

ELAINIE ALENKÆR MADSEN

- Nationality: Danish
- Date of birth: 19 December 1973

EDUCATION AND RELEVANT EMPLOYMENT

- 2010-present **Post-doctoral researcher**, Cognitive Science (Department of Philosophy) & Centre for Cognitive Semiotics, Lund University. 100% research.
Comparative studies of
- (ii) The Chameleon Effect as a facilitator of intra- and cross-species imitation: A study of imitation through imitation, play and emotional rapport
 - (ii) Contagious yawning in children, chimpanzees, dogs, wolves, lions, tigers and pumas
 - (iii) Children's and chimpanzees' understanding of communicative signs
- 2004-2010 **Ph.D. Psychology, University of St Andrews, UK**
Supervisors: Prof. Klaus Zuberbühler and Dr. Juan-Carlos Gómez
Part-time PhD funded by a teaching grant.
Title: Attention Following and Nonverbal Referential Communication in Bonobos (*Pan paniscus*), Chimpanzees (*Pan troglodytes*) and Orangutans (*Pongo pygmaeus*).
- 2002-2003 Researcher. Max Planck Institute for Evolutionary Anthropology. Leipzig, Germany
Projects: 'theory of mind' and paternity recognition in wild chimpanzees.
- 2000-2001 Researcher. UCL, Centre of Economic Learning and Social Evolution, UK
Cross-cultural research on kin selection in humans.
- 1999-2000 **M.Sc. Evolutionary Psychology**. Distinction. University of Liverpool, UK
Supervisor: Prof. Robin Dunbar
Thesis: A Meeting of Minds? The Potential for a Theory of Mind in Dolphins
- 1996-1999 **B.Sc. Psychology and Zoology**. Honours. 2.1. University of Nottingham, UK.
Thesis: Age and fertility related changes in fluctuating asymmetry in women.
- 1995-1996 Danish Högskoleexamen equivalent. Science courses to supplement art Högskoleexamen. Lyngby, Denmark. Psychology, biology, chemistry, mathematics.
- 1990-1993 Danish Gymnasium (Högskoleexamen equivalent) Art-side, Marie Kruse Skole, DK.
Thesis: Cultural universals and catharsis in literature. Distinction.
- 1981-1990 Folkeskole, Stenvadskolen, Farum, DK and Jakarta International School, Indonesia

TEACHING

- 2004-2009 Research methods and statistics, School of Psychology, University of St Andrews.
Student and supervisor feedback: Excellent.
- 2008 Senior-honours classes on animal communication, University of St Andrews
- 2006 Seminars on effective communication for medical students, University of St Andrews
- 1995 English (12-18 year olds) Tanjung Selor, Borneo, Indonesia

TUTORING

- 2007-2008 Advisor for 4th-year honours psychology research project, University of St Andrews

GRANTS SECURED

- 2013-2015 Vetenskabsrådet (The Swedish Research Council) for the project 'The Chameleon Effect as a facilitator of intra- and cross-species imitation' (5, 739 000 SEK)
- 2011-2012 Elisabeth Rausing's minnesfond for contagious yawning research with dogs (in Denmark) and wolves (in the U.S., 28 000 SEK)
- 2004-2009 University of St Andrews PhD teaching grant (560 000 SEK)
- 2008 Bursary award for attendance at International Primate Society Conference (2 100 SEK)
- 1999 Grant for dolphin theory of mind research (9 200 SEK), School of Biological Sciences, University of Liverpool

PUBLICATIONS

- Madsen EA, Persson T, Sayehli S, Lenninger S, Sonesson G. (*in press*) Chimpanzees show a developmental increase in susceptibility to contagious yawning: A test of the effect of ontogeny and emotional closeness. *PLoS One*.
- Zlatev J, Madsen EA, Lenninger S, Persson T, Sayehli S, van de Weijer J, Sonesson G (2013) Understanding communicative intentions and semiotic vehicles by children and chimpanzees. *Cognitive Development* 28(3) 312-329.
- Madsen EA, Persson T (2012) Contagious yawning in domestic dog puppies (*Canis lupus familiaris*): The effect of ontogeny and emotional closeness on low-level imitation in dogs. *Animal Cognition* 16(2): 133-140.
- Madsen EA (2010) Attention Following and Nonverbal Referential Communication in Bonobos (*Pan paniscus*), Chimpanzees (*Pan troglodytes*) and Orangutans (*Pongo pygmaeus*). PhD Thesis, University of St Andrews, UK.
- Madsen EA (2009) Bonobos. *Feedback*. Association for the Study of Animal Behaviour.
- Madsen EA, Tunney RJ, Fieldman G, Plotkin HC, Dunbar RIM, Richardson J-M, McFarland D (2007) Kinship and Altruism: A Cross-cultural Experimental Study. *British Journal of Psychology* 98(2): 339-359.
- Papers in prep:*
- Madsen EA (*in prep*). Contagious yawning in human socialised grey wolves (*Canis lupus lupus*): A test of the social domestication hypothesis and the effect of ontogeny and emotional closeness on low-level imitation in wolves.
- Madsen EA (*in prep*). A test of the effect of social group-living on the inclination to low level imitation: Contagious yawning in tigers (*Panthera tigris*), lions (*Panthera leo*) and cougars (*Felis concolor*).
- Madsen EA, Zuberbühler K, Gómez JC (*in prep*). A test of the social attention hypothesis: Chimpanzees (*Pan troglodytes*) accord & receive attention following according to social dominance.
- Madsen EA, Zuberbühler K, Gómez JC (*in prep*). Intra-specific showing & pointing behaviours in bonobos (*Pan paniscus*) and chimpanzees (*Pan troglodytes spp.*), but not orangutans (*Pongo pygmaeus*).
- Madsen EA, Tunney RJ, Fieldman G, Plotkin HC, Dunbar RIM, Richardson J-M, McFarland D (*in prep*). Proximate cues mediating altruistic kin investment: A cross-cultural experimental study.
- Madsen EA, Dunbar RIM, Call J, Feld H, Tschudin A (*in prep*). Mental state attribution in dolphins (*Tursiops truncatus*).

PUBLIC UNDERSTANDING OF SCIENCE

- 2009 Primate communication and social cognition. National Science week
- 2008 Presentation of the exhibit 'The primate roots of human language'. National Science Week

LANGUAGES

Danish and English (fluent); Swedish, Norwegian, German, and Spanish (conversational)

PROFESSIONAL AFFILIATIONS

Reviewer for the journal *Animal Cognition*, member of the Scottish Primate Research Group, Centre for Social Learning and Cognitive Evolution, Association for the Study of Animal Behaviour, The Primate Society of Great Britain