

CV of the Researcher

Cécile Sarabian, D. Sc. – www.cecilesarabian.com

WEBSITE



PROFESSIONAL EXPERIENCE

Oct. 2023 ~ **Research Fellow, Institute for Advanced Study in Toulouse, France**
Toulouse School of Economics, Université Toulouse Capitole

Mar. - Sept. 2023 **Canon Foundation Research Fellow, Nagoya University, Japan**
Department of Cognitive & Psychological Sciences, Laboratory for Comparative Cognition & Neurobiology
Advisor: Prof. Nobuyuki Kawai

May 2022 - Jan. 2023 **Postdoctoral Research Fellow, The University of Hong Kong, China**
School of Biological Sciences, Applied Behavioural Ecology & Conservation Lab
Advisor: Dr. Hannah Mumby

Sept. 2019 - Nov. 2021 **JSPS Postdoctoral Fellow, Kyoto University, Japan**
Primate Research Institute, Language & Intelligence Section
Advisors: Dr. Ikuma Adachi, Dr. Andrew MacIntosh

EDUCATION

2015-2019 **PhD in Cognitive Ecology & Primatology, Kyoto University, Japan**
Thesis: "Exploring the origins of disgust: Evolution of parasite avoidance behaviors in primates"
Committee: Andrew MacIntosh; Takeshi Furuichi; Michael Huffman; Ikuma Adachi; invited: Valerie Curtis†
(London School of Hygiene & Tropical Medicine)

2013-2014 **MSc in Ecophysiology & Ethology, University of Strasbourg, France**
*Thesis: "In the dirt: Hygienic behaviors and revulsion for feces as parasite avoidance strategies in Japanese macaques of Koshima island" *rank: 1/23**
2012-2013 Research assistant, Kyoto University Primate Research Institute, Japan
2011-2012 1st year of MSc in Animal & Human Behavior, University of Rennes 1, France

2009-2011 **BSc in Animal Biology, University of Caen Normandy, France**
Thesis: "Cannibalism in wild chimpanzees, a literature review"
2010-2011 Exchange student, Faculty of Science & Forestry, University of Joensuu, Finland

RESEARCH PROJECTS

2023~ Parasite avoidance and hygiene among Koshima macaques revisited
Co-I; PI: Andrew MacIntosh, Khalid Mazid (Kyoto University)

2023~ Primates' cognitive & physiological responses to bats and rats as natural disease reservoirs
PI; Co-Is: Nobuyuki Kawai (Nagoya University), Ikuma Adachi (Kyoto U), Anne Laudisoit (EcoHealth Alliance)

2022 Risk perception in human-wild boar interactions and wildlife management applications in Hong Kong
PI; Co-Is: Yifu Wang, Hannah Mumby (The University of Hong Kong)

2021~ Conditioned aversion as a strategy for crop consumption mitigation in Himalayan langurs
Co-PI with Himani Nautiyal (Howard University); Co-I: Virendra Mathur (University of Toronto)

2021-2023 Molecular tracing of traded otters to monitor and combat illegal trade in Southeast Asia
Co-I; PI: Worata Klinsawat (King Mongkut's University of Technology Thonburi)
Other Co-Is: Mayako Fujihara, Miho Murayama, Akiyuki Suzuki, Vanessa Gris (Kyoto University), Marie Sigaud (CESCO-MNH), Wanlop Chutipong (King Mongkut's University of Technology Thonburi)

2021~ Attention and behavioral reactions to coprophagy in great apes
Co-I; PI: Yena Kim (Leiden University); Other Co-Is: Juan Perea Garcia, Mariska Kret (Leiden University)

2019-2021 Cognitive and physiological responses to disgust and fear elicitors in chimpanzees
PI; Co-Is: Ikuma Adachi, Andrew MacIntosh, André Gonçalves (Kyoto U), Nobuyuki Kawai (Nagoya U)

2019~ Primate community-based conservation

Co-I; PI: Victor Narat (CNRS/MNHN); Other Co-Is: Noémie Bonnin (Liverpool John Moores University), Gaspard Van Hamme (EHESS), Sarah Bortolamiol (CNRS/IPE & Ladys)

