

## 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, Dept of Human Behaviour, Ecology & Culture.

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### Education

- 1/2005: *PhD in Psychology*, from Max Planck Institute for Evolutionary Anthropology (MPI EVA) and University of Leipzig under Profs. Christophe Boesch & Mike Tomasello. PhD title: '*Vocal communication in wild chimpanzees: similarities with and differences to humans*'
- 6/1991: *BSc Speech (Honours)*, Received 2:1, at University of Newcastle upon Tyne. Received: 'First Class Honours' for undergraduate research dissertation, under Prof. Ruth Lesser.

### Positions Held

- 2012 – present: *Group Leader (since 2012) & ERC awardee (since 2016)* at MPI EVA, Primatology Dept, *Scientific Co-Director of the Tai Chimpanzee Project*, Ivory Coast. My group combines observational, experimental and hormonal research to examine questions related to the evolution and development of sociality, communication, social cognition, cooperation and neurobiology in wild chimpanzees, bonobos and mangabeys, examining impacts on health and fitness.
- 2008 – 2012: *British Academy Fellow* at University of St. Andrews, under animal cognition scientist, Prof. Klaus Zuberbühler, combining observational, experimental and hormonal research to examine communication and social intelligence in wild chimpanzees in the Budongo Forest, Uganda. Some of these projects are conducted jointly with Dr. Roman Wittig.
- 2004 - 2007: *Postdoctoral position* under animal cognition scientists, Profs. Cheney and Seyfarth, University of Pennsylvania, Philadelphia, conducting experimental and hormonal research, relating to primate social knowledge and social stress, in wild baboons, Botswana. Projects were conducted jointly with Dr. Roman Wittig.
- 1998 - 2004: *Doctoral studies* supervised by Prof. Christophe Boesch at MPI EVA, Leipzig, examining vocalizations of wild chimpanzees in the Tai Forest, Ivory Coast, including maternity leave and one year of part-time work.
- 1997: Acquiring primatological and anthropological field experience in West and Southern Africa.
- 1993 - 1996: *Specialist speech and language therapist* in acquired adult disorders, St. Thomas' and Guy's Hospitals' Trust, London. Head of team for the assessment, therapy and management of all adult in-patient referrals with acquired communication and swallowing disorders, including neuro-diagnostics.
- 1991 - 1993: *Speech and language therapist*, Greenwich Healthcare Trust, London.

## Fellowships, Grants and Awards

- 2017: German Science Foundation: Primate Sociality and Health Consortium (PI): €250,000  
2016: European Research Council Starter Grant (PI): Ape Attachment €1,500,000 (Top score in Germany).  
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', Journal of Animal Behaviour.  
1998: 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.*

## Conferences Organised:

- 2019: Primate Brain and Behavioural Evolution Conference, Erice, Sicily.  
<http://schools.centromajorana.it/primbrain2019/>  
2019: Tai Chimpanzee Project 40 Years Symposium, MPI EVA.  
<https://www.eva.mpg.de/primat/conferences/symposium-2019/index.html>  
2015: German Primate Society Conference, MPI EVA.

Reviewer: *Funding Bodies:* H2020 Expert Reviewer, ERC, German Science Foundation, Leakey Foundation, Leverhulme Trust, NERC, NSF, Vienna Science & Technology Fund, Graduate Women in Science. *Journals:* Animal Cognition, American Journal of Primatology, Animal Behaviour, Behavioural Ecology and Sociobiology, Biology Letters, Child Development, Current Biology, Elife, Hormones and Behavior, International Journal of Primatology, Journal of Comparative Psychology, Nature, Nature Communications, Physiology and Behavior, Proceedings of the Royal Society Series B. Psychoneuroendocrinology, Science Advances.

External PhD Advisor: Department of Biology, Neuchatel University; Max Planck Institute for Ornithology.

## Doctoral Alumni

- Liran Samuni 2018: Suma Cum Lauda, Postdoc, Harvard University.  
Alex Mielke 2018: Suma Cum Lauda, Postdoc/Newton Fellow, Oxford University.  
Anna Preis 2019: Magna Cum Lauda, Conservation biologist.  
Marlen Frolich 2016 (as external supervisor). Postdoc, Zurich University.

## Postdoctoral Alumni

- Pawel Fedurek, Lecturer, Sterling University, Scotland.  
Isaac Schamberg, Postdoc, Harvard University, USA.  
Natalie Uomini, Postdoc, Max Planck Institute, Jena.  
Ruth Sonnweber, Maternity leave.

## Current Research Group Members

### Postdocs:

Dr. Cedric Gerard-Buttoz: How cooperation changes cognition: comparing wild chimpanzees and bonobos.

Dr. Patrick Tkaczynski: The relative influence of genetic pedigree versus maternal influence on hormonal variation, sociality and cognition in wild chimpanzees, using a multi-hormonal and field experiment approach.

Kathrin Kopp: How much does life experience change the brain structure and pathways of apes?

Aisha Bruendl: Social developmental milestones in chimpanzees.

### PhD students:

Sylvain Lemoine: Chimpanzee intergroup competition and its impact on fitness. Tai Forest, Ivory Coast.

Clement Gba: Sooty Mangabey food competition: the impact on both males and females.

Prince Vale: Energy intake in wild chimpanzees: the relative influence of season, social dynamics & behavior

Virgile Manin: Determining causal links between sociality, neuroendocrine functioning, health and fitness in wild chimpanzees

Tatiana Bortolato: The chimpanzee vocal repertoire is more complex than we thought.

