., Turner, E. & **Wall-Scheffler, C.M.** (March 2015). Prehistoric use of *Ammotragus lervia* at Taforalt Cave, Morocco. Annual Meeting of the American Association of Physical Anthropology, St Louis, MO, USA.
- Myers, M.J., Steudel-Numbers, K.L., & **Wall-Scheffler, C.M.** (March 2015). Gross versus net metabolic rate: Which should be used when determining the speed of the minimum cost of transport

for human walking? Annual Meeting of the American Association of Physical Anthropology, St Louis, MO, USA.

[§]Thetford, M.* & **Wall-Scheffler, C.M.** (March 2015). Do kinematics signal energetic optimality? Annual Meeting of the American Association of Physical Anthropology, St Louis, MO, USA.

Wall-Scheffler, C.M. (March 2015). Costlier inside or outside? The costs of baby carrying from pregnancy to weaning. Annual Meeting of the American Association of Physical Anthropology, St Louis, MO, USA. Invited Symposium

Wall-Scheffler, C.M. (January 2015). Optimal movement speeds in human locomotion. Invited Symposium: Towards a general framework for predicting animal movement speeds in nature. Annual Meeting of the Society of Integrative and Comparative Biology, West Palm Beach, Florida, USA. Invited Symposium

2014

Wall-Scheffler, C.M. (July 2014). Human sexual dimorphism from the perspective of mobility strategies. Invited lecture to Department of Anatomy, Otago University, Dunedin, NZ.

Wall-Scheffler, C.M. (July 2014). What does human evolution look like? Some evidence for how people became 'modern'. Invited lecture to St Edmund's College, Cambridge, UK.

Wall-Scheffler, C.M. (June 2014). What makes us human? Some evidence on becoming "human". Invited lecture to Calvin College, Grand Rapids, MI, USA.

†Apple, E.D.*, Fish, K.J.*, Ouellette, Q.L.*, & **Wall-Scheffler, C.M.** (May 2014). Thermoregulation variation in women during different phases of the menstrual cycle. Erickson Undergraduate Research Conference, Seattle, WA, USA.

Arnold, L.*, [§]Pedersen, R.*, Long, E. & **Wall-Scheffler, C.M.** (May 2014). Age structure and survivorship of black-tailed deer (*Odocoileus hemionus columbianus*) on Blakely Island, WA. Erickson Undergraduate Research Conference, Seattle, WA, USA.

Herrman, J.*, Spargo, D.*, Long, E. & **Wall-Scheffler, C.M.** (May 2014). Does heterochrony explain the small size of black-tailed deer (*Odocoileus hemionus columbianus*) on Blakely Island, WA? Erickson Undergraduate Research Conference, Seattle, WA, USA.

^{†§}Hové, C.M.*, Wagnild, J.M.*, & **Wall-Scheffler, C.M.** (May 2014). The humor gender gap: How gender and humor interact to influence social behavior. Erickson Undergraduate Research Conference, Seattle, WA, USA.

Kurita, M.* & **Wall-Scheffler, C.M.** (mentor) (May 2014). The evolution of modern human bipedalism: A biomechanical argument for an arboreal ancestor. Erickson Undergraduate Research Conference, Seattle, WA, USA.

Nieman, C.* & **Wall-Scheffler, C.M.** (mentor) (May 2014). Are male rescuers more likely to save your life? Gender disparity in effective chest compression delivery during cardiopulmonary resuscitation. Erickson Undergraduate Research Conference, Seattle, WA, USA.

[§]Pedersen, R.*, [§]Hové, C.M.*, Wagnild, J.M.*, & **Wall-Scheffler, C.M.** (May 2014). How travel time influences sexual dimorphism. Erickson Undergraduate Research Conference, Seattle, WA, USA.

Wall-Scheffler, C.M. (April 2014). The role of female pelvic width on walking economy and speed: Benefits with few tradeoffs. Invited Symposium: The Obstetrical Dilemma in the Human Pelvis: Constraints, Compromises and Complications. Annual Meeting of the American Association of Anatomists, San Diego, CA, USA.