-- part of the 'French-speaking Society of Primatology' working group Primate Community-based Conservation

2019~ Exotic animal cafés and wildlife trade in Japan

Co-PI with Marie Sigaud (CESCO-MNHN); Co-I: Tomomi Kitade (WWF/TRAFFIC Japan)

2016~ Contaminated food aversion in captive Asian elephants and welfare implications

Co-PI with Nachiketha Sharma (Kyoto University); Co-I: Yena Kim (Leiden University)

2014-2019 Parasite handling strategies in non-human primates

PI; Co-Is: Andrew MacIntosh, Takeshi Furuichi (Kyoto University), Clémence Poirotte (DPZ), Marie Charpentier (CNRS/CEFE), Barthélémy Ngoubangoye (CIRMF), Raphaël Belais (Lola ya Bonobo)

PUBLICATIONS

15 peer-reviewed publications including 12 as (co-)first author. **The following publications have evolved from my doctoral dissertation:** 2, 4, 5, 7-12. Note: I prioritize open access non-profit & learned society-associated journals.

* = Corresponding author

15. [Sarabian C](#), Wilkinson A, Sigaud M, Kano F, Tobajas J, Darmaillacq A-S, Kalema-Zikusoka G, Plotnik J, MacIntosh A (2023) **Disgust in animals and the application of disease avoidance to wildlife management and conservation.** *Journal of Animal Ecology* 92(8): 1489-1508

-- part of the special issue: *Contemporary Methods for Studying Animal Sociality in the Wild (invited)*

14. Sigaud M, Kitade T, [Sarabian C](#) (2023) **Exotic animal cafés in Japan: a new fashion with potential implications for biodiversity, global health and animal welfare.** *Conservation Science & Practice* e12867

13. Twining-Ward C, Ramos-Luna J, Back J, Barakagwira J, Cesar Bicca-Marques J, Chanvin M, Diko N, Duboscq J, Fan P, Galán-Acedo C, Gogarten J, Guo S, Guzman-Caro D, Hou R, Kalbitzer U, Kaplin B, Lee S, Mekonnen A, Mungongo P, Nautiyal H, Omeja P, Ramananjato V, Razafindratsima O, [Sarabian C](#), Sarkar D, Serio-Silva J, Yanti R, Chapman C (2022) **Social media's potential to promote conservation at the local level: An assessment in eleven primate range countries.** *Folia Primatologica* 1: 1-11

12. [Sarabian C](#), Belais R, MacIntosh A (2021) **Avoidance of contaminated food correlates with low protozoan infection in bonobos.** *Frontiers in Ecology & Evolution* 9: 651159

-- part of the special issue: *Ecology and Evolution of Non-Consumptive Effects in Host-Parasite Interactions (invited)*

11. [Sarabian C](#), Ngoubangoye B, MacIntosh A (2020) **Divergent strategies in faeces avoidance between two cercopithecoid primates.** *Royal Society Open Science* 7(3): 191861

10. Poirotte C*, [Sarabian C](#)*, Ngoubangoye B, MacIntosh A**, Charpentier M** (2019) **Faecal avoidance differs between the sexes but not with nematode infection risk in mandrills.** *Animal Behaviour* 149: 97-106

9. [Sarabian C](#), Curtis V, McMullan R (2018) **Evolution of pathogen and parasite avoidance behaviours.** *Philosophical Transactions of the Royal Society B* 373(1751): 20170256

-- part of the special issue: *Evolution of pathogen and parasite avoidance behaviours (co-edited)*

8. [Sarabian C](#), Belais R, MacIntosh A (2018) **Feeding decisions under contamination risk in bonobos.** *Philosophical Transactions of the Royal Society B* 373(1751): 20170195

-- part of the special issue: *Evolution of pathogen and parasite avoidance behaviours (co-edited)*

7. [Sarabian C](#), Ngoubangoye B, MacIntosh A (2017) **Avoidance of biological contaminants through sight, smell and touch in chimpanzees.** *Royal Society Open Science* 4(11): 170968

