

Lucie Rigaille, D. Sc.

Contact information

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Employment History

2017 ~ 2020 Program Specific Assistant Professor, Primate Research Institute of Kyoto University
2017 ~ Chercheur associé UMR 7206 CNRS-MNHN, Musée de l'Homme, France

Education History

2013-2017 Doctoral Course in Biological Science Primate Research Institute, Kyoto University, Japan.
PhD dissertation “*Multimodal sexual signaling and mating strategies in olive baboons and Japanese macaques*” Committee: Prof. Takeshi Furuichi, Prof. Fred Bercovitch, Dr Cécile Garcia, Dr Andrew JJ MacIntosh, Dr Kodzue Kinoshita
2009-2011 M.Sc. in Physical Anthropology University of Aix-Marseille 2, France
2006-2009 B.Sc. in Cellular Biology and Physiology University of Paris 7, France

Research Keywords: Sexual communication, female signals, perception, mating behavior, reproductive endocrinology, digital photography, human and non-human primates

Competitive awards and fellowships

2018-20 Grant-in-Aid for Research Activity start-up from the Japan Society for the Promotion of Science (JSPS), Japan (project 18H05810, JPY 2.470.000)
2017 International Primatological Society Research Grant (~US\$1000)
2016 Best Poster Award–First Prize: *Face color indicates female reproductive state but not quality in Japanese macaques*, 5th International Symposium on Primatology and Wildlife Science, Japan
2015-17 Grant-in-Aid for JSPS Fellows from the Japan Society for the Promotion of Science JSPS, Japan (project 15J01067, JPY 1.900.000)
2014 Heiwa Nakajima Scholarship for Foreign Students, Japan
2013 Honors scholarship for Privately Financed International Student JASSO, Japan
2011 Best Presentation Award–First Prize (€750): *Sexual signals and mating behavior in olive baboons*, XXIV^e Colloque de la Société Francophone de Primatologie, France

Peer-review publications

1. **L Rigaille**, N Suda-Hashimoto, L Ducroix, K Mouri, T Furuichi, C Garcia (2017) Testing the role of female urine on male sexual behaviors in captive Japanese macaques. *International Journal of Primatology* 38(5):823-837 DOI:10.1007/s10764-017-9980-y
2. **L Rigaille**, AJJ MacIntosh, JP Higham, S Winters, K Shimizu, K Mouri, T Suzumura, T Furuichi, C Garcia (2017) Testing for links between face color and age, dominance status, parity, weight and intestinal nematode infection in female Japanese macaques. *Primates* 58(1):83-91. DOI:10.1007/s10329-016-0575-6
3. C Garcia, F Bercovitch, T Furuichi, MA Huffman, AJJ Macintosh, **L Rigaille**, RSC Takeshita, K Shimizu (2016) Ten years of collaboration between France and Japan-Studies on reproduction in Japanese macaques. *Revue de Primatologie* 7 (online). DOI: 10.4000/primatologie.2666
4. **L Rigaille**, AJJ MacIntosh, JP Higham, S Winters, K Shimizu, K Mouri, T Furuichi, C Garcia (2015) Multimodal advertisement of pregnancy in free-ranging female Japanese macaques (*Macaca fuscata*). *PLoS ONE* 10(8): e0135127. DOI:10.1371/journal.pone.0135127

5. **L Rigaille** (2014) Multimodal ovulatory signaling in human and non-human primates. *Bulletins et Mémoires de la Société d'Anthropologie de Paris*. 26 (2-3):161-165 DOI:10.1007/s13219-014-0108-z
6. RSC Takeshita, FB Bercovitch, MA Huffman, K Mouri, C Garcia, **L Rigaille**, K Shimizu (2014) Environmental, biological, and social factors influencing fecal adrenal steroid concentrations in female Japanese macaques (*Macaca fuscata*). *American Journal of Primatology* 76 (11), 1084-1093
7. **L Rigaille**, JP Higham, PC Lee, A Blin, C Garcia (2013) Multimodal sexual signaling and mating behavior in olive baboons (*Papio anubis*). *American Journal of Primatology* 75 (7):774-787. DOI:10.1002/ajp.22154