[§]Hové, C.M.*, Wagnild, J.M.*, & **Wall-Scheffler, C.M.** (April 2014). The humor gender gap: How gender and humor interact to influence social behavior. Annual Meeting of the American Association of Physical Anthropology, Calgary, AB, Canada.

Jones, C.*, [§]Pedersen, R.*, [§]Hové, C.M.*, Wagnild, J.M.*, & **Wall-Scheffler, C.M.** (April 2014). How travel time influences sexual dimorphism. Annual Meeting of the American Association of Physical Anthropology, Calgary, AB, Canada.

- Myers, M.J., Lovstad, M.R.*, Kennedy, A.P.*, & **Wall-Scheffler, C.M.** (April 2014). Thermoregulatory and mobility consequences for reproductive age women carrying loads in an indigenous pack basket. Annual Meeting of the American Association of Physical Anthropology, Calgary, AB, Canada.
- Wagnild, J.* & **Wall-Scheffler, C.M.** (April 2014). How do the phases of the menstrual cycle influence core temperature changes during activity? Undergraduate Symposium, Annual Meeting of the American Association of Physical Anthropology, Calgary, AB, Canada.
- Wagnild, J.* & **Wall-Scheffler, C.M.** (April 2014). Tough terrain: The effects of incline walking on the human cost of transport curve. Annual Meeting of the American Association of Physical Anthropology, Calgary, AB, Canada.
- Wall-Scheffler, C.M.** & Myers, M. (April 2014). The balance between body size and task in assessing the meaning of pelvic width for human locomotion. Annual Meeting of the American Association of Physical Anthropology, Calgary, AB, Canada.

2013

- Wall-Scheffler, C.M.** (November 14, 2013). Hominin subsistence strategies: Access to resources in the context of mobility, morphology and reproduction. Invited Lecture to University of Washington PaleoLunch Lecture Series.
- Wall-Scheffler, C.M.** (October 7, 2013). The meaning of human sexual dimorphism for mobility patterns. Invited Speaker at the University of Victoria Anthropology Colloquium Series.
- Wall-Scheffler, C.M.** (July 2013). What does human evolution look like? Some evidence for how people became 'modern'. Invited Lecture to St Edmund's College, Cambridge, UK.
- Wall-Scheffler, C.M.** & Myers, M.J. (July 2013). The meaning of sexual dimorphism of locomotor morphology. Invited Symposium at the International Conference of Vertebrate Morphology, Barcelona, Spain.
- Wagnild, J.* & **Wall-Scheffler, C.M.** (May 2013). The influences of climate and mobility on the length of the human lower limb. Erickson Undergraduate Research Conference, Seattle, WA, USA.
- [§]Wagnild, J.* & **Wall-Scheffler, C.M.** (April 2013). Costly courtship: the energetic burden of walking together. Annual Meeting of the American Association of Physical Anthropology, Knoxville, TN USA. (Main event and Undergraduate Symposium).
- Wall-Scheffler, C.M.** (April 2013). Does pregnancy really inhibit women's mobility? Insights from a longitudinal energetics study. Annual Meeting of the American Association of Physical Anthropology, Knoxville, TN USA.

2012

- Wall-Scheffler, C.M.** (July 2012). What does human evolution look like? Some evidence for how people became 'modern'. Invited Lecture to St Edmund's College, Cambridge, UK.
- Calvin, C., Rush, A., Long, E.S., **Wall-Scheffler, C.M.** (May 2012). Determining population structure in an island population of *Odocoileus hemionus columbianus* (black-tailed deer) using polarized light microscopy and annual growth layers of dental cementum to estimate age at death. Erickson Undergraduate Research Conference, Seattle, WA, USA.
- Dunn, C. & **Wall-Scheffler, C.M.** (May 2012). Mind your Ps and Qs: Teaching Hardy-Weinberg to Undergraduates. Erickson Undergraduate Research Conference, Seattle, WA, USA.
- Myers, M.J., Fasnacht, A.A.*, & **Wall-Scheffler, C.M.** (May 2012). Sex differences in the stride frequency of walking while carrying a toddler manikin. Annual Meeting of the American College of Sports Medicine, San Francisco, CA USA.
- Spence, P.*, Rathkey, J.*, & **Wall-Scheffler, C.M.** (May 2012). Do people choose to run at their optimal running speed? Erickson Undergraduate Research Conference, Seattle, WA, USA.