6. Romano V, Duboscq J, [Sarabian C](#), Thomas E, Sueur C, MacIntosh A (2016) **Modeling infection transmission in primate networks to predict centrality-based risk.** *American Journal of Primatology* 78(3): 22542

5. Sarabian C, MacIntosh A (2015) **Hygienic tendencies correlate with low geohelminth infection in free-ranging macaques.** *Biology Letters* 11(11): 20150757

----- **Book Chapters** -----

4. Sarabian C (In Press) **Les origines du dégoût : Évitement du risque infectieux par les sens chez les primates** [*The origins of disgust: Sensory avoidance of infection risk in primates*]. In Battesti V & Candau J « Apprendre des sens, apprendre par les sens : anthropologie des perceptions sensorielles [*Learning from the senses, learning through the senses: Anthropology of sensory perceptions*] » **Éditions PETRA**, Paris

3. Sarabian C (2017) **Répartition géographique et éthologie de l'Ours** [*Geographical distribution and ethology of bears*]. In Hoffmann-Schickel K, Le Roux P, Navet E « Sous la peau de l'Ours, L'humanité et les ursidés : approche interdisciplinaire [*Under the skin of bear, humanity and bears: interdisciplinary approach*]» **Connaissances et Savoirs**, Paris

----- **PhD Thesis** -----

2. Sarabian C (2019) **Exploring the origins of disgust: Evolution of parasite avoidance behaviors in primates.** **Kyoto University**, Kyoto, Japan, 149pp. (accessible via KURENAI)

----- **Position Paper** -----

1. **Hong Kong Wildlife Trade Working Group** (2022) **Position paper on the live exotic animal pet trade.** **ADM Capital Foundation**. Hong Kong, Hong Kong SAR (accessible online)

PRESENTATIONS

98 presentations (82 as lead author) at international/domestic conferences including **4 invited plenary & keynotes** leading to **4 awards**; 29 invited lectures/seminars and **10 outreach in recreative settings**; see website

----- **Selected Conference Presentations** -----

Sarabian C (2023) Aux origines du dégoût : Perception & évitement du risque infectieux chez les primates. RESHAPE working group annual meeting, **Marseille, France**

Sarabian C, Laudisoit A (2022) Cascading effects of forest fragmentation on species interaction webs: Hints from DR Congo. British Ecological Society Annual Meeting, **Edinburgh, United Kingdom** -- part of the co-organized symposium: *Human-wildlife interactions in the Global South*

Sarabian C, Kim Y, Sharma N (2022) Contaminated food aversion in captive Asian elephants. International **Elephant Conservation & Research Symposium**, Virtual (Online)

Sarabian C, MacIntosh A, Adachi I (2021) Exploring the effects of disgust-related images on cognition in chimpanzees. CogSci 2021 Comparative Cognition - Animal Minds, **Vienna, Austria** (Online poster)

Sarabian C, Plotnik J, Curtis V, Chapman C, MacIntosh A (2019) Conservation through disgust and public health: Introducing a new framework. International Congress for Conservation Biology (ICCB), **Kuala Lumpur, Malaysia**

Sarabian C, Belais R, MacIntosh A (2018) Feeding decisions under contamination risk in bonobos. 27th International Primatological Society Congress, **Nairobi, Kenya**

Sarabian C, MacIntosh A (2016) A primate's sense of cleanliness: perspectives from *Papionini* and *Hominini*. Congress of the International Primatological Society, **Chicago, United States**

Sarabian C, MacIntosh A (2014) Hygienic behaviors and revulsion as parasite avoidance adaptations in Japanese macaques. International Primatological Society Congress, **Hanoi, Vietnam** (Poster)

----- **Invited Plenary & Keynotes** -----

Sarabian C (2020) Yuck! Behavioral immunity and potential conservation applications. The Association for the Study of Animal Behaviour (ASAB) Virtual Conference (theme: "How do pathogens and parasites affect behaviour?"), **London, United Kingdom** [*Plenary*]

Sarabian C (2019) Avoidance of biological contaminants in social primates. The Cognition, Behavior, Evolution & Network Conference (theme: "The costs and benefits of sociality"), **Amsterdam, the Netherlands** [*Keynote*]

