

Curriculum Vitae: Dr. Catherine Crockford



European
Research
Council

Current Position: *Group Leader & ERC awardee, Scientific Co-Director of the Tai Chimpanzee Project*, Ivory Coast, at Max Planck Institute for Evolutionary Anthropology, Primatology Dept.

Address: Max Planck Institute for Evolutionary Anthropology, Deutscher Platz 6, 04103 Leipzig, Germany.

Email: crockford@eva.mpg.de **Tel:** +49 (0)341 3550 220

Education

- 1/2005: **PhD in Psychology**, from Max Planck Institute for Evolutionary Anthropology (MPI EVA) and University of Leipzig. Grade: magna cum laude; supervisor: Prof. Christophe Boesch.
- 6/1991: **BSc Speech (Honours)**, Received 2:1, at University of Newcastle upon Tyne.

Positions Held

- 2012 – present: **Group Leader & ERC awardee** at MPI EVA, Primatology Dept, **Scientific Co-Director of the Tai Chimpanzee Project**, Ivory Coast.
- 2008 – 2012: **British Academy Fellow** at University of St. Andrews, with Prof. Klaus Zuberbühler.
- 2004 - 2007: **Postdoctoral position**, University of Pennsylvania, with Profs. Cheney and Seyfarth.
- 1998 - 2004: **Doctoral studies**, MPI EVA, Leipzig.
- 1993 - 1996: **Specialist speech and language therapist** in acquired adult disorders, St. Thomas' and Guy's Hospitals' Trust, London.
- 1991 - 1993: **Speech and language therapist**, Greenwich Healthcare Trust, London.

Fellowships, Grants and Awards

- 2016: European Research Council Starter Grant €1,500,000
- 2012: Young Investigator's Award, Society for Behavioral Neuroendocrinology, \$2,200
- 2009: British Academy Post-doctoral Fellowship, 3 years, £283,000.
- 2009: Wenner-Gren Post-doctoral Research Grant, \$21,000
- 2009: Leakey Foundation Post-doctoral Research Grant, \$15,000
- 2008: Named as an 'Outstanding Reviewer of the Year' for the Journal of Animal Behaviour
- 1998-2004: Received Max Planck Institute Stipendium for doctoral studies, €90,000
- 1990: Nuffield Foundation Bursary for aphasia research supervised by Prof. Ruth Lesser.
- 1991: Accredited the British Aphasiology Society Undergraduate Research Award

Associate editor: *Primate Biology; Journal of Language Evolution.*

Selected publications. For full publication list see:

(*joint first author; @joint senior author)

Crockford C. (2016) Aging: Lessons for Elderly People from Monkeys. *Current Biology*, **26**(13), R532-R534.

Wittig, R. M., **Crockford, C***, Weltring, A., Langergraber, K. E., Deschner, T., & Zuberbühler, K. (2016) Social support reduces stress hormone levels in wild chimpanzees across stressful events and everyday affiliations. *Nature Communications* **7**.

Crockford C, Wittig RM, Zuberbuhler K. Chimpanzees inform receivers depending on receiver knowledge and not receiver behaviour. *Proceedings of the Royal Society Open Science*. In review.