- [†]Wagler, E.*, Moore, D.*, & **Wall-Scheffler, C.M.** (May 2012). Fancy footprints and loaded locomotion: Accounting for human footprint variation while performing a load-bearing task. Erickson Undergraduate Research Conference, Seattle, WA, USA.
- Wagnild, J.* & **Wall-Scheffler, C.M.** (May 2012). Costly courtship: The energetic burden of walking together. Erickson Undergraduate Research Conference, Seattle, WA, USA.
- [†]Rathkey, J.*, Chumanov, E., & **Wall-Scheffler, C.M.** (April 2012). A spring in your step: The spring-mass model and the energetic cost of running. Undergraduate Symposium, Annual Meeting of the American Association of Physical Anthropology, Portland, OR USA.
- [§]Sallstrom, J.*, Synder, K.*, & **Wall-Scheffler, C.M.** (April 2012). Baby on the hip: How do urban individuals carry infants? Undergraduate Symposium, Annual Meeting of the American Association of Physical Anthropology, Portland, OR USA.
- [§]Spence, P.*, Rathkey, J.*, & **Wall-Scheffler, C.M.** (April 2012). Do people choose to run at their optimal running speed? Undergraduate Symposium, Annual Meeting of the American Association of Physical Anthropology, Portland, OR USA.
- [§]Wagler, E.*, Moore, D.*, & **Wall-Scheffler, C.M.** (April 2012). Fancy footprints and loaded locomotion: Accounting for human footprint variation while performing a load-bearing task. Undergraduate Symposium, Annual Meeting of the American Association of Physical Anthropology, Portland, OR USA.
- [§]Wagnild, J.* & **Wall-Scheffler, C.M.** (April 2012). Costly courtship: The energetic burden of walking together. Undergraduate Symposium, Annual Meeting of the American Association of Physical Anthropology, Portland, OR USA.
- Wall-Scheffler, C.M.** & Myers, M.J. (April 2012). Is female morphology selected for economy and male morphology selected for efficiency? Evidence from studies on humans. Invited symposium at the annual meeting of the American Association of Physical Anthropology, Portland, OR USA.

2011

- Rathkey, J.*, Chumanov, E.S. & **Wall-Scheffler, C.M.** (November 2011). The spring-mass model and the energetic cost of running. Murdock Undergraduate Research Conference, Seattle, WA, USA.
- Sallstrom, J.* & **Wall-Scheffler, C.M.** (November 2011). Energetically efficient child carrying strategies amongst Seattle dyads. Murdock Undergraduate Research Conference, Seattle, WA, USA.
- Wagnild, J.* & **Wall-Scheffler, C.M.** (November 2011). Group impact on walking speed. Murdock Undergraduate Research Conference, Seattle, WA, USA
- [†]Rathkey, J.* & **Wall-Scheffler, C.M.** (May 2011). The impact of gait parameters on the metabolic cost of transport in humans during running. Erickson Undergraduate Research Conference, Seattle, WA, USA.
- Wilson, Z.*, Long, E. & **Wall-Scheffler, C.M.** (May 2011). Estimation of population structure of black-tailed deer using cementum annuli and polarizing light microscopy. Erickson Undergraduate Research Conference, Seattle, WA, USA.
- Kjosness, K.* & **Wall-Scheffler, C.M.** (April 2011). Responding to chronic stress: longitudinal perspectives on metabolism. Annual meeting of the American Association of Physical Anthropology, Minneapolis, MN, USA. (Main event and Undergraduate Symposium)

