

## Andreas Berghänel

### Higher Education

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- 2016 – 2018 **Postdoctoral research position**
- *University of New Mexico, Department of Anthropology*
  - *Kibale Chimpanzee Project*
- 2011 – 2016 **PhD (*summa cum laude*)**
- *Department of Behavioural Ecology, University of Göttingen, and Leibniz Graduate School for the Foundations of Primate Social Behaviour, German Primate Center, Göttingen*
  - Thesis: **Immature development in wild Assamese macaques**  
Supervisors: Prof. Dr. Julia Ostner and PD Oliver Schülke
- 2010 – 2011 **Independent research associate**
- *CRC Evolution of Social Behaviour, University of Göttingen*
- 2003 – 2010 **Diploma in Biology**
- *Universities of Mainz, Jena and Leipzig*
  - Focus on behavioural ecology and behavioural physiology
  - Thesis at MPI for Evolutionary Anthropology, Leipzig: **Socioecology and socio-endocrinology of male Barbary macaques**  
Supervisors: Prof. Dr. Julia Ostner and PD Oliver Schülke

### Relevant experience

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- 2015 **Teaching assistant in practical course on Primate Behaviour**  
*Department of Behavioural Ecology, University of Göttingen*
- 2014 **Co-taught a seminar on classics in Behavioural Ecology**  
*Department of Behavioural Ecology, University of Göttingen*
- 2012 – 2013 **Supervision of a diploma thesis (Christin Minge)**  
*Department of Behavioural Ecology, University of Göttingen*
- 2011 – 2012 **Camp manager and field work at Phue Khieo Wildlife Sanctuary, Thailand**
- *CRC Evolution of Social Behaviour, University of Göttingen*
  - Faecal samples, non-invasive measurement of growth, motor skill acquisition and immune function, behavioural observation
- 2008 – 2009 **Field work at Affenberg Salem, Germany**
- *Integrative Primate Socioecology Research Group, MPI for Evolutionary Anthropology, Leipzig*
  - Faecal samples, behavioural observation, night observation
- 2008 – 2009 **Field assistant on navigational behaviour of desert ants, Tunisia**
- *Department of Evolutionary Neuroethology, MPI for Chemical Ecology, Jena*
- Before 2003 **Goatherd and carpenter on small-scale farms across Europe**

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**Publications**

<https://scholar.google.com/citations?user=dAl5qnkAAAAJ>

- **A. Berghänel**, M. Heistermann, O. Schülke, J. Ostner (2017): Prenatal stress accelerates offspring growth to compensate for reduced maternal investment across mammals. *PNAS* 114 (50) E10658-E10666; doi: 10.1073/pnas.1707152114
- E. Rathke, **A. Berghänel**, A. Bissonnette, J. Ostner, O. Schülke (2017): Age-dependent change of coalitionary strategy in male Barbary macaques. *Primate Biology* 4, 1-7; doi: 10.5194/pb-4-1-2017
- **A. Berghänel**, M. Heistermann, O. Schülke, J. Ostner (2016): Prenatal stress effects in a wild, long-lived primate: Predictive adaptive responses in an unpredictable environment. *Proceedings of the Royal Society of London B* 283; doi: 10.1098/rspb.2016.1304
- C. Minge\*, **A. Berghänel**\*, O. Schülke, J. Ostner (2016): Patterns and consequences of male-infant relationships in wild Assamese macaques. *International Journal of Primatology* 37, 350–370; doi: 10.1007/s10764-016-9904-2 \*Joint first authors
- **A. Berghänel**, O. Schülke, J. Ostner (2015): Locomotor play drives motor skill acquisition at the expense of growth: a life history trade-off. *Science Advances* 1 (7); doi: 10.1126/sciadv.1500451
- **A. Berghänel**, U. Schröder, O. Schülke, J. Ostner (2011): Social bonds predict future cooperation in male Barbary macaques (*Macaca sylvanus*). *Animal Behaviour* 81(6), 1109-1116; doi:10.1016/j.anbehav.2011.02.009
- **A. Berghänel**, J. Ostner, O. Schülke (2011): Coalitions destabilize dyadic dominance relationships in male Barbary macaques (*Macaca sylvanus*). *Behaviour* 148(11-13), 1256-1274; doi:10.1163/000579511X600628
- **A. Berghänel**, O. Schülke, J. Ostner (2010): Coalition formation among Barbary macaque males: the influence of scramble competition. *Animal Behaviour* 80(4), 675-682; doi:10.1016/j.anbehav.2010.07.002
- In prep • O. Schülke, **A. Berghänel**, J. Ostner: Review article: Prenatal maternal stress effects on the development of social behavior. *Behavioral Ecology and Sociobiology*, Special Issue “An evolutionary perspective on the development of primate sociality”

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**Reviewer activity**

Behavioral Ecology (1), Behavioral Ecology and Sociobiology (3), American Journal of Primatology (5), International Journal of Primatology (1), Journal of Physical Activity and Health (1)

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**Presentations**

- Oral presentations:
- Department of Anthropology 2017, University of New Mexico, Albuquerque (USA): “Plasticity in Early Development: How Life History Trade-offs Shape Growth Variation” – **Invited talk**
  - 26<sup>th</sup> Meeting of the International Primatological Society (IPS) 2016, Chicago (USA): “Prenatal stress effects on offspring growth” – **Invited symposium talk**
  - Meeting of the “Sociality and Health in Primates” research group 2015, German Primate Center Göttingen (Germany): “The adaptive value of prenatal stress” – **Invited talk**
  - 14<sup>th</sup> Conference of the Gesellschaft für Primatologie (GfP) 2015, Leipzig (Germany): “The adaptive value of prenatal stress during early ontogeny”
  - 25<sup>th</sup> Meeting of the International Primatological Society (IPS) 2014, Hanoi (Vietnam): “Social play drives motor skill acquisition at the expense of growth: a life history trade-off” – **Awarded (1<sup>st</sup> prize)**
  - 9<sup>th</sup> Topical meeting of the Ethological Society 2014, Tutzing (Germany): “Social play and growth: Developmental trade-offs in wild infant Assamese macaques”
  - 9<sup>th</sup> Conference of the Gesellschaft für Primatologie (GfP) 2011, Utrecht (Netherlands): “Social bonds predict future cooperation in male Barbary macaques (*Macaca sylvanus*)”
- Poster presentations:
- 107<sup>th</sup> Meeting of the German Zoological Society (DZG) 2014, Göttingen (Germany): “The ontogenetic significance of animal play: Developmental costs and benefits” – **Awarded**
  - 9<sup>th</sup> Göttinger Freilandtage 2013, Göttingen (Germany): “Social activity and developmental trade-offs in wild Assamese macaques”
  - 32<sup>nd</sup> Thai wildlife conference 2011, Bangkok (Thailand): “Non-invasive measurement of growth rates”

## Awards

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2014

**Most outstanding paper/Best talk (1<sup>st</sup> price)**

Meeting of the International Primatological Society, Hanoi

**Poster award**

Meeting of the German Zoological Society, Göttingen

## Media (selection)

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Work was featured by:

De Volkskrant, Die Welt, Tagesspiegel, Der Standard, Neue Zürcher Zeitung, New York Observer, Daily Mail, New Zealand Herald, Bild der Wissenschaft, Pour la Science, Phys.org, ScienceDaily, n-tv, Fox NM (TV), Deutschlandfunk, SWR, rbb etc.