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### *Curriculum Vitae*

**Citizenship:** USA

#### **Research Interests**

Evolutionary medical anthropology; evolutionary psychology; evolutionary approaches to emotions, mental health, and addiction; life history approaches to child nutrition and development; biocultural perspectives on parental investment; applying models of primate sociality to humans; bioethnoarchaeology; the evolution of music.

#### **Education**

- 1999 Ph.D. in Anthropology, University of California, Santa Barbara. Dissertation title: *Two studies of differential parental investment: child nutrition and health in a Yanomamö village, and the evolutionary psychology of postpartum depression.*
- 1994 M.A. in Anthropology, University of California, Santa Barbara.
- 1985 B.A. in Mathematics with Physics emphasis, University of California, Berkeley.

#### **Current position**

2001-Present Postdoctoral Fellow, Institute for Theoretical Biology, Humboldt University, Berlin

#### **Publications**

##### Articles and book chapters:

Hagen EH, Barrett HC and Price ME (in press) The impact of family size on nutrition and growth in a Shuar village: Evidence for a quantity-quality tradeoff. *American Journal of Physical Anthropology.*

Hagen EH and Hammerstein P (in press) Evolutionary biology and the strategic view of ontogeny: Genetic strategies provide robustness and flexibility in the life course. *Research in Human Development.*

Hagen EH (in press) Controversies surrounding evolutionary psychology. In *The Evolutionary Psychology Handbook*, D. Buss, ed. Wiley.

Hagen EH, Price ME, and Tooby J (in press) A Preliminary Report on Darkness in El Dorado. In *Taking Sides* (3<sup>rd</sup> edition), Endicott KM and Welsch RL, eds. McGraw-Hill/Dushkin.

Hagen EH (2003) The bargaining model of depression. In *Genetic and Cultural Evolution of Cooperation*, pp. 95-123. P. Hammerstein, ed. MIT Press.

Hagen EH and Bryant GA (2003) Music and dance as a coalition signaling system. *Human Nature* 14:21-51.

Hagen EH (2002) Depression as bargaining: the case postpartum. *Evolution and Human Behavior*. 23:323-336.

Hagen EH, Hames R, Craig N, Lauer M, and Price ME (2001) Parental investment and offspring health in a Yanomamö village. *Journal of Biosocial Science*. 33:503-528.

Hagen EH (1999) The functions of postpartum depression. *Evolution and Human Behavior*. 20:325-359.

McElreath R, Clutton-Brock TH, Fehr E, Fessler DMT, Hagen EH, Hammerstein P, Kosfeld M, Milinski M, Silk J, Tooby J and Wilson MI (2003) The Role of Cognition and Emotion in Cooperation. In *Genetic and Cultural Evolution of Cooperation*, P. Hammerstein, ed.

Sell A, Hagen EH, Cosmides L and Tooby J (2003) Evolutionary theory: Implications for Cognitive Science. In *Encyclopedia of Cognitive Science* Nature Publishing Group, v. 2, pp. 47-53. Macmillan Publishers Ltd.

Sullivan RJ and Hagen EH (2002) Psychotropic substance-seeking: evolutionary pathology or adaptation? *Addiction*. 97:389-400.

Novak BM, Hagen EH, Hoff S, Viswanathan A (1994) Synthesis and Photochemistry of Sulfonium Ion Polymers-Arylated and Alkylated Poly(P-Phenylene Sulfide) Derivatives. *Macromolecules*. 27 (7):1985-1986.

#### Books & CD-ROM's:

Hagen EH, Irons W and Tooby J (forthcoming) *Yanomamö Wars, Anthropology Wars*. New York: Harcourt, Brace, Jovanovich.

Walker PL and Hagen EH (1998) *Human Evolution: A Multimedia Guide to the Fossil Record*. New York: W. W. Norton and Company, Inc.

#### Commentaries, letters and reviews

Hagen EH (in press) Postpartum depression and infant crying. *Behavioral and Brain Sciences*.

Hagen EH (in press) Special design's centuries of success. *Behavioral and Brain Sciences*.

Hagen EH and Thomson JA (in press) Social navigation hypothesis of depression revisited. *Journal of Affective Disorders*.

Hagen EH (2003) Comment on Genes and Cultures: What Creates Our Behavioral Phenome? P. Ehrlich and M. Feldman, *Current Anthropology* 44:96-97.

Hagen EH and Hess NC (2000) Sweet Savage Love: FA, BO, and SES in the EEA.  
*Behavioral and Brain Sciences*. 23:604-605.

