

# PAUL LOVELL HOOPER

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## EDUCATION

**University of New Mexico**, Albuquerque, NM

Ph.D. with distinction, Department of Anthropology, Ph.D. minor in Integrative Biology, 2011

M.S. with distinction, Department of Anthropology, 2008

**Princeton University**, Princeton, NJ

A.B. *magna cum laude*, Department of Near Eastern Studies, 2003

## EMPLOYMENT

**Santa Fe Institute**, Santa Fe, NM

Omidyar Post-doctoral Fellow, 2012—

**University of New Mexico**, Albuquerque, NM

Post-doctoral Research Scholar, Department of Anthropology, 2011-2012

## PEER-REVIEWED PUBLICATIONS

- Michael Gurven, Hillard S. Kaplan, Jonathan Stieglitz & Paul L. Hooper "From the womb to the tomb: The role of transfers in shaping the evolved human life history." Submitted to *Experimental Journal of Gerontology*.
- Timothy A. Kohler, Denton Cockburn, Paul L. Hooper, Kyle Bocinsky, & Ziad Koubi "The coevolution of group size and leadership: An agent-based public goods model for prehispanic Pueblo societies." In press at *Advances in Complex Systems*. (Also released as a Santa Fe Institute working paper, June 2011.)
- Paul L. Hooper, Hillard S. Kaplan & James L. Boone (2010) "A theory of leadership in human cooperative groups." *Journal of Theoretical Biology* 265(4), 633-646.
- Hillard Kaplan, Michael Gurven, Jeffrey Winking, Paul L. Hooper & Jonathan Stieglitz (2010) "Learning, menopause, and the human adaptive complex." *Annals of the New York Academy of Sciences* 1204, 30-42.
- Philip L. Hooper, Paul L. Hooper, Michael Tytell & László Vigh. (2010) "Xenohormesis: Health benefits from an eon of plant stress response evolution." *Cell Stress and Chaperones*, 15(6), 761-771.
- Michael Gurven, Monique Borgerhoff Mulder, Paul L. Hooper, Hillard Kaplan, Robert Quinlan, Rebecca Sear, Eric Schniter, Christopher von Rueden, Samuel Bowles, Tom Hertz & Adrian Bell (2010) "Domestication alone does not lead to inequality: Intergenerational wealth transmission among horticulturalists." *Current Anthropology* 51(1), 49-64.
- Monique Borgerhoff Mulder, Samuel Bowles, Tom Hertz, Adrian Bell, Jan Beise, Greg Clark, Ila Fazzio, Michael Gurven, Kim Hill, Paul L. Hooper, William Irons, Hillard Kaplan, Donna Leonetti, Bobbi Low, Frank Marlowe, Suresh Naidu, David Nolin, Patrizio Piraino, Rob Quinlan, Rebecca Sear, Mary Shenk, Eric Alden Smith & Polly Wiessner (2009) "Intergenerational wealth transmission and the dynamics of inequality in small-scale societies." *Science* 326(5953), 682-688.
- Hillard S. Kaplan, Paul L. Hooper & Michael Gurven (2009) "The evolutionary and ecological roots of human social organization." *Philosophical Transactions of the Royal Society B*. 365(1533) 3289-3299.
- Philip L. Hooper & Paul L. Hooper (2009) "Inflammation, heat shock proteins, and type 2 diabetes." *Cell Stress and Chaperones*. 14(2): 113-115.
- Paul L. Hooper & Geoffrey F. Miller (2008) "Mutual mate choice can drive costly signaling even under perfect monogamy." *Adaptive Behavior*. 16(1): 53-70.

## MANUSCRIPTS

- Paul L. Hooper, Hillard S. Kaplan & Michael Gurven "Inclusive fitness and reciprocity explain transfers between and within generations in a traditional human society." In preparation for *PNAS*.
- Hillard S. Kaplan, Paul L. Hooper, Michael Gurven & Jonathan Stieglitz "The causal relationship between fertility and infant mortality: Prospective analysis of a population in transition." In preparation for *Population and Development Review*.

## DISSERTATION

- "The structure of energy production and redistribution among Tsimane' forager-horticulturalists." Ph.D. Dissertation, Department of Anthropology, University of New Mexico, 2011. (Committee: Hillard S. Kaplan, Jane B. Lancaster, James L. Boone, Michael Gurven, James H. Brown).