- Ziegler T, **Crockford C**. Sociality in non-human primates: field based evidence for neuroendocrine control. *Horm. Behav.* Invited paper. In review.
- Crockford C**, Wittig, RM, Zuberbühler. (2015) An intentional vocalization draws others' attention: A playback experiment with wild chimpanzees. *Animal Cognition*, **18.3**: 581-591.
- Crockford C**. (2015). Nonhuman primate communication, pragmatics, and the origins of language. *Current Anthropology*, **56**: 56-80. Comment.
- Cheney, DL, **Crockford, C**, Engh, AL, Wittig, RM, Seyfarth, RM. (2015). The costs of parental and mating effort for male baboons. *Behavioral ecology and sociobiology*, **69**: 303-312.
- Cronin, KA, Pieper, B, van Leeuwen, EJ, **Crockford, C**, Haun, DB. (2015). Cooperating to compete: Evaluating behavioral coordination in response to simulated territorial intrusion in chimpanzees (Pan Troglodytes). *Am J Primatology*, **77**(S1): 64. Abstract.
- Crockford C**, Deschner T, Ziegler T, Wittig RM. (2014). Endogenous peripheral oxytocin measures can give insight into the dynamics of social relationships: a review. *Frontiers Behav. Neuroscience*, **8**:68.
- Wittig RM, **Crockford C***, Ziegler, T, Deschner T, Zuberbühler K. (2014). Food sharing is linked to urinary oxytocin levels and bonding in related and unrelated wild chimpanzees. *Proc Roy Soc Ser B*, **281**(1778): 20133096.
- Wittig RM, **Crockford C***, Langergraber K, Zuberbühler K. (2014). Triadic social interactions operate across time: a field experiment with wild chimpanzees. *Proc Roy Soc Ser B*, **281**(1779):20133155.
- Langergraber KE, Rowney, C, Schubert G, **Crockford C**, Hobaiter C, Wittig, R, ... & Vigilant L. (2014). How old are chimpanzee communities? Time to the most recent common ancestor of the Y-chromosome in highly patrilineal societies. *Journal of Human Evolution*.
- Langergraber KE, Rowney C, **Crockford C**, Wittig R, Zuberbühler K & Vigilant L. (2014). Genetic analyses suggest no immigration of adult females and their offspring into the Sonso community of chimpanzees in the Budongo Forest Reserve, Uganda. *Am J primatology*.
- Crockford C**, Wittig RM, Langergraber K, Ziegler T, Zuberbühler K, Deschner T (2013) Urinary oxytocin and social bonding in related and unrelated chimpanzees. *Proc Roy Soc Ser B* 2013 **280**(1755):20122765.
- Crockford C**, Wittig RM, Mundry R, Zuberbühler K. (2012) Wild chimpanzees inform ignorant group members of danger. *Current Biology*, **22**:142-146. (Cover Article).
- Langergraber, K.E., Prüfer, K. Rowney, C., Boesch, C., **Crockford, C.**, et al. (2012). Generation times in wild chimpanzees and gorillas suggest earlier divergence times in great ape and human evolution. *Proc Nat Acad Sci*. **109**:15716-15721.
- Silk JB, Beehner JC, Bergman TJ, **Crockford C**, Engh AL, Moscovice LR, Wittig RM, Seyfarth RM & Cheney DL. (2010). Strong and consistent social bonds enhance the longevity of female baboons. *Current Biology* **20**:1359-1361. (Cover Article).
- Silk JB, Beehner JC, Berman TJ, **Crockford C**, Engh AL, Moscovice LR, Wittig RM, Seyfarth RM & Cheney DL. (2010). Female chacma baboons form strong, equitable and enduring social bonds. *Behavioral Ecology and Sociobiology* **64**:1733-1747.
- Moscovice LR, Di Fiore A, **Crockford C**, Kitchen DM, Wittig RM, Seyfarth RM & Cheney DL. 2010. Hedging their bets? Male and female chacma baboons form friendships based on likelihood of paternity. *Animal Behaviour* **75**:1007-1015.
- Silk JB, Beehner JC, Berman TJ, **Crockford C**, Engh AL, Moscovice LR, Wittig RM, Seyfarth RM & Cheney DL. 2009. The benefits of social capital: Close social bonds among female baboons enhance offspring survival. *Proc Roy Soc Ser B* **276**:3099-3104.
- Wittig RM, **Crockford C***, Lehmann J, Whitten PL, Seyfarth RM & Cheney DL. 2008. Focused grooming networks and stress alleviation in wild female baboons. *Hormones & Behavior* **54**:170-177.
- Crockford C**, Wittig RM, Whitten PL, Seyfarth RM & Cheney DL. 2008. Social correlates and coping mechanisms of stress in baboons (*Papio hamadryas ursinus*). *Hormones & Behavior* **53**:254-265.



- Boesch C, **Crockford C**, Herbinger I, Wittig R, Moebius Y & Normand E. 2008. Intergroup conflicts among chimpanzees in the Tai National Park: Lethal violence and the female perspective. *Am J Primatol* **70**:519-532.
- Crockford C**, Wittig, RM, Seyfarth RM & Cheney DL. 2007. Baboons eavesdrop to deduce mating opportunities. *Animal Behaviour* **73**:885-890. doi:10.1016/j.anbehav.2006.10.016
- Wittig RM, **Crockford C***, Seyfarth RM & Cheney DL. 2007. Vocal alliances in chacma baboons (*Papio hamadryas ursinus*). *Behavioural Ecology and Sociobiology* **61**:899-909. doi: 10.1007/s00265-006-0319-5
- Wittig RM, **Crockford C***, Wikberg E, Seyfarth RM & Cheney DL. 2007. Kin-mediated reconciliation substitutes for direct reconciliation in female baboons. *Proc Roy Soc Ser B* **274**:1109-1115.
- Crockford C** & Boesch C. 2005. Call combinations in wild chimpanzees. *Behaviour* **142**:397-421. doi:10.1163/1568539054012047
- Crockford C**, Herbinger I, Vigilant L. & Boesch C. 2004. Wild chimpanzees have group specific calls: a case for vocal learning? *Ethology* **110**:221-243. doi:10.1111/j.1439-0310.2004.00968.x
- Crockford C** & Boesch C. 2003. Context specific calls in wild chimpanzees, *Pan troglodytes verus*: analysis of barks. *Animal Behaviour* **66**:115-125. doi:10.1006/anbe.2003.2166
- Crockford C** & Lesser R. 1992. Assessing functional communication in aphasia: clinical utility and time demands of three methods. *European Journal of Communication Disorders* **29**:165-182.

Book Chapters and Monographs

- Kitchen DM, Cheney DL, Seyfarth RM, Beehner JC, Bergman TJ, **Crockford C**, Engh AL, Fischer J & Wittig RM. 2009. Costs and consequences of male aggression directed at female chacma baboons. In: *Male Coercion in Primates*, (Muller M & Wrangham R, eds), Cambridge, MA: Harvard University Press.
- Crockford C**. 2004. *Vocal communication in wild chimpanzees: similarities with and differences to humans*. University of Leipzig, Germany.