Hess NC and Hagen EH (in press) Review of *Mean Genes*. *Politics and the Life Sciences*.

#### Articles under review

Hagen EH and Barrett HC (under review) Perinatal sadness among Shuar women: Support for an evolutionary theory of 'psychic pain'. *American Anthropologist*.

Hagen EH, Watson PJ, and Thomson JA (under review) Depression as an adaptation to obtain help from those with whom one is in conflict. *British Medical Journal*.

Hess NC and Hagen EH (under review) Sex differences in informational aggression: Psychological evidence from young adults. *Evolution and Human Behavior*.

Hess NC and Hagen EH (under review) Psychological adaptations for assessing gossip believability. *Human Nature*.

Hagen EH (ms done; to be submitted shortly) An evolutionary approach to delusions.

Hagen EH and Walker PL (ms done; to be submitted shortly) A topographic approach to microwear analysis.

#### Articles in prep

Hagen EH, Walker PL and Barrett HC (in prep) Dental development and social structure in a Shuar village: implications for bioarchaeology.

Hagen EH and Walker PL (in prep) Environmental stress, growth, and physical attractiveness: evidence for evolved health assessment capabilities.

Hagen EH and Hammerstein P (in prep) Cross-cultural evidence for an evolutionary game theory model of suicidality.

Hagen EH and Symons D (in prep) Adaptationism and the mind. In *The Evolution of Mind: Fundamental Questions and Controversies*, Gangestad S and Simpson J, eds. Guilford Press.

Hess NC and Hagen EH (in prep) Informational warfare: Applying the socioecological model of primate social organization to human females.

#### Online Software and Publications

Human Evolution: The fossil evidence in 3D

[www.anth.ucsb.edu/projects/human/](http://www.anth.ucsb.edu/projects/human/)

Descent. Software for computing coefficients of relatedness.

[itb.biologie.hu-berlin.de/~hagen/Descent/](http://itb.biologie.hu-berlin.de/~hagen/Descent/)

The Evolutionary Psychology FAQ

[www.anth.ucsb.edu/projects/human/evpsychfaq.html](http://www.anth.ucsb.edu/projects/human/evpsychfaq.html)

Human Dentition software

[www.anth.ucsb.edu/faculty/hagen/hds.html](http://www.anth.ucsb.edu/faculty/hagen/hds.html)

## Invited talks

- 2004 *Applying the socioecological ecological model of primate social organization to human females* (with Hess). Max Planck Institute for Evolutionary Anthropology, Leipzig.
- 2004 *Suicidality as signaling: Cross-cultural evidence from the HRAF. Conference on Embodied and Communicating Agents*. Institute for Cognitive Sciences and Technologies, Rome.
- 2004 *Evolutionary approaches to cognition*. Ghent University, Belgium.
- 2003 *The evolution of music*. Catholic University Leuven, Belgium.
- 2003 *The anthropology of war: Ethnographic and archaeological evidence*. Max Planck Institute for Human Development, Berlin.
- 2003 *Sex differences in competition and aggression*. Symposium on Robustness and Variation of Sexual Differentiation. Humboldt University, Berlin.
- 2003 *Computational approaches to kinship*. Max Planck Institute for Social Anthropology, Halle/Saale.
- 2003 *Controversies in evolutionary psychology*. Max Planck Institute for Human Development, Berlin.
- 2002 *Father status, family size, and intra-village variation in nutrition and growth among the Shuar*. Colloquium on Global Health and the Environment. University of Iowa.
- 2002 *The Darkness in El Dorado controversy and its implications for global health research*. Colloquium on Global Health and the Environment. University of Iowa.
- 2002 *What happens when cooperation fails?* Dahlem Conference on The Genetic and Cultural Evolution of Cooperation. Berlin, Germany.
- 2000 *Depression as bargaining*. Innovationskolleg theoretische Biologie. Berlin, Germany.
- 2000 *Postpartum depression: Illness or adaptation?* Postpartum Dysphoria and Depression Symposium. Reimers-Stiftung/Max-Planck Institute for Behavioral Physiology. Bad Homburg, Germany.
- 2000 *Depression as bargaining*. Behavior, Evolution and Culture Symposium. University of California, Los Angeles.
- 2000 *Depression and the evolution of cooperation*. German American Frontiers of Social and Behavioral Sciences, Second Annual Symposium. Social Science Research Council. Stone Mountain, Georgia.
- 2000 *Social constraints on reproductive decision-making and postpartum depression*. Program in Developmental and Evolutionary Psychology, and the Interdisciplinary Program in Human Development, Department of Psychology, UCSB.
- 1995 *Simulating 3D modeling with Limited Computational Resources*. Multimedia Developer's Conference. University of California, Santa Barbara.