## OTHER PUBLICATIONS

- Paul L. Hooper & Jonathan Stieglitz (2011) "Tsimane Health and Life History Project." *UNM Anthropology Newsletter*, Winter 2011.
- Paul L. Hooper (2010) "Field notes" *UNM Anthropology Newsletter*, Spring 2010.
- Paul L. Hooper (2007) "HHMI Interfaces Scholars at UNM PIBBS." *PIBBS Notes*. 1(1): 3.
- Simon Angus, Andrew Bell, Paul L. Hooper, Elizabeth Mullane, & Rafal Raciborski (2007) "A new approach to modeling social institutions using artificial neural networks." *Collected Papers of the Santa Fe Institute Complex Systems Summer School, 2007*. Santa Fe Institute.
- Paul L. Hooper, M. Gurven & H. S. Kaplan (2006) "Evolutionary Anthropology Society: The Tsimane' Life History Project." *Anthropology News*. 47(9): 52-53.
- Paul L. Hooper (2003) "Forced population transfers in early Ottoman imperial strategy: A comparative approach." Department of Near Eastern Studies Thesis, Princeton University.

## PRESENTATIONS AND INVITED LECTURES

- Paul L. Hooper "Approaches to social complexity from Human Behavioral Ecology." NIMBioS Investigative Workshop *Towards a Formal Theory for the Evolution of Human Social Complexity*. February 6-8, 2012.
- Paul L. Hooper "The forces that connect us: Evolutionary theory and Anthropological data." Omidyar candidate presentation, Santa Fe Institute. January 25, 2012.
- Michael Gurven, Hillard S. Kaplan, Jonathan Stieglitz & Paul L. Hooper "From the womb to the tomb: The role of transfers in shaping the evolved human life history." Workshop: *Evolutionary Ecology of Lifespan*, Napa. September 12, 2011.
- Hillard S. Kaplan, Michael Gurven, Paul L. Hooper, & Jonathan Stieglitz "The causal relationship between fertility and infant mortality: Prospective analyses of a population in transition." International Workshop: *Populations in the Human Sciences: Concepts, Models, and Evidence*, Oxford University. September 9, 2011.
- Paul L. Hooper "Modeling the evolution of the acceptance of top-down control in a collective action game using evolutionary game theory." UNM Computer Science Seminar. March 11, 2011.
- Paul L. Hooper "The structure of Tsimane' food sharing networks." Radcliffe Institute for Advanced Study Exploratory Seminar: *Social Network Analysis across Small-scale Societies*, Harvard University. February 26, 2011.
- Paul L. Hooper "Leadership: A double-edged sword." UNM Department of Anthropology Brown Bag Series. December 10, 2010.
- Paul L. Hooper "Models for understanding human leadership." Invited lecture, IGERT Program in Evolutionary Modeling Seminar Series, Washington State University, Pullman. September 30, 2010.
- Hillard S. Kaplan, Paul L. Hooper, & Eric Schniter. "Ecology, demography, and social organization: How strategic interactions unfold over historical time." *Author meets critics: The depopulation of Hispanic America after the conquest: Old and new interpretations..* Population Association of America 2010 Annual Meeting, Dallas. April 16, 2010.