*Presentation in Congresses and Symposiums (*presenting author)*

1. **31^{ème} colloque de la Société Francophone De Primatologie**, Paris, France (Octobre 2018) **L Rigaille***. La coloration des lèvres : un indice de l'ovulation chez l'humain ? *Oral*
2. **10th International Symposium on Primatology and Wildlife Science**, Kyoto, Japon (Septembre 2018) **L Rigaille***. Read my lips: when the red gets redder. *Oral*
3. **34th congress of the Primate Society of Japan**, Tokyo, Japan (July 2018) **L Rigaille***. Women lips coloration as a signal of fertility and quality (**abstract** Primate Research Supplement The 34th Congress Primate Society of Japan, 2015, doi.org/10.14907/primat.34.0_33_3) *Oral*
4. **The 87th Annual Meeting of the American Association of Physical Anthropologists**, Austin, USA (Avril 2018). SE Kessler*, **L Rigaille**, SE Street. Levels of selection: Untangling kin and individual signatures in vocalizations. (**abstract** American Journal of Physical Anthropology, 2018, 165:138-138) *Poster*
5. **7th European Federation for Primatology Meeting**, Strasbourg, France (August 2017) **L Rigaille***, AJJ MacIntosh, JP Higham, S Winters, T Furuichi, C Garcia. Face color indicates female reproductive state but not individual characteristics in Japanese macaques (*Macaca fuscata*). *Oral*
6. **7th European Federation for Primatology Meeting**, Strasbourg, France (August 2017) C Garcia*, **L Rigaille**, F Bercovitch, T Furuichi, MA Huffman, AJJ Macintosh, RSC Takeshita, K Shimizu. 10 years of collaboration between France and Japan-Studies on reproduction in Japanese macaques. *Poster*
7. **47^{ème} Colloque Société Française pour l'Etude du Comportement Animal**, Gif-sur-Yvette, France (May 2017) **L Rigaille***, AJJ MacIntosh, JP Higham, S Winters, T Furuichi, C Garcia. Impact des signaux sexuels multiples des femelles sur les stratégies de reproduction chez le babouin olive et le macaque Japonais. *Oral*
8. **XXIX^e Colloque de la Société Francophone de Primatologie**, Paimpont, France (October 2016) C Garcia*, **L Rigaille**, AJJ MacIntosh, JP Higham, S Winters, K Shimizu, K Mouri, T Furuichi. Existe-t-il des variations de la couleur de la face en fonction de l'âge, la dominance, la parité, le poids, et l'infection parasitaire intestinale chez des femelles macaques japonais (*Macaca fuscata*)? *Oral*
9. **Seminar on Japanese macaque research**, Inuyama, Japan (June 2016) **L Rigaille***, N Suda-Hashimoto, L Ducroix, K Mouri, T Furuichi, C Garcia. Does female urine modulate male sexual behaviors in Japanese macaques?
10. **The 5th International Symposium on Primatology and Wildlife Science**, Inuyama, Japan (March 2016) **L Rigaille***, AJJ MacIntosh, JP Higham, K Shimizu, K Mouri, T Suzumura, T Furuichi, C Garcia. Face color indicates female reproductive state but not quality in Japanese macaques (*Macaca fuscata*).
11. **XXVIII^e Colloque de la Société Francophone de Primatologie**, Strasbourg, France (October 2015) C Garcia*, **L Rigaille**, AJJ MacIntosh, JP Higham, S Winters, K Shimizu, K Mouri, T Furuichi. Signalisation multimodale de la gestation chez le macaque japonais (*Macaca fuscata*). (**abstract** Revue de Primatologie, 2016 Varia(6) DOI : 10.4000/primatologie.2346) *Oral*
12. **6th European Federation for Primatology Meeting**, Rome, Italy (August 2015) **L Rigaille***, AJJ MacIntosh, JP Higham, S Winters, K Shimizu, K Mouri, T Furuichi, C Garcia. Female Japanese macaques advertise pregnancy in multiple modalities. (**abstract** Folia Primatologica 2015, DOI: 10.1159/000435825) *Oral*
13. **31st Congress of the Primate Society of Japan**, Kyoto, Japan (July 2015) **L Rigaille***, AJJ MacIntosh, JP Higham, S Winters, K Shimizu, K Mouri, T Furuichi, C Garcia. Multiple sexual signals of pregnancy in Japanese macaques (**abstract** Primate Research Supplement The 31st Congress Primate Society of Japan, 2015, doi.org/10.14907/primat.31.0_72_2) *Oral*