[†] Student Award Recipient

[‡] Student Financial Prize Recipient

- Myers, M., Myhre, A.*, Kpanquoi, M.*, Stearns, L.*, Boeff, K.*, & **Wall-Scheffler, C.M.** (April 2011). Self-selected walking speeds: Do females and males carrying children choose differently? Annual meeting of the American Association of Physical Anthropology, Minneapolis, MN, USA. (Main event and Undergraduate Symposium)
- Myhre, A.*, Kpanquoi, M.*, Stearns, L.* (advisors MJ Myers, **CM Wall-Scheffler**). (April 2011). Where to carry kids? A comparison of women and men during walking. National Conference on Undergraduate Research, Ithaca College, Ithaca, NY.
- Omodt, J.R.*, Hokanson, A.L.*, **Wall-Scheffler, C.M.**, & Myers, M.J. (April 2011). Associations between core strength, walking speed, and age in women. Research & Practice in Gerontology, Minneapolis, MN, USA.
- Wall-Scheffler, C.M.** & Steudel-Numbers, K. (April 2011). The meaning of within population dimorphism for group mobility. Annual meeting of the American Association of Physical Anthropology, Minneapolis, MN, USA.
- Willcockson, M.* & **Wall-Scheffler, C.M.** (April 2011). Entertaining entrainment: reconsidering the effects of respiratory constraints on the optimal running speed. Annual meeting of the American Association of Physical Anthropology, Minneapolis, MN, USA. (Main event and Undergraduate Symposium)
- Kpanquoi M.*, Myhre, A.*, Stearns, L.*, & Boeff, K.* (advisors MJ Myers, **CM Wall-Scheffler**) (February 2011). Differences in Walking Speed and Strength in Women and Men Carrying Children. Private College Scholars at the Capitol Day, Minnesota State Capitol.

2010

- Wall-Scheffler, C.M.** (July 2010). What does human evolution look like? Some evidence for how people became 'modern'. Invited Lecture to St Edmund's College, Cambridge, UK.
- Wall-Scheffler, C.M.** (June 2010). Hominin subsistence strategies: Access to resources in the context of mobility, morphology and reproduction. Invited Lecture to Max Planck Institute for Human Evolution, Leipzig, Germany.
- Kjosness, K.* & **Wall-Scheffler, C.M.** (May 2010). Stress is costly: Physiological changes across a 10-week quarter. Erickson Undergraduate Research Conference, Seattle, WA, USA.
- Tewell, K.*, Long, E., & **Wall-Scheffler, C.M.** (May 2010). Poisonous pedigree: Hybrid viability as an indicator for population divergence in *Dendrobates auratus*. Erickson Undergraduate Research Conference, Seattle, WA, USA.
- Wendlandt, C.*, Campbell, D., Long, E., **Wall-Scheffler, C.M.** (May 2010). Genetic and environmental contributions to water-use efficiency and plant growth in *Ipomopsis* hybrid zones. Erickson Undergraduate Research Conference, Seattle, WA, USA.
- [†]Willcockson, M.* & **Wall-Scheffler, C.M.** (May 2010). Entertaining entrainment: Explaining the energetic cost of running in humans. Erickson Undergraduate Research Conference, Seattle, WA, USA.
- Wilson, Z.*, Long, E., & **Wall-Scheffler, C.M.** (May 2010). Population structure of *Odocoileus hemionus columbianus*: Using annual growth layers of dental cementum to estimate age at death. Erickson Undergraduate Research Conference, Seattle, WA, USA.
- Myers, M.J. & **Wall-Scheffler, C.M.** (May 2010). Out on a Limb: The Life and Work of Dr Karen Steudel. Invited presentation to the Department of Zoology, University of Wisconsin, Madison WI, USA
- Myers, M.J., Ketter, M.*, Heithoff, A.*, Boeff, K.A.*, Steudel-Numbers, K., & **Wall-Scheffler, C.M.** (April 2010). Was heat retention important in determining *Homo* infant limb proportions? Annual meeting of the American Association of Physical Anthropology, Albuquerque, NM, USA.