- Paul L. Hooper, Hillard S. Kaplan, Jeffrey Winking, & Michael Gurven. “Do parents work harder when there are more mouths to feed? Or: Sovietizing Evolutionary Economics.” AGSU Graduate Research Symposium, UNM. March 27, 2010.
- Hillard S. Kaplan, Michael Gurven, Jeffrey Winking, Jonathan Stieglitz, Paul L. Hooper & Katherine Hinde. “The co-evolution of the aging process, lifespan, and intergenerational transfers.” 26<sup>th</sup> International Population Conference, Marrakech. September 28, 2009.
- Hillard S. Kaplan, Michael Gurven, Jeffrey Winking, Paul L. Hooper & Jonathan Stieglitz “Learning, menopause, and the human adaptive complex.” NY Academy of Sciences Workshop: *Reproductive Aging*. June 5, 2009.
- Paul L. Hooper. “The ecology of human political organization.” Invited lecture, Program in Interdisciplinary Biological and Biomedical Sciences, UNM. April 8, 2009.
- Hillard S. Kaplan, Paul L. Hooper & Jane B. Lancaster. “The evolutionary and ecological roots of human social organization.” *Darwin’s Legacy: A Symposium in Honor of Charles Darwin’s 200<sup>th</sup> Birthday*. UNM. February 11, 2009.
- Hillard S. Kaplan & Paul L. Hooper “The evolutionary and ecological roots of human social organization.” Royal Society Scientific Discussion Meeting: *The Evolution of Society*, London. January 20, 2009.
- Geoffrey F. Miller & Paul L. Hooper “Mutual mate choice can drive the evolution of costly fitness indicators in both sexes, even under perfect monogamy, as long as mutations keep arising.” Behavior Genetics Association Annual Meeting, Louisville, KY. June 25-28, 2008.
- Paul L. Hooper “Why are primate life histories strange?” AGSU Graduate Research Symposium, UNM. April 19, 2008.
- Paul L. Hooper “The effect of braininess on human and primate life histories.” American Association for the Advancement of Science Annual Multidisciplinary Meeting, *Human Macroecology Symposium*, Albuquerque, NM. April 11, 2008.
- James L. Boone & Paul L. Hooper “Leadership, cooperative networks, and the origins of inequality.” Society for American Archaeology Annual Meeting. Vancouver, BC. March 29, 2008.
- Paul L. Hooper “A model of leadership in group production.” Department of Economics Seminar Series, UNM. November 3, 2006.
- Paul L. Hooper “Cooperation, leadership, and the development of social hierarchies.” AGSU Graduate Research Symposium, UNM. March 31, 2006.
- Philip L. Hooper & Paul L. Hooper “The role of heat shock proteins in diabetes, aging, and longevity.” Human Evolutionary Behavioral Sciences Lecture, UNM. March 10, 2006.
- Hillard S. Kaplan & Paul L. Hooper “The conditions favoring individualistic, egalitarian and leaedered economies.” Workshop: *The economics and archaeology of the neolithic transition to agriculture and the implications for inequality*, Simon Fraser University, BC. February 24-25, 2006.
- Hillard S. Kaplan & Paul L. Hooper “The conditions favoring individualistic, egalitarian and managed economies.” Workshop: *The evolution of inequality: The dynamics of segmentation, stratification, and unequal reward*, Santa Fe Institute. February 19, 2006.
- Paul L. Hooper “Social negotiation and the cultural evolution of social norms.” AGSU Graduate Research Symposium, UNM. March 25, 2005.

## POSTERS

- Paul L. Hooper, Hillard S. Kaplan, Jeffrey Winking & Michael Gurven “Life history effects in the formation of traditional food sharing networks: Theory and data from ‘Tsimane’ forager-horticulturalists.” American Anthropological Association Annual Conference. New Orleans. November 18, 2010.
- Christopher von Rueden, Paul L. Hooper, and Daniel Cummings “The effects of inter-male cooperation and conflict networks on the fertility of ‘Tsimane’ men.” American Anthropological Association Annual Conference. New Orleans. November 18, 2010.

- Paul L. Hooper, Hillard S. Kaplan, Jeffrey Winking & Michael Gurven “Energy economics of the traditional human extended family: Theory and data from ‘Tsimane’ forager-horticulturalists.” Human Behavior and Evolution Society Annual Conference. University of Oregon. June 17, 2010.
- Christopher von Rueden & Paul L. Hooper “Patterns of male dyadic conflict with respect to kinship, cooperation, social status, and fertility in a small-scale human society.” *The Evolution of Human Aggression: Lessons for Today’s Conflicts*. University of Utah. February 25-27, 2009.
- Paul L. Hooper, Hillard S. Kaplan, & James L. Boone “An Ecological Theory of Human Leadership.” AGSU Graduate Research Symposium, UNM. February 18, 2009.
- Paul L. Hooper, Hillard S. Kaplan, & James L. Boone “An Ecological Theory of Human Leadership.” *Darwin’s Legacy: A Symposium in Honor of Charles Darwin’s 200<sup>th</sup> Birthday*. UNM. February 11, 2009.
- Paul L. Hooper “Why do humans senesce so slowly?” Howard Hughes Medical Institute (HHMI) Interfaces Scholars Meeting, Maryland. September 17-18, 2008.
- Philip. L. Hooper & Paul L. Hooper “Hans Selye’s ‘disease of adaptation’—type 2 diabetes mellitus—a breakdown in the stress response.” 2<sup>nd</sup> World Conference on Stress, Budapest, Hungary. August, 2007.