Mathilde Grampp: Social complexity of approach behaviour in mangabeys and chimpanzees.

## Current Collaborations

Roman Wittig, Director of Tai Chimpanzee Project, MPI EVA, for chimpanzee work.

Tobias Deschner, Director the Field Endocrinology Lab, MPI EVA, for all hormone work.

Gottfried Hohmann & Martin Surbeck, Directors of Lui Khotale and Kokolopori Bonobo Field Sites, for chimpanzee - bonobo comparisons.

Linda Vigilant, Head of Field Genetics Lab, MPI EVA, examining chimpanzee genetic pedigrees and life history

Richard McElreath, Philippe Gunz, MPI EVA for High Res chimpanzee brain imaging: comparison between wild and captive chimpanzee communication pathways.

Daniel Haun, Child Developmental Psychology, Leipzig University, Germany

Nikolaus Weiskopf, Angela Friederici, Alfred Anwander, Carston Jaeger, Max Planck Institute of Cognitive Neuroscience, Leipzig, for High Res chimpanzee brain imaging: comparison between wild and captive chimpanzee communication pathways.

Markos Morawski, Paul Fleschig Institute, Leipzig Germany.

Peter Kappeler, Julia Ostner, Oliver Schulke, Claudia Fichtel and the SoHapi Group, Göttingen University, for Sociality & Health in primates.

Sven Grawunder, Human Behavioural Ecology, MPI EVA, and Natalie Uomini, MPI for Science of Human History, Jena, on phonetic analyses of chimpanzee vocalisations.

Fabian Leendertz, Director of Highly Infectious Zoonoses Lab, Robert Koch Institute, Berlin for brain studies on chimpanzees and bonobos

Cat Hobaiter, St. Andrews University, Scotland for cross-population chimpanzee studies.

Barbara Fruth, John Moore University, Liverpool, chimpanzee-bonobo comparisons.

Fred Babweetera, Makerere University, Uganda, cross-population chimpanzee studies.

Marion Laporte, CNRS, Paris, cross-population chimpanzee studies

Klaus Zuberbühler, Biology Dept, Neuchatel University for cross-population chimpanzee studies.

Susan Alberts, Biology, Duke University, Comparative primate demography and mortality.

Darren Croft, Sam Ellis, Exeter University, UK

Josep Call, St. Andrews University, UK

Courses Taught or contributed to:

*Masters*

UPENN: Comparative Cognition; Evolution of language

St. Andrews University: Evolution of Sociality

Leipzig University: Comparative Behavioural Biology

*Undergraduate*

St. Andrews University: Comparative Psychology

Invited Talks (in the last 8 years)

- 2020: Invited talk, Vienna University, Austria. Invited by Friedericke Range.
- 2020: Invited Talk, Warwick University, UK. Invited by Richard Moore.
- 2019: CNRS, Center for Cognitive Neuroscience, Lyon. Invited by Angela Sirigu.
- 2019: Conference Organiser, Primate Brain and Behaviour Evolution Conference, Sicily.
- 2019: Workshop Organiser, Tai Chimpanzee Project: Celebration of 40 years of research, Leipzig, Germany.
- 2019: Invited talk, World Congress on Neurohypophysial Hormones, Ein Gedi resort, Israel.
- 2019: Invited talk, European Brain and Behaviour Society Meeting, Prague.
- 2018: Invited talk, Philosophy Seminar Series, University of Karlsruhe, Germany.
- 2018: Plenary lecture, International Seminar on Behavioural Methods, Medical University of Silesia, Krakow, Poland.
- 2018: Invited talk, Oxytocin and Future Therapies Conference, Sicily
- 2018: Invited talk in symposium on 'Social Buffering' at German Neuroscience Conference, Gottingen, Germany.
- 2017: Plenary lecture, Italian Primatology Association, South Tyrol.
- 2017: Invited talk, Bristol University Biology Dept.
- 2017: Invited talk, Symposium in Evolutionary Anthropology, Zurich University Anthropology Dept.
- 2016: Invited to join workshop on 'Sociality-fitness link', invited by Prof. Julia Ostner, Gottingen University, Germany.
- 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 Prof. 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 21<sup>st</sup> century".
- 2013: Invited Talk for the Bio-Medical Section, Max Planck Society Annual Group-leaders' Meeting.
- 2013: Invited Talk for Göttingen Primatology Graduate Meeting.
- 2012: Invited Talk for Society of Behavioural Neuroscience Meeting, Madison, as Young Investigator Awardee.
- 2012: Invited Talk for University of Roehampton Seminar Series. Invited by Dr. Julia Lehmann.
- 2012: Invited Talk for Max Planck Institute of Evolutionary Anthropology, Institute Seminar Series.
- 2012: Invited Talk for Max Planck Institute of Ornithology Seminar Series. Invited by Dr. Simone Pika.

### Selected Press Releases

Nov 2018: MDR TV interview. Nov 2017: Nature Highlights, New York Times, Newsweek, LA Times, Scientific American, The Independent, Daily Mail. Jan 2017: New Scientist, Interviewed by Canadian Broadcasting Corporation Science Program; Nov 2016 Newsweek, LATimes, Daily Mail; 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 2009: Slate Magazine: Berlitzing Chimpanzees by Jon Cohen; 2003: Max Planck Society News Highlights, V Science 2010 Vol 328