Sarabian C (2019) Avoidance of biological contaminants in non-human primates. The 26th Annual PNIRS and GEBIN Scientific Meeting (member-sponsored symposium: "Disease avoidance: our first line of defense against pathogenic threats"), **Berlin, Germany** [*Keynote*]

Sarabian C (2017) A primate's sense of cleanliness: perspectives from *Papionini* and *Hominini*. Royal Society Theo Murphy International Scientific Meeting (“Evolution of parasite and pathogen avoidance behaviours”), Buckinghamshire, United Kingdom [*Keynote*] -- co-organized scientific meeting

----- Invited Lectures & Seminars -----

International Wildlife Rehabilitation Council *USA*; Stirling University *UK*; University of Nîmes *France*; Leiden University *the Netherlands*; Muséum National d’Histoire Naturelle *France*; The University of Hong Kong *China*; EcoHealth Alliance *USA*; Max Planck Institute of Animal Behavior *Germany*; European Federation of Primatology *the Netherlands*; Kyoto University *Japan*; Maison Franco-Japonaise *Japan*; Dartmouth College *USA*; Robert Koch Institute *Germany*; Max Planck Institute for Evolutionary Anthropology *Germany*; German Primate Center *Germany*; University of Strasbourg *France*; Musée de l’Homme *France*; University of Oxford *UK*; University of California Davis *USA*; University of Kinshasa *DRCongo*; Lola ya Bonobo Sanctuary *DRCongo*; National Institute of Ecology *South Korea*; Centre International de Recherches Médicales de Franceville *Gabon*; Ngamba Island Chimpanzee Sanctuary *Uganda*; CNRS Station of Primatology *France*

----- Outreach -----

Maison des Ceriseaux *France*; Exploring by the seat of your pants *Canada* (virtual); Gifu Kamo High School *Japan*; Inuyama Nerds *Japan*; Nerd Nite Kansai *Japan*; Biodiversity Foundation *South Korea*; Kalinzu Forest Education Center *Uganda*; Pierre Hilly Primary School *France*

CO-ORGANIZATION OF INTERNATIONAL CONFERENCES & SYMPOSIUMS

4. “Human-wildlife interactions in the Global South: A lens to navigate, assess and address ecological challenges”, symposium at **British Ecological Society Meeting**, Edinburgh, United Kingdom (2022)
3. “(Anthropo)zoonotic disease risk to primates in fragmenting ed landscapes”, symposium at the **International Congress for Conservation Biology**, Kigali, Rwanda (2021)
2. Roundtable between Kyoto University and CNRS researchers, **Musée de l’Homme**, Paris, France (2018)
1. “Evolution of pathogen and parasite avoidance behaviours”, **Royal Society Theo Murphy International Scientific Meeting**, Buckinghamshire, United Kingdom (2017) – which led to a special issue in *Phil. Trans. B*

TRANS-CONTINENTAL RESEARCH EXPERIENCE

Hong Kong, **China** (2022; 7mo); Primate Research Institute/Center for the Evolutionary Origins of Human Behavior/Nagoya University, **Japan** (2013-2023; 6y); Wamba, **DRCongo** (2018; 5mo); Lola ya Bonobo Sanctuary, **DRCongo** (2016; 3mo); CIRMF, **Gabon** (2015; 4mo); Koshima island, **Japan** (2012-2014; 14mo); Hellabrunn Zoo, **Germany** (2012; 2mo); CNRS Station of Primatology, **France** (2012; 2mo); Help Congo, **Congo** (2010; 2mo)

PARTICIPATION IN INDUSTRIAL INNOVATION

2020 WildPic: a mobile camera application (based on disgust) that will make you keep an appropriate distance with wildlife. Conservation X Labs challenge (PI); not funded. Currently under discussion for funding by Wildlife Conservation Network and *Develop for Good*

AWARDS, PRIZES & FUNDING

>€ 330,000 from organizations, companies and governments in Europe, Japan, India and Hong Kong

2023-2026 Institute for Advanced Study in Toulouse, Research Fellowship – €126,000 (10% success rate)

2023 Marie Skłodowska-Curie, Postdoctoral Fellowship (Seal of Excellence)

2023 Canon Foundation in Europe, Research Fellowship – € 13,400 (10% success rate)

2022 The University of Hong Kong, Travel Grant – € 2,100

2021-2022 INLAKS India Foundation, Small Grant (Co-I) – € 2,600

2021-2022 Japan-ASEAN Science, Technology and Innovation Platform, Research Grant (Co-I) – € 5,000

2019-2021 Japan Society for the Promotion of Science, Postdoctoral Fellowship – € 63,000 (10% success rate)

2017-2019 Japan Society for the Promotion of Science, Doctoral Fellowship – € 56,000 (**10% success rate**)
 2017 The Royal Society, Travel Grant – € 1,000
 2017 Oral Presentation Award. International Symposium on Primatology and Wildlife Science, Inuyama
 2015-2018 Leading Graduate Program in Primatology and Wildlife Science – **Ad-libitum** (fieldwork, conferences)
 2015-2018 MEXT Japan, Doctoral Fellowship – € 36,000 (**25% success rate**; declined last year to accept JSPS)
 2014, 2015 Best Poster Awards (three times). International Symposium on Primatology and Wildlife Science
 2014 University of Strasbourg, “Unistra” Scholarship, France – € 750
 2014 Region of Alsace, “Boussole” Scholarship, France – € 1,000
 2014 Montbell, Sponsorship, Japan – Outdoor gear equipment worth € 1,000
 2013 Cooperative Research Grant, Kyoto University Primate Research Institute, Japan – € 500
 2012-2013 Fondation Rennes 1, “Cesure+” Scholarship, France – € 2,500 (**among the first awardees**)
 2010-2011 European Union, Erasmus Mundus Scholarship, Brussels, Belgium – € 3,700

MENTORING & TEACHING

2023~ Khalid Mazid (PhD student, Kyoto University). Hygiene in non-human primates revisited
 2022~ Sagarika Phalke (PhD student, The University of Hong Kong – HKU). Cognitive bias in Asian elephants
 2022 Chan Chung Hei (FYP student, HKU). Farmers’ interest in novel wild boar deterrence methods
 2022~ Sanjana Kadam (PhD student, Kyoto University). The impact of negative emotions on chimpanzee cognition.
 2021~ Virendra Mathur (PhD student, University of Toronto) Testing adaptive crop-deterrent methods with langurs in an Himalayan modified landscape
 2019-2021 Saein Lee (PhD candidate, Ewha Womans University, South Korea) Responses to novel food in captive Hamadryas baboons: The role of sensory cues
 2022 Guest lecturer (2h), Foundations of Human Knowledge course, HKU, Hong Kong
 2020 Guest lecturer (1h), Exotic Sensory Systems, Dartmouth College, United States
 2020 Interviewer (1h), CICASP Science communication workshop, Kyoto University, Japan
 2015, 2017, 2020 Teaching assistant (8h), Conservation Biology, Kyoto University, Japan

SCIENCE COMMUNICATION

----- Conservation Education Initiatives -----

2015-2021 Conserv’Session: *collective of students and postdocs organizing screenings of conservation-/environment-/animal welfare-related documentaries and/or discussion between the public and invited experts to reflect on these issues*, Kyoto and Inuyama, Japan (**co-founder and facilitator**)
 2014-2021 Conservation Voices for The PrimateCast: *a podcast series dedicated to animal conservation*, Inuyama, Japan (**host and co-producer**)
 2013-2019 Roots & Shoots Iran: *The Jane Goodall Institute education and environmental awareness program* (**founder of the first group in Iran & overseas coordinator**)

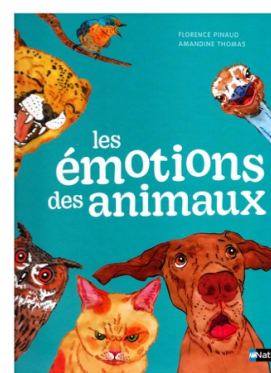