## TEACHING

- Unit Instructor. BIOL 520 (also ANTH 620, CS 520, ECE 620, STAT 520): "Topics in Interdisciplinary Biology and Biomedical Sciences." Four-week unit: Human Life History Evolution. UNM, Fall 2011.
- Instructor. ANTH 160: “The Human Life Course.” UNM, Spring 2011, Spring 2012.
- Instructor, with George Bezerra (Computer Science) and Wenyun Zuo (Biology). ANTH 402/502 (also BIOL 402/502, CS 402/502, STAT 402/502, MATH 402/502): “Networks: An introduction to network theory and its applications in social, biological, and technological systems.” UNM, Spring 2010.
- Teaching Assistant. ANTH 160: “The Human Life Course.” UNM, Fall 2005, Spring 2006.
- Instructor. Undergraduate English. Xinjiang University, Ürümqi, China, Spring 2004.

## GRADUATE FELLOWSHIPS

- Dean’s Dissertation Year Fellowship, UNM, 2009-2010.
- Howard Hughes Medical Institute (HHMI) Interfaces Scholar in the Program in Interdisciplinary Biological and Biomedical Sciences (PIBBS), UNM. 2006-2007, 2007-2008, Spring 2010.
- Research Assistantship, Tsimane’ Health and Life History Project, UNM. Spring 2008, Spring 2009, Fall 2009, Fall 2010, Spring 2011.
- Lewis R. Binford Human Evolutionary Ecology Graduate Fellow, UNM. 2005-2006.

## HONORS AND AWARDS

- Distinction, Doctoral Comprehensive Exam, Department of Anthropology, UNM, February 16, 2009.
- Latin American and Iberian Institute Field Research Grant (Bolivia), UNM. 2006.
- New Mexico Scholars Award, UNM. 2005-2006.
- Bayard and Cleveland Dodge Memorial Prize for Best Senior Thesis, Department of Near Eastern Studies, Princeton University. June 2003.
- American Research Institute in Turkey Undergraduate Fellowship, Boğaziçi University Program in Language and Culture. 2002.
- Redhouse Prize for Best Progress in the Turkish Language, American Association of Teachers of Turkic Languages. 2001.
- Princeton University International Study Grant (Istanbul, Turkey). 2000.

## OTHER ACADEMIC ACTIVITIES

- Ad hoc reviewer for *Proceedings of the Royal Society B*, *Journal of Theoretical Biology*, *American Journal of Physical Anthropology*, *Human Nature*, *Journal of Social, Evolutionary, and Cultural Psychology*, and *BMC Ecology*.
- Santa Fe Institute Complex Systems Summer School, Santa Fe. June, 2007.
- Lecture coordinator for the Human Evolutionary Behavioral Sciences (HEBS) network at the UNM. 2005-2006.

- Research assistant to Michael Cook, Professor of Near Eastern Studies, Princeton University. 2003.
- Lecture coordinator for the Ertegün Foundation for Near Eastern Studies and the Research Program in International Security, Princeton University. 2002-2003.

## **LANGUAGES**

Spanish, Tsimane', Turkish; working knowledge of Farsi, Uzbek/Uighur, and Arabic.

## **FIELDWORK AND INTERNATIONAL STUDY**

- Fieldwork with Tsimane' of lowland Bolivia, Beni Department. May-July, 2006; January-June, 2007; July-August, 2008; September-October, 2009, May-June 2012 (upcoming).
- Uighur language coursework, Xinjiang University, Ürümqi, China. 2004.
- Persian language coursework, the University of Utah. 2003.
- Advanced Turkish language, Boğaziçi University Program in Language and Culture, Istanbul. 2002.
- McGhee Center for Eastern Mediterranean Studies, Georgetown University, Alanya, Turkey. 2001.
- Intensive intermediate Turkish at TÖMER Language Institute, Ankara University, Istanbul. 2000.

## **ADDITIONAL WORK EXPERIENCE**

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**Cheetah Advanced Technologies**, Fort Collins, Colorado.

*Computer Programmer*, Research and Development. 1998-2000.

- Use of Microsoft Visual Basic and SQL languages, Microsoft Access, Excel, and Crystal Reports.
- Software design, development, and implementation.