Wall-Scheffler, C.M. (April 2010). Evolutionary tradeoffs: How thermoregulation and the cost of mobility impact morphology. Annual meeting of the American Association of Physical Anthropology, Albuquerque, NM, USA

Wall-Scheffler, C.M. (February 2010). Some evidence: What the fossils, archaeology and genes tell us about becoming human. Gordon College Annual Crum Lecture, Boston, MA, USA.

Myers, M.J., Boeff, K.A.*, & **Wall-Scheffler, C.M.** (January 2010). Effect of age, walking speed, and frontal load on step width and its variability. Annual Meeting of the Society of Integrative and Comparative Biology, Seattle, WA, USA.

2009

Wall-Scheffler, C.M. (November 2009). Closing gaps in the fossil record? The recent lessons of *Ardipithecus* and the emergence of human bipedality. Exploring Darwin and Evolutionary Theory in the 21st Century, Seattle Pacific University, Seattle, WA, USA.

Wall-Scheffler, C.M. (November 2009). The role of gait in selection for human locomotory morphology. Invited Lecturer to SPU's Department of Biology Capstone Lecture Series, Seattle, WA, USA.

Kjosness, K.M.* & **Wall-Scheffler, C.M.** (October 2009). What is the cost of academic pressure? How perceived stress increases metabolism. Murdock Charitable Trust Undergraduate Research Conference, Spokane, WA, USA.

Adams, J.J.*, Kramer, P.A., & **Wall-Scheffler, C.M.** (May 2009). Foot arch morphology variation among humans and energetic cost to running and walking. Erickson Undergraduate Research Conference, Seattle, WA, USA.

Kjosness, K.M.* & **Wall-Scheffler, C.M.** (May 2009). Impact of stress on metabolic cost. Erickson Undergraduate Research Conference, Seattle, WA, USA.

Myers, M.J., Hayes, C.M.*, Hokanson, A.L.*, McCafferty, J.A.*, Meissner, S.M.*, & **Wall-Scheffler, C.M.** (May 2009). Belly loads influence minimum cost of transport and speed it occurs in walking women. Annual Meeting of the American College of Sports Medicine, Seattle, WA, USA.

Omodt, J.R.*, Hokanson, A.L.*, **Wall-Scheffler, C.M.**, & Myers, M.J. (May 2009). Associations between core strength, walking speed, and age in women. Annual Meeting of the American College of Sports Medicine, Seattle, WA, USA.

Wall-Scheffler, C.M. (May 2009). Are Humans simply *Another Unique Species*? Peer-reviewed presentation at the Venice Summer School on Science & Religion, Venice, Italy.

Myhre, A.L.*, **Wall-Scheffler, C.M.**, and Myers, M.J. (April 17 2009). Belly loads influence arm and lower limb movements in walking women. Minnesota Academy of Science, Undergraduate Symposium.

Block, L.M.*, Chumanov, E.S., Steudel-Numbers, K.L. & **Wall-Scheffler, C.M.** (April 2009). How sexual dimorphism and kinematics interact to impact cost over variable terrain. Annual meeting of the American Association of Physical Anthropology, Chicago, IL, USA.

Gruss, L.T., **Wall-Scheffler, C.M.**, & Malik, N.* (April 2009). Infant carrying in humans: Interactions between morphometric and gait parameters. Invited symposium at the annual meeting of the American Association of Physical Anthropology, Chicago, IL, USA.

Myers, M.J., Hokanson, A.L.*, Myhre, A.L.*, Mascioli, M.D.*, McCafferty, J.A.*, & **Wall-Scheffler, C.M.** (April 2009). Grandmothers and mothers on the move: How age and frontal loads affect biomechanics and energetic. Invited symposium at the annual meeting of the American Association of Physical Anthropology, Chicago, IL, USA.

Steudel-Numbers, K.L., Weaver, T.D., & **Wall-Scheffler, C.M.** (April 2009). Just how inefficient is human running? Annual meeting of the American Association of Physical Anthropology, Chicago, IL, USA.

Wall-Scheffler, C.M. & Myers, M.J. (April 2009). Reproductive costs for everyone: How female frontal loads impact mobility. Invited symposium at the annual meeting of the American Association of Physical Anthropology, Chicago, IL, USA.

