

# Bret Alexander Beheim

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## Employment

2016-pres. Senior Researcher, Max Planck Institute for Evolutionary Anthropology  
2012-2016 Post-doctoral fellow, Department of Anthropology, University of New Mexico

## Education

2012 Ph.D. Ecology, University of California, Davis, California  
2006 M.A. Social Sciences, University of Chicago, Illinois  
2004 B.A. (*with honors*) Anthropology/History. UC Santa Barbara, California

## Research

### *Publications in Print*

1. Stieglitz, J., Beheim, B.A., Trumble, B.C, Madiemenos, F.C., Kaplan, H. & Gurven, M. Low Mineral Density of a Weight-Bearing Bone Among Adult Women in a High Fertility Population. *American Journal of Physical Anthropology*
2. Beheim, B. A., Thigpen, C. & McElreath, R. (2014) Strategic Social Learning and the Population Dynamics of Human Behavior. *Evolution and Human Behavior*
3. Beheim, B. A. & Baldini, R. (2012) Evolutionary Decomposition and the Mechanisms of Cultural Change. *Cliodynamics*
4. Beheim, B.A. & Bell, A.V. (2011) Inheritance, ecology and the evolution of the canoes of east Oceania. *Proc. R. Soc. B*
5. Borgerhoff Mulder, M. & Beheim, B. A. (2011) Understanding the nature of wealth and its effects on human fitness. *Phil. Trans. R. Soc. B* 366: 344-35

### *Publications in Preparation*

- Blackwell, A.D., Tamayo, M., Beheim, B.A., Trumbler, B.C., Stieglitz, J., Hooper, P., Martin, M., Kaplan, H. & Gurven, M. Helminth infection is associated with fecundity and age of first pregnancy in a natural fertility human population TARGET: *Science* (in press)
- Jaeggi, A.V., Hooper, P., Beheim, B.A., Kaplan, H. & Gurven, M. Supply and demand explain reciprocal exchange of multiple commodities and individual differences in cooperation in a small-scale subsistence society TARGET: *Proceedings of the National Academy of Sciences*
- Rowan, C., Achrekar, A., Beheim, B.A., Stieglitz, J., Trumble, B., Kaplan, H., Gurven, M. & Tolstrup, K. Atrial Fibrillation is Rare in a Contemporary, Preindustrial Non-Western, Non-Industrialized Population with High Inflammation and Enlarged Left Atria TARGET: *The Lancet*

### *Grants, Fellowships, Awards*

- 2015 · “The Human Life Course and the Biodemography of Aging”, Co-Investigator, National Institutes of Health / National Institute on Aging \$590,659
- 2014 · Administrative Supplement to “The Human Life Course and the Biodemography of Aging”, Co-Investigator National Institutes of Health / National Institute on Aging \$15,000
- “Surviving the Flood: Vulnerability, Risk Management, and Resilience among Tsimane Forager-Farmers of Bolivia”, Co-Investigator, National Science Foundation \$126,000
- 2009 · Graduate Fellowship Block Grant, The University of California \$10,800
- 2007 · Graduate Scholars Fellowship in Ecology, The University of California \$34,022
- 2004 · Phi Beta Kappa Honors Society

### *Paper Presentations*

- 2015 · Beheim, B.A., Ross, C., Thigpen, C., McElreath, R. Cultural Evolution in Games of Chess and Go. American Anthropological Association
- Rowan, C., Sangodkar, S., Achrekar, A., Tolstrup, K., Beheim, B.A., Stieglitz, J., Trumble, B., Gurven, M., Kaplan, & H. Left Ventricular Systolic and Diastolic Dysfunction is an Uncommon Finding in a Pre-Industrial Society with High Inflammation and Low Atherosclerotic Risk Factors. American Heart Association
- Blackwell, A.D., Tamayo, M., Beheim, B.A., Trumble, B.C., Stieglitz, J., Hooper, P., Kaplan, H. & Gurven, M. Different parasites, different human life histories: Roundworm increases human fecundity and leads to earlier reproduction, while hookworm entails costs to reproduction. Human Behavior and Evolution Society
- 2014 · Beheim, B.A., Gurven, M. & Kaplan, H. What evolutionary processes drive cultural change? Evolutionary Demography Society
- Gurven, M., Costa, M., Eid Rodriguez, D., Stieglitz, J., Beheim, B., Trumble, B., Kaplan, H. Costs of reproduction and maternal depletion in a high mortality and fertility population. Population Association of America
- Trumble, B.C, Cummings, D., Beheim, B.A., Stieglitz, J., Yetish, G. Pontzer, H., Kaplan, H., & Gurven, M. Energetic costs of testosterone: higher testosterone is associated with greater lean muscle mass and total energetic expenditure among Tsimane forager-horticulturalists. American Association of Physical Anthropologists
- Kaplan, H., Gurven, M., Cortez, E., Eid, D., Beheim, B.A., Stieglitz, J., Rowan, C., Tolstrup, K., & Achrekar, A. Slow cardiovascular aging and rare infarcts among Tsimane forager-horticulturalists. American Association of Physical Anthropologists
- Thompson, M.E, Beheim, B.A., Blackwell, A.D., Stieglitz, J., Trumble, B.C., Gurven, M. & Kaplan, H. Immunosenescence in Tsimane forager-horticulturalists. American Association of Physical Anthropologists