## Conference presentations

- 2004 *Suicidality as a bargaining strategy*. Human Behavior and Evolution Society Annual Conference, Berlin.

- 2004 *Captain Robert FitzRoy's Darwinian Depression* (with Thomson, Watson, and Andrews). Human Behavior and Evolution Society Annual Conference, Berlin.
- 2004 *Evolved sex differences in aggression types: inclinations towards physical vs. reputational attacks* (with Hess). Human Behavior and Evolution Society Annual Conference, Berlin.
- 2004 *Megadontia and bipedalism: Did habitual bipedalism evolve in early hominids to reduce the energetic costs of increasing head weight?* American Association of Physical Anthropologists 73<sup>rd</sup> Annual Meeting. Tampa, Florida.
- 2003 *Applying the socioecological model of primate social organization to human females.* Göttinger Freilandtage conference on Cooperation in Primates and Humans: Mechanisms and Evolution. German Primate Center. (With Nicole Hess)
- 2002 *The impact of family size on nutrition and growth in a Shuar village: Evidence for a quantity-quality tradeoff.* American Association of Physical Anthropologists 71st annual meeting. Buffalo, New York.
- 2001 *Social correlates of health and nutrition in a Shuar village.* Human Behavior and Evolution Society Annual Conference, London, England.
- 2001 *Informational warfare: Female coalitions and gossip* (with NC Hess). Human Behavior and Evolution Society Annual Conference, London, England.
- 2000 *Social constraints on reproductive decision-making and postpartum depression.* Human Behavior and Evolution Society 12th Annual Conference. Amherst, Massachusetts. (Poster)
- 2000 *Maternal and child health in a Yanomamö village.* Session on maternal mortality in bio-archaeological perspective. American Association of Physical Anthropologists 69th annual meeting. San Antonio, Texas.
- 1999 *Parental investment and child health in a Yanomamö village.* Human Behavior and Evolution Society 11th Annual Conference. University of Utah, Salt Lake City.
- 1998 *Reproductive Decision-making and Postpartum Depression.* 97th Annual Meeting of the American Anthropological Association. Philadelphia, Pennsylvania.
- 1998 *The Functions of Postpartum Depression and the Implications for General Depression.* Human Behavior and Evolution Society 10th Annual Conference. University of California, Davis.
- 1996 *Postpartum depression as an adaptation to paternal and kin exploitation.* Human Behavior and Evolution Society 8th Annual Conference. Northwestern University, Illinois.
- 1995 *Delusional and Somatoform Disorders as Possible Examples of Intraspecific Mimicry in Humans.* Human Behavior and Evolution Society 7th Annual Conference. University of California, Santa Barbara.

1994 *Decoding Microwear: A Topographic Approach*. Department of Anthropology, University of California, Santa Barbara.

### **Fieldwork and research**

2001 Chinimpi, Ecuador (Shuar)  
1998, 1999 Cejal, Upper Orinoco, Venezuela (Yanomamö)  
1995 Neuropsychiatric Institute, University of California, Los Angeles (locked ward)  
1992-1996 Research Assistant, University of California, Santa Barbara, Anthropology Department (Forensic anthropology, mathematical modeling of skeletal morphology)

### **Teaching**

2001-Present Lecturer, Evolutionary approaches to cognition, Humboldt University, Berlin  
2003 Lecturer, International Max Planck Research School on The Life Span: Evolutionary and Developmental Dynamics (LIFE)  
2000 Instructor, Introduction to Biosocial Anthropology, Dept. Of Anthropology, UCSB  
2000 Instructor, Advanced Evolutionary Psychology, UCSB  
2000 Instructor, Law and Warfare, UCSB  
1999 Instructor, Introduction to Physical Anthropology, UCSB  
1993-1996 Head Teaching Assistant, University of California, Santa Barbara, Anthropology Department