Wall-Scheffler, C.M. (January 2009). Methods, Mothers and Mobility: How do we understand energetics and human evolution? Invited Lecturer to SPU's Department of Biology Capstone Lecture Series, Seattle, WA, USA.

2008

Gonzalez, M.*, Knoth, J.*, & **Wall-Scheffler, C.M.** (November 2008). Optimal cost of walking and running over ground. Murdock Charitable Trust Undergraduate Research Conference, Tacoma, WA, USA.

Wall-Scheffler, C.M. (September 2008). Methods, Mothers and Mobility: How do we understand energetics and hominin evolution? Invited Lecturer to Simon Fraser University.

Cachorro, A.M. & **Wall-Scheffler, C.M.** (July 2008). Cuando la energía importa: estrategias reproductivas en Evolución Humana. Invited Lecturer to Centro Nacional de Investigación sobre la Evolución Humana, Atapuerca, Spain.

McCafferty, J.*, Hayes, C.*, Hokanson, A.*, Meissner, S.*, Myers, M.J., (Advisor), and **Wall-Scheffler, C.M.** (Advisor). (April 2008). Abdominal loads and the cost of walking in women. Minnesota Academy of Science, Undergraduate Symposium.

Meissner, S.*, Hokanson, A.*, Hayes, C.*, McCafferty, J.*, **Wall-Scheffler, C.M.**, (Advisor), and Myers, M.J. (Advisor). (April 2008). Speed of minimum cost of walking: age and load-related differences in women. Minnesota Academy of Science, Undergraduate Symposium.

Myers, M.J. & **Wall-Scheffler, C.M.** (April 2008). Grandmothers getting it done: Somatic durability in walking tasks. Annual Meeting of the American Association of Physical Anthropologists, Columbus, OH, USA.

Steudel-Numbers, K.L. & **Wall-Scheffler, C.M.** (April 2008) There is an optimal speed of human running: Implications for the evolution of hominin hunting strategies. Annual Meeting of the American Association of Physical Anthropologists, Columbus, OH, USA.

Wall-Scheffler, C.M. & Myers, M.J. (April 2008) Working harder and taking longer: How frontal loads can impact female reproductive costs. Annual Meeting of the American Association of Physical Anthropologists, Columbus, OH, USA.

Chumanov, E.S., **Wall-Scheffler, C.M.**, and Heiderscheit, B.C. (February 2008). Gender differences in joint coupling variability during walking and running. Annual Conference of the American Physical Therapy Association, Nashville, TN, USA.

Wall-Scheffler, C.M. (February 2008). Methods, Mothers and Mobility: How do we understand energetics and hominin evolution? Invited Lecturer to University of Oregon's Institute for Cognitive and Decision Sciences Lecture Series.

2007

Wall-Scheffler, C.M. (November 2007). Influence of infant carrying costs on mobility strategies and tool development. Invited Speaker to the 2nd International Seminar Cátedra Atapuerca, Burgos, Spain.

Chumanov, E.S., **Wall-Scheffler, C.M.**, and Heiderscheit, B.C. (June 2007) Do anatomical measures explain gender differences in hip and pelvis motion during gait? World Physical Therapy Conference, Vancouver, BC, Canada.