- Beheim, B.A., Thigpen, C., & McElreath, R. Evolutionary dynamics in the Game of Go. Institute for Pure and Applied Mathematics, UCLA
- 2009 · Beheim, B.A., Bell, A.V. Inheritance and Ecology: Canoe Evolution in Fiji and Polynesia. 3UC Evolutionary Anthropology Conference
- 2008 · Beheim, B.A. Japan's Cultural Inoculation: The Radiation and Retreat of Firearms and Christianity. Human Behavior and Evolution Society

## Teaching

### *Primary Instructor*

1. *The Human Life Course* (ANTH 160), taught 2013, 2014, 2015
2. *Human Behavioral Ecology* (ANTH 360), taught 2014
3. *Research Computing in Evolutionary Anthropology* (ANTH 560), taught 2014
4. *Evolution and Human Nature* (ANT 50), taught 2011
5. *Applied Research Methods* (ESP 178), taught 2011, 2012
6. *Cultural Ecology* (ANT 102), taught 2010

### *Teaching Assistant*

1. *Ecology and Evolution* (BIS 2B), taught 2010, 2011, 2012
2. *Physical Anthropology* (ANT 1), taught 2011
3. *Ecology and Politics* (ANT 131), taught 2009
4. *Current Issues in the Environment* (ESP 10), taught 2009

## Service to the Profession

### *Public White Papers*

- Lubell, M., Beheim, B.A., Hillis, V. & Handy, S. (2009) Achieving Sustainability in California's Central Valley. UC Davis Sustainable Transportation Center
- Beheim, B.A. & Reis, M. "A Theory of Social Formalism: The Four Horsemen and the New Deal." *Law and Society Review at the University of California, Santa Barbara II* (2003): 85-94.

### *Symposium & Seminar Participation*

- 2015: Beheim, B.A. "Estimating Heritability of Reaction Norms" Dynamics of Wealth Inequality and Family Structure, Santa Fe Institute
- 2012 Beheim, B.A. "Strategic Social Learning and Evolutionary Arms Races in the Game of Go" Invited talk, Santa Fe Institute, Santa Fe, New Mexico
- 2012 Beheim, B.A. "Inferring General Mechanisms of Cultural Evolution in Observational Settings" Dissertation Exit Seminar, UC Davis, Davis, California
- 2012 Beheim, B.A. "Evolutionary Decomposition and the Dynamics of Inequality". Santa Fe Institute, Santa Fe, New Mexico
- 2011 Beheim, B.A. Developing Measures of Cultural Variation and Dynamics in Hokkaido, Japan. Radcliffe Institute, Harvard University, Cambridge, Massachusetts

### *Reviewing*

- Journal of Theoretical Biology
- Advances in Complex Systems
- Human Nature
- Evolution and Human Behavior

### *Professional Memberships & Participation*

- American Anthropological Association
- Human Behavior and Evolution Society
- American Association of Physical Anthropologists
- Principle Organizer, California Undergraduate Anthropology Conference, May 2004
- Anthropology Student Union President (2003-2004)

### *Recent Collaborators*

Michael Gurven (UCSB) · Adrian Jaeggi (UCSB) · Aaron Blackwell (UCSB) · Anne Pisor (UCSB) · Sam Bowles (SFI) · Paul Smaldino (UCD) · Paul Hooper (Emory) · Ryan Baldini (Stanford) · Eric Schniter (Chapman) Jonathan Stieglitz (IAST) · Richard McElreath (UCD) · Ben Trumble (UCSB) · Siobhan Mattison (UNM) · Martin Muller (UNM) · Melissa Emery Thompson (UNM) · Chris Rowan (UNM Cardiology) · Monique Borgerhoff Mulder (UCD)

### **Language & Technical Proficiency**

- Japanese, intermediate proficiency
- Spanish, intermediate proficiency
- German, basic proficiency
- Markup Languages: TeX, HTML, Markdown
- Computing Environments: R, ArcGIS, Stata, MATLAB, UNIX shell
- Mathematics through Calculus and Linear Algebra

### **Avocations**

- Go (weiqui): 5 kyu on Kisedo Go Server
- Rowing: 850,000 meters rowed
- Colorado Plateau rock collecting
- Kendo (Japanese fencing)
- Retrocomputing: Raspberry Pi, 6502 Microprocessor Assembly Language
- Music: Saxophone, Piano