Invited Talks

- 2016: Invited talk for the Linguae Group, **ENS**, Paris. Invited by Prof Philippe Schlenker.
- 2016: Invited Talk at **Neuchatel University**, Biology Dept. Invited by Prof. Klaus Zuberbuhler.
- 2016: Symposium organiser: 'Links between oxytocin, bonding and cooperation in primates' **International Primatology Society**, Chicago
- 2016: Invited talk in symposium 'Sociality, communication and cognition in non-human primates'. **International Primatology Society** Symposium, Chicago.
- 2016: Invited Contribution to workshop: 'What's the role of emotion in language evolution?' **Berlin School of Mind and Brain**. Invited by Dr. Richard Moore.
- 2016: Invited Talk as Successful Grantee, ERC Starter Training Interview Day, Berlin. Invited by **EU Bureau**.
- 2016: Plenary lecture, **German Ethological Society** Conference. Invited by Prof. Julia Fischer.
- 2015: Invited Talk at **Bristol University**, Biology Dept. Invited by Dr. Andrew Radford.
- 2015: Invited Talk in symposium 'Vocal communication' in **European Primatological Society Conference**, Rome, by Dr. Stuart Semple
- 2015: Invited Contribution to symposium on 'Cognitive Foundations in Primate Communication' in **Protolang Conference**, Rome, by Dr. Richard Moore
- 2014: Invited review for **Frontiers in Behavioral Neuroscience** for special issue "Oxytocin's routes in social behaviour: into the 21st century".
- 2013: Talk for the Bio-Medical Section, **Max Planck Society Annual Group-leaders' Meeting**.
- 2013: Talk for **Göttingen Primatology Graduate Meeting**.
- 2012: Talk for **Society of Behavioural Neuroscience Meeting**, Madison, as Young Investigator Awardee.
- 2012: Talk for **University of Roehampton** Seminar Series. Invited by Dr. Julia Lehmann.
- 2012: Talk for **Max Planck Institute of Evolutionary Anthropology**, Institute Seminar. Invited by Prof. C. Boesch
- 2012: Talk for **Max Planck Institute of Ornithology Seminar Series**. Invited by Dr. Simone Pika.
- 2011: Keynote speaker, **Göttingen & Vienna Graduate School Seminars**. Invited by Profs. J. Fischer & T. Fitch.

2011: Talk for **University of Zurich Anthropology** Colloquium Series. Invited by Prof. Carel van Schaik.
2011: Talk for **University of Zurich Behaviour and Evolution** Colloquium Series. Invited by Prof. Martha Manser.
2011: Talk for **Stirling University** Psychology Colloquium Series. Invited by Dr. Hannah Buchanan-Smith.
2011: Talk for **St. Andrews University** Psychology Colloquium Series. Invited by Prof. Verity Brown.
2010: **Max Planck Institute of Evolutionary Anthropology Primatology Seminar**. Invited by Prof. C. Boesch.
2010: Talk for **Nyabeyya Forestry College Seminar**, Uganda. Invited by Gift Okoga, Vice Principle.
2010: Talk for **Wissenschaftskollege** (Institute for Advanced Study), Berlin. Invited by Prof. Klaus Zuberbühler,
2007: Talk for **University of Manchester** Psychology Department. (May): Invited by Prof. Geoff Beattie.
2007: Talk for **University of Manchester** Psychology Department. (August): Invited by Prof. Geoff Beattie.
2002: Talk for **University of Pennsylvania** Institute for Research in Cognitive Science. Invited by Prof. Dorothy Cheney.

Selected Press Releases

March 2016 **New Scientist**; Sept 2014: **Scientific American** interviewed by Gary Stix; Jan 2014: BBC Radio 4 interviewed by Michael Rosen, **Der Spiegel**, Die Welt, Focus, Daily Mail, Huffington Post, Fox News; Jan 2013: BBC, **Der Spiegel**. Feb-April 2012: **Science News** (cover article). Dec 2011: **Interviews**: BBC Radio 4 Today Programme, BBC World Service, BBC 5 live, BBC Scotland, Swedish National Radio; **Newspaper coverage**: The Guardian, Daily Mail, US Today, Focus, Sueddeutscher Zeitung, Max Planck Society News, The Hindu, The Times of India, Pakistan News; **Online News sites**: BBC news, Yahoo News, ScienceNewsDaily, ScienceDaily, ScienceDirect, SciGuru, PhysOrg; 2011: Teaching evolution and primatology in primary and secondary schools, Fife, Scotland; Apr 2010: **Science Magazine**: 'Talking Chimp to Chimp' by Jon Cohen, News Focus; Sept 2008: **Slate Magazine**: Berlitzing Chimpanzees by Jon Cohen; 2003: **Max Planck Society News Highlights**, Vol 35.



Talking Chimp to Chimp
Science 2010 Vol