- Myers, M.J. and **Wall-Scheffler, C.M.** (March 2007). Role of load carrying in the evolution of increased body size. Annual Meeting of the American Association of Physical Anthropologists, Philadelphia, PA, USA.
- Studel-Numbers, K., **Wall-Scheffler, C.M.**, Myers, M.J., and Weaver, T.D. (March 2007). The energetic cost of human running: factors affecting its variability. Annual Meeting of the American Association of Physical Anthropologists, Philadelphia, PA, USA.
- Wall-Scheffler, C.M.**, Geiger, K.*, and Studel-Numbers, K. (March 2007). The role of infant carrying costs on early tool development. Annual Meeting of the American Association of Physical Anthropologists, Philadelphia, PA, USA.
- Studel-Numbers, K.L. and **Wall-Scheffler, C.M.** (March 2007). Is there an optimal speed of human running? Annual Meeting of the Paleoanthropology Society, Philadelphia, PA, USA.
- Wall-Scheffler, C.M.** (March 2007). Costs of Being Hominin: Interactions and Innovations. Invited presentation to the Department of Zoology, University of Wisconsin, Madison WI, USA.
- Chumanov, E.S., **Wall-Scheffler, C.M.**, Thelen, D.G., and Heiderscheit, B.C. (February 2007). Gender differences in hip and pelvis motion as a function of gait, speed and incline. Annual Conference of the American Physical Therapy Association, Boston, MA, USA.
- Myers, M.J., **Wall-Scheffler, C.M.**, Weaver, T.D., and Studel-Numbers, K.L. (January 2007). Complex effect of limb length on cost of transport of running humans. Annual Conference of the Society of Integrative and Comparative Biology, Phoenix AZ, USA.

2006

- Wall-Scheffler, C.M.** (October 2006). The role of load carrying on early tool development and changes in body size. Invited presentation to the Evolutionary Anthropology Research Group, University of Durham, UK.
- Pulkrabek, J.K., Chumanov, E.S., **Wall-Scheffler, C.M.**, and Heiderscheit, B.C. (April 2006). Hip muscle activity and pelvic motion during level and incline gait. Meeting for the Wisconsin Physical Therapy Association, Wisconsin Dells WI, USA.
- Wall-Scheffler, C.M.** (March 2006). Lateral excursion of the pelvis and the effect of leg-length: Why did Australopithecines retain short legs? Annual Meeting of the American Association of Physical Anthropologists, Anchorage AK, USA.
- Tilkens, M.J., **Wall-Scheffler, C.M.**, Weaver, T. and Studel-Numbers, K. (March 2006). The effect of body proportions on thermoregulation: An experimental assessment of Allen's Rule. Annual Meeting of the American Association of Physical Anthropologists, Anchorage AK, USA.

2005

- Wall-Scheffler, C.M.** (November 2005). Aspects of Human Evolution. Invited presentation to the Department of Biology, College of St Catherine, St Paul MI, USA.
- Wall, C.M.** (April 2005). Cementum Luminance Analysis (CLA): A new approach to dental cementum studies. Annual Meeting of the American Association of Physical Anthropologists, Milwaukee WI, USA.
- Wall, C.M.** (March 2005). Prey Use and the Mediterranean Palaeolithic: New Ways to Assess Seasonality in the Archaeological Record. Invited presentation to the Department of Anthropology, University of Wisconsin, Madison WI, USA.

<2004

- Wall, C.M.** (November 2002). In Pursuit of the Ibx: Seasonality Stress Among Gibraltar Neanderthals. Invited presentation to the Leverhulme Centre for Human Evolutionary Studies, University of Cambridge, UK.

- Wall, C.M.** (October 2001). Seasonality Stress Among Iberian Neanderthals. Invited presentation to the Department of Biological Anthropology, University of Cambridge, UK.
- Foley, R.A., Lahr, M.M., and **Wall, C.M.** (August 2001). Evolutionary geography of Late Pleistocene hominins: The ecology of multiple dispersals. Invited presentation at Calpe 2001: Neanderthals and Modern Humans in Late Pleistocene Eurasia; Ecology and Biogeography, Gibraltar.
- Fitch, C. & **Wall, C.M.** (May 2000). It is all in your 'genes'. Or is it? Invited presentation at Ethics, Values and Personhood in the 21st Century; Personhood Under the Microscope: Information From Neuroscience and Genetics, Seattle Pacific University, Seattle WA, USA.

MEDIA

- 2015: Response, SPU magazine, What is the Value of a University Education? *Op-Ed*
- 2014: Response, SPU magazine, Interview by Jeffrey Overstreet
- 2013: Selected Press for *Men and Women Walking Together*:
 Top 100 News Stories of 2013, <http://www.bbc.co.uk/news/blogs-magazine-monitor-25298982>
<http://www.latimes.com/science/sciencenow/la-sci-sn-walk-this-way-20131023,0,6403052.story>
<http://www.usatoday.com/story/news/nation/2013/10/24/women-men-walking-study/3179369/>
<http://healthland.time.com/2013/10/23/men-walk-slower-when-theyre-in-love/>
- Response, SPU magazine, Hannah Notess
- Response, SPU magazine, Why do I Hypothesize? *Op-Ed*
- 2012: Interview, Professor of the Year, Response, SPU magazine
 Editorial, Response, SPU magazine
- 2010: Response, SPU magazine, Hannah Notess
 American Statesman, Brom Hoban,
<http://www.austin360.com/recreation/slower-running-pace-can-be-less-than-optimal-209436.html>
- 2009: KOMO AM 1000, Lifebeat, Kristin Hanes
 KING 5, Health, Jean Enersen
 Response, SPU magazine, Tracy Norlen
 Science Daily, News, <http://www.sciencedaily.com/releases/2009/03/090319142411.htm>

MEMBERSHIPS

- 2007-present Member, Am. Association for the Advancement of Science (AAAS)
- 2005-present Member, Paleoanthropology Society
- 2002-present Member, International Council for Archaeozoology (ICAZ)
- 2002-present Member, American Association for Physical Anthropology (AAPA)
- 2001-present Fellow, Cambridge Overseas Society

ONGOING SERVICE

- 2014-present Associate Editor, Journal of Human Evolution
- 2010-present **Chair**, AAPA Undergraduate Research Symposium
- 2009-present **Chair**, Seattle Pacific University IRB
- 2008-present Member, AAPA Committee on Diversity

Manuscript Review:

American Journal of Physical Anthropology; BMS Neurology; Comparative Biochemistry & Physiology; Journal of Archaeological Science; Journal of Anatomy; Journal of Human Evolution; PaleoAnthropology; PLoS One; Proceedings of the Royal Society B; International Journal of Women's Health; Perception and Motor Skills; PeerJ; Journal of Experimental Biology;

Book Review: Cambridge University Press; McGraw Hill

External Examiner: Department of Anthropology, University of Victoria

Previous Service

- 2014-2016** SPU Faculty Status Committee
- 2015** Mentor, Physical Anthropology's Women's Mentoring Network
- 2012-2014** Program Committee, American Association of Physical Anthropology
- 2014** Symposium Organizer of 'Beyond the Obstetric Dilemma: How New Studies of the Pelvis are Redefining our Approach to Hominin Evolution', American Association of Physical Anthropology meeting, Calgary, CA.
- 2010-2012** Member, Steering Committee, Physical Anthropologists' Women's Mentoring Network
- 2009-2010** Planning Committee, Darwin Symposium, Seattle Pacific University
- 2008-2009** Committee Member, Seattle Pacific University IRB
- 2007-2009** Guest Editor, *PaleoAnthropology*, series on energetic studies in hominin evolution
- 2007** Symposium Organizer of 'Energetic Studies in Hominin Evolution', Paleoanthropology Society Meeting
- 2005-2006** Presenter for Expanding Your Horizons: Career Exploration in Science, Engineering, and Math for young women

LABORATORY and OSTEOLOGICAL EXPERIENCE

- VO₂ data collection, lab and portable systems
- Telemetry-based body temperature systems
- Kinematics data collection with 2-D and 3-D motion analysis systems
- Electromyography
- Dental thin sectioning
- Polarizing microscopy
- Identification and classification of human and ungulate remains from North America, Europe, and Africa

STUDY of MUSEUM and DEPARTMENTAL COLLECTIONS

National Institute of Archaeological Sciences and Heritage (INSAP), Rabat, Morocco

Natural History Museum, London, England

Gibraltar Museum, Gibraltar, Gibraltar

Museum of Archaeology and Anthropology, Cambridge, England

Department of Archaeology, University of Cambridge, England

Department of Anthropology, University of Washington

Department of Anthropology, University of Wisconsin-Madison