14. **EFOR Seminar: Reproductive function in non-human primates**, Paris, France (March 2015) C Garcia* & L Rigaille. Multimodal sexual signaling and mating behavior in non-human primates. *Oral*
15. **The 3rd International Symposium on Primatology and Wildlife Science**, Kyoto, Japan (March 2015) L Rigaille*, AJJ MacIntosh, JP Higham, T Furuichi, C Garcia. Honest sexual advertisements of pregnancy in female Japanese macaques (*Macaca fuscata*). *Oral*
16. **XXVth Congress of the International Primatology Society**, Hanoi, Vietnam (August 2014) L Rigaille*, JP Higham, PC Lee, C Garcia. Multimodal sexual signaling and mating behaviors in olive baboons. *Oral*
17. **XXVth Congress of the International Primatology Society**, Hanoi, Vietnam (August 2014) RS Takeshita*, FB Bercovitch, MA Huffman, K Mouri, C Garcia, L Rigaille, K Shimizu. Environmental, biological and social factors influencing fecal adrenal steroid concentrations in female Japanese macaques (*Macaca fuscata*). *Oral*
18. **International Seminar on Biodiversity and Evolution**, Kyoto, Japan (June 2014) L Rigaille*, JP Higham, PC Lee, C Garcia. Multiple sexual cues and mating strategies in captive olive baboons (*Papio anubis*). *Oral*
19. **29th Congress of the Primate Society of Japan**, Okayama, Japan (September 2013) L Rigaille*, JP Higham, PC Lee, C Garcia. Multimodal ovulatory signaling in olive baboons. *Oral*
20. **Société d'Anthropologie de Paris**, Paris, France (January 2012) L Rigaille*, JP Higham, PC Lee, C Garcia. Multimodal sexual communication and mating behaviors in olive baboons.
21. **XXIV^e Colloque de la Société Francophone de Primatologie**, Grenoble, France (October 2011) L Rigaille*, C Garcia. Signaux sexuels et comportement reproducteur chez le babouin olive. *Oral*

Research experience

- 2017 ~ .** Primate Research Institute, Kyoto University, Japan.
Saliva and photo collection on women
- 2016** Fieldwork, Primate Research Institute, Kyoto University, Japan (4 months).
Behavioural and biological data collection, experimental design, captive Japanese macaques
- 2015** Fieldwork, Primate Research Institute, Kyoto University, Japan (9 months)
Animal training & biological data collection (vaginal secretion), captive Japanese macaques
- 2014-2015** Laboratory work, Primate Research Institute, Kyoto University, Japan (6 months)
EIA hormonal assays, microscopy, digital analyses
- 2013-2014** Fieldwork, Wildlife Research Station Koshima, Kyoto University, Japan (5 months)
Behavioral, biological, and digital data collection, wild Japanese macaques
- 2011-2012** Research assistant, Primate Research Institute, Kyoto University, Japan (3 months)
Behavioral, biological, and digital data collection, captive Japanese macaques – Collaborative project between CNRS (Dr Garcia) and the Primate Research Institute (Prof Huffman, Prof. Bercovitch)
- 2010** Fieldwork, Station de Primatologie (SdP-CNRS), France (3 months)
Behavioural and digital data collection, captive olive baboons

Skills

Experimental design in captivity
 Behavioral data collection
 Biological sample collection: feces, urines, and vaginal secretions (*positive reinforcement training*)
 Enzyme Immunoassays for fecal, urinary, and salivary estrogens, progesterone, and creatinine
 Microscopic parasitological analyses of gastrointestinal parasites
 Photo analyses: Adobe Photoshop CS5, ColourWorker
 Statistics: SPSS, R environment
 Visual perception program: OpenSesame

Student supervision

Louise Ducroix: research student at KUPRI (3 months). Trained Ducroix in various techniques used in Behavioural Ecology (hormonal assays, parasitology, digital analyses, animal training).

National and International collaboration

Japan: Prof. Takeshi Furuichi, Dr Andrew JJ MacIntosh (Primate Research Institute, Kyoto University)

France: Dr Cécile Garcia, Dr Julie Duboscq (CNRS-MNHN)

UK: Prof. Joanna Setchell (Durham University), Dr Stefano Vaglio (Wolverhampton University)

USA: Dr James P Higham, Sandra Winters (New York University), Prof. Fred Bercovitch