### **Grants, fellowships and awards**

2004 NIH Director's Pioneer Award, semi-finalist (\$500,000/year for 5 years).  
2004-2007 EC Agents. Integrated Project European Commission 6<sup>th</sup> Framework Programme for Research, Technology and Demonstration. €249,000 (~ \$306,600).  
2002-2005 Symbiosis component of Robustness, modularity and evolutionary design of living systems. Sonderforschungsbereich 618 "Theoretische Biologie". Deutsch Forschungsgemeinschaft. €150,000 (~ \$184,700).  
1999 Best Poster Award. Human Behavior and Evolution Society, Salt Lake City (\$500).  
1998 Service/Spaulding Fellowship. University of California, Santa Barbara (\$3000 + fees).  
1997 Spaulding Fellowship. University of California, Santa Barbara (\$3000 + fees).  
1997 Aaron T. Beck Award, ASCAP Society (\$1000).  
1996 Elman Service Fellowship. University of California, Santa Barbara (\$3000).  
1995 New Investigator Award. Human Behavior and Evolution Society, Santa Barbara (\$300).  
1995 Doctoral Candidacy Fellowship. University of California, Santa Barbara.  
1993-1999 Graduate Fee Fellowship. University of California, Santa Barbara (fees paid).

### **Conference and symposium organization committees**

2001-2005 American Association of Physical Anthropologists Annual Meetings. Programmed and operated the online conference registration system and online abstract search system.  
2004 Program Committee, Human Behavior and Evolution Society Annual Meeting, Berlin, July. Reviewed abstracts and organized sessions; introduced keynote speaker.

- 2003 Symposium on Robustness and Variation of Sexual Differentiation. Humboldt University, Berlin, November. General duties, including inviting speakers, organizing conference schedule, and preparing conference venues.
- 1999 Host & Organizer for the visit of Jaime Turon, Alcalde del Alto Orinoco, Venezuela. Turon, the first elected indigenous representative of the Yanomamö, Ye'kwana, and other Native American Amazonian groups, spoke at UCSB, June.

### **Patent**

- 1991 Novak BM, Hagen EH and Viswanathan A. *Photogenerated conducting organic polymers* (patent number 5,376,502)

### **Professional service**

#### Medical aid

- 1999-2001 With colleagues, I worked with Direct Relief International to obtain \$35,000 in medical supplies to donate to Yanomamö and Ye'kwana villages during a 1999 trip to Venezuela, as well as substantial medical supplies and nutritional supplements for a large Shuar village in Ecuador in 2001.

#### Museum display

- 2004 Peabody Museum, Yale University: Human Evolution multimedia display.

#### Reviewer/commentator

Animal Behavior  
Behavioral and Brain Sciences  
Current Anthropology  
Evolution and Human Behavior  
Human Nature  
Journal of Theoretical Biology  
Oxford University Press  
Philosophical Psychology  
Politics and the Life Sciences

#### Chief Web site designer

American Association of Physical Anthropology ([www.physanth.org](http://www.physanth.org))  
AAPA Annual Conference registration system  
Global Health Project online training modules  
Center for Evolutionary Psychology ([www.psych.ucsb.edu/research/cep](http://www.psych.ucsb.edu/research/cep))

#### Other skills

Statistics and related software (e.g., R, SPSS), including Monte Carlo and bootstrapping techniques; computer and web programming (e.g., C, Python); social network analysis; digital image processing; forensic video analysis.

#### Articles and interviews on my research appearing in the mainstream press

- 2004 Interview with director of Other Side of Darkness, a film on depression sponsored by the Australian Film Commission.

- 2004 Radio interview on the Australian Broadcasting Corporation on the evolution of depression.
- 2003 We got rhythm; the mystery is how and why *New York Times* September 16.
- 2003 Subject to gossip *CBS News Morning Show*, May 14.
- 2002 Drug use linked to ancestors' habits *New Scientist* April 2.
- 2002 Ancestors 'used drugs to survive' *BBC News* March 30.
- 2002 Maternal instinct may be a killer *National Post* March 27.
- 2001 As the rumor mill turns: Women fear gossip more than men do, study shows *Health Scout News* July 16.
- 2001 Mommy undearnest *Slate* July 4.
- 2001 War of words *New Scientist* June 30.
- 2001 Postpartum misery tied to crash in hormone levels *Toledo Blade* June 28.
- 2001 The dark side of parenting *Hartford Advocate*.

## References

### Ph.D. committee

John Tooby, Professor  
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### Fieldwork advisor

Raymond Hames, Professor  
University of Nebraska-Lincoln  
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126 Bessey Hall  
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### Postdoctoral advisor

Peter Hammerstein, Professor  
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Research colleagues

Robert Boyd, Professor  
Department of Anthropology  
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Leda Cosmides, Professor  
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