

Pascal Roger Marty, Ph.D

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Research Interests

Integrative approaches to behavioural evolution, sexual selection, reproductive strategies and evolution, within and outside the context of an anthropogenic environment.

Academic Education

Ph.D	German Primate Center, Georg-August-University, Göttingen, Germany, Thesis: Male dispersal in crested macaques (<i>Macaca nigra</i>) PIs: Dr. Antje Engelhardt, Dr. Julia Fischer, Dr. Keith Hodges Grade: <i>Magna cum laude</i>	2011-2015
M.Sc	Anthropological Institute and Museum, University of Zurich, Switzerland Thesis: Endocrinological correlates of Male Bimaturism in Wild Bornean Orangutans PIs: Dr. Carel van Schaik, Dr. Maria van Noordwijk, Dr. Tony Weingrill	2007-2010
B.Sc	University of Zurich, Switzerland	2004-2007

Professional Appointments

Postdoctoral Researcher Department of Population Health & Reproduction, School of Veterinary Medicine, University of California, Davis, CA. PI: Brenda McCowan	2016- present
Research Associate University Science Malaysia, Penang	2017- present
Guest Lecturer University of California, Davis	2018
Postdoctoral Researcher German Primate Center, Germany. PI: Dr. Antje Engelhardt	2015
Research Assistant Anthropological Institute and Museum, University of Zurich PI: Dr. Carel van Schaik	2010

Publications

Marty PR, Beisner B., Kaburu SSK, Balasubramaniam K, et al. Time constraints imposed by anthropogenic environments alter social behaviour in long-tailed macaques. *Animal Behaviour* 150:157-165.

Kaburu SSK, **Marty PR**, Beisner B., Balasubramaniam K, et al. Rates of human Macaque interactions affect grooming behavior among urban-dwelling rhesus macaques (*Macaca mulatta*). 2019. *American Journal of Physical Anthropology*. 1-12

Marty PR, Hodges K, Heistermann M, Agil M, Engelhardt A. Is social dispersal stressful? A study in male crested macaques (*Macaca nigra*). 2017. *Hormones and Behavior* 87:62-68.

Marty PR, Hodges K, Agil M, Engelhardt A. Alpha male replacements and delayed dispersal in male crested macaques (*Macaca nigra*). 2017. *American Journal of Primatology* 79:e22448

Marty PR, Dispersal Strategies in Primate Males. 2017. *Malayan Nature Journal*. 69:4

Marty PR, Hodges K, Agil M, Engelhardt A. Determinants of immigration strategies in male crested macaques (*Macaca nigra*). 2016. *Scientific Reports*. 6, 32028.

Marty PR, van Noordwijk MA, Heistermann M, Willems EP, Dunkel L, Cadilek M, Agil M, Weingrill T. New Endocrinological Implications for Male Bimaturism in Wild Bornean Orangutans. 2015. *American Journal of Primatology*. 77(11): 1170-1178

Marty PR, Beisner B., Hubbard J., McCowan B. Male rank stability predicts reproductive success in groups of captive rhesus macaques (*Macaca mulatta*). *In revision*, *American Journal of Primatology*.

Published meeting abstracts

Marty PR, Hodges, K, Agil, M, Engelhardt, A (2014). Alpha male takeovers by immigrant males in crested macaques. *American Journal of Physical Anthropology* 153: 177-178

Dunkel LP, van Noordwijk MA, **Marty PR**, Prasetyo E, Atmoko SSU, van Schaik CP (2011). Male Mating Strategies: A Comparison between Bornean and Sumatran Orangutans. *Folia Primatologica* 82: 337-338

Marty PR, Cadilek M, Dunkel L, Heistermann M, Weingrill T (2009). Glucocorticoid and Androgen Levels in Flanged and Unflanged Wild Bornean Orang-Utans. *Folia Primatologica* 80:165-165

Cadilek M, **Marty PR**, Dunkel L, Heistermann M, Weingrill T (2009). Female Behaviour and Stress Levels in Response to Interactions with Males in Bornean Orang-Utans (*Pongo pygmaeus wurmbii*). *Folia Primatologica* 80:153-153

Weingrill T, Cadilek M, **Marty PR**, Heistermann M (2009). Faecal Glucocorticoid Levels of Zoo and Wild Bornean Orang-Utans: How Stressed Are Orang-Utans in Captivity? *Folia Primatologica* 80:148-149

Invited Talks

- Marty, PR.**, Hodges, K., Agil, M., Engelhardt, A. Male dispersal in crested macaques, University of Goettingen, Germany, February 12 2013
- Marty, PR.**, Hodges, K., Agil, M., Engelhardt, A. Male dispersal in crested macaques, Bogor agricultural University, Indonesia, December 12 2012
- Marty, PR.**, Hodges, K., Agil, M., Engelhardt, A. Male migration in crested macaques, Nature Conservation Agency; Indonesia, December 14 2012
- Marty, PR.**, Hodges, K., Agil, M., Engelhardt, A. Endocrinological correlates of male bimaturation in Bornean Orangutans, University of Palangkaraya, Indonesia 2008

Conference Presentations

- Marty, PR.**, Beisner, B., Kaburu, SSK., Balasubramaniam, K., Bliss-Moreau, E., Arlet, ME., Atwill, ER., & McCowan, B. (2018). Time constraints and stress imposed by human presence alter social behavior in urban long-tailed macaques (*Macaca fascicularis*) in Kuala Lumpur, Malaysia. 27th Meeting of the International Primatological Society in Nairobi (Kenya). 2018
- Kaburu, SSK., Bliss-Moreau, E., Srivastava, S., Beisner, B., **Marty, PR.**, Balasubramaniam, K., Arlet, ME., Atwill, ER., & McCowan, B. Investigation of the factors driving the conflict between people and rhesus macaques (*Macaca mulatta*) in Shimla, Northern India. 27th meeting of the International Primatological Society in Nairobi (Kenya). 2018
- Balasubramaniam, KN., Beisner, BA., Bliss-Moreau, E., Kaburu, SSK., **Marty, PR.**, Arlet, M.E., & McCowan, B. Assessing human-primate conflict as dynamic coupled natural and human systems. 27th meeting of the International Primatology Society Meetings in Nairobi (Kenya). 2018
- Marty, PR.**, Beisner, B., Kaburu, SSK., Balasubramaniam, K., Bliss-Moreau, E., Arlet, ME., Atwill, ER., & McCowan, B. (2018). Time constraints and stress imposed by human presence alter social behavior in urban long-tailed macaques (*Macaca fascicularis*) in Kuala Lumpur, Malaysia. 27th Meeting of the International Primatological Society in Nairobi (Kenya). 2018
- Kaburu, SSK., Bliss-Moreau, E., Srivastava, S., Beisner, B., **Marty, PR.**, Balasubramaniam, K. & McCowan, B. Investigation of the factors driving the conflict between people and rhesus macaques (*Macaca mulatta*) in Shimla, Northern India. 4th Annual UC Davis Postdoctoral Research Symposium, Davis (US). 2018
- Srivastava, S., Bliss-Moreau, E., Kaburu, SSK., Kshatriya, GK., Beisner, B., **Marty, PR.**, Balasubramaniam, K. & McCowan, B. Human perceptions and attitudes towards human-macaque conflict in Shimla, North India. 6 th Asian Primate Symposium, Kathmandu (Nepal). 2018

- Chakraborty, B., Kaburu, SSK., Beisner, B., **Marty, PR.**, Balasubramaniam, K., Bliss-Moreau, E., Mohan, L. & McCowan, B. Effect of human-macaque interactions on grooming behavior of urban rhesus macaque (*Macaca mulatta*) in the city of Shimla, Northern India. 6 th Asian Primate Symposium, Kathmandu (Nepal). 2018
- Aiempichitkijkarn, N., Kaburu, SSK., Beisner, B., **Marty, PR.**, Balasubramaniam, K., Bliss-Moreau, E. & McCowan, B. Group position predicts robbing and bartering behavior among rhesus macaques (*Macaca mulatta*) in Shimla, Northern India. 6 th Asian Primate Symposium, Kathmandu (Nepal). 2018
- Kaburu, SSK., Beisner, B., **Marty, PR.**, Balasubramaniam, K., Bliss-Moreau, E., Atwill, ER., McCowan, B. Investigation of grooming interactions among urbandwelling rhesus macaques (*Macaca mulatta*) in Shimla (Northern India). 40th meeting of the American Society of Primatologists in Washington, DC (USA) 2017
- Marty, PR.**, Beisner, B., Kaburu, SSK., Balasubramaniam, K., Bliss-Moreau, E., Atwill, ER., McCowan, B. Determinants of human-nonhuman primate conflicts in long-tailed macaques (*Macaca fascicularis*) in Malaysia. 40th meeting of the American Society of Primatologists in Washington, DC (USA) 2017
- Bliss-Moreau, E., Srivastava, S., Kaburu, SSK., **Marty, PR.**, Balasubramaniam, K., Beisner, B., McCowan, B. The perception of macaques' minds is related to attitudes about macaques at interfaces. 40th meeting of the American Society of Primatologists in Washington, DC (US) 2017
- Marty, PR.**, Hodges, K., Agil, M., Engelhardt, A. Social upheavals: Immigrations and their physiological stress correlates in male crested macaques (*Macaca nigra*), International Primatological Society, 11-16 August 2014
- Marty, PR.**, Hodges, K., Agil, M., Engelhardt, A. Cost and benefit dependent migration strategies in male crested macaques (*Macaca nigra*), German Zoological Society, 11-14 September 2014
- Marty, PR.**, Hodges, K., Agil, M., Engelhardt, A. Alpha male takeovers by immigrant males in crested macaques, Current Research Center closing conference, University of Goettingen, June 16 2014
- Weingrill T, Cadilek M, **Marty PR**, Heistermann M (2009). Faecal Glucocorticoid Levels of Zoo and Wild Bornean Orang-Utans: How Stressed Are Orang-Utans in Captivity? European Federation of Primatology, 12-15 August 2009

Poster Presentations

- Ismail, M., Arlet, ME., Majoe, M., Saha, R., Dongre, P., van Berkel, M., Sobrino, A., Balasubramaniam, K., Beisner, B, Kaburu, SSK., **Marty, PR.**, Bliss-Moreau, E., & McCowan, B. Living on the edge : Feeding ecology of female bonnet macaques in semi-urban landscapes. 6th Asian Primate Symposium, Kathmandu (Nepal). 2018

Majoe, M., Arlet, ME., Mohammed, I., Saha, R., Van Berkel, M., Dongre, P., Sobrino, A., Balasubramaniam, K., Beisner, B., Kaburu, SSK., **Marty, PM.**, Bliss-Moreau, E. & McCowan, B. Factors influencing Bonnet macaques to initiate interactions with humans. 6th Asian Primate Symposium, Kathmandu (Nepal). 2018

Marty, PR., Hodges, K., Agil, M., Engelhardt, A. Alpha male takeovers by immigrant males in crested macaques, Annual Meeting of the American Association of Physical Anthropologists, 8-12 April 2014

Marty, PR., Cadilek, M., van Noordwijk, M., Weingrill, T. Socio-endocrinological correlates in male Bornean Orangutans, European Federation of Primatology, 12-15 August 2009

Cadilek, M., **Marty, PR.**, van Noordwijk, M., Weingrill, T. Female Behaviour and Stress Levels in Response to Interactions with Males in Bornean Orang-Utans (*Pongo pygmaeus wurmbii*), European Federation of Primatology, 12-15 August 2009

Teaching

PSC123 Hormones and Behavior (~ 40 students; Guest-Lecturer). Department of Psychology, University of California, Davis 2018

PHR298 Social Network Analysis (~ 30 students; TA). Department of Population Health and Reproduction, University of California, Davis 2018

Microsoft Access Workshop for research assistants CNHS project 2017

R Several workshop on multiple regression models, non-parametric test and visualizations in R for research assistants CNHS project 2017

HandBase Workshop for research assistants CNHS and *Macaca nemestrina* project 2017

Mentoring (*BSc, MSc, PhD level*)

German Primate Center Elenora Neugebauer • Sarah Wiebke • Arief Imansia • Ismail Agung • Caitlin Jean Hannah • Maura Tyrell 2011-2015

UC Davis Camille Luccisano • Silvia La Gala • Eduardo Saczek • Rachael Hume • Shelby Samartino • Nur Atiqah Tahir • Josephine Hubbard 2016-2019

Field Work

Coupled Human-Nature Systems Project, Kuala Lumpur, Malaysia (<i>Macaca fascicularis</i>)	2016-2018
<i>Macaca nigra</i> Project, Sulawesi, Indonesia	2011-2013
Useless loop Dolphin Project, Western Australia, (<i>Tursiops sp.</i>)	2010
Tuanan Orangutan Projects, Central Kalimantan, Indonesia	2008-2009

Laboratory Experience

Endocrinological Laboratory, German Primate Center, Germany Skills learned: <i>ELISA for glucocorticoids and androgens</i>	2014
Faculty of Veterinary Medicine. Bogor Agricultural University, Indonesia Skills learned: <i>Extraction and preparation of hormone samples</i>	2008
Institute for laboratory animal science, University of Zürich, Switzerland Skills learned: <i>Handling and techniques in laboratory animals (e.g. application of substances, sampling, anesthesia)</i>	2005

Grants

University of California Postdoctoral Travel Grant, 400\$	2018
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Ad-Hoc Peer Reviewing

Hormones and Behavior • Behavior Ecology and Sociobiology • International Journal of Primatology • Folia Primatologica • Primate Biology • Primates

Spoken Languages

German • English • French • Indonesian • Malay

Popular Press Coverage

BBC: <i>Why male orangutans have such weird faces</i> , Marty et al. 2015 http://www.bbc.com/earth/story/20151027-new-insights-into-strange-faced-orangutans	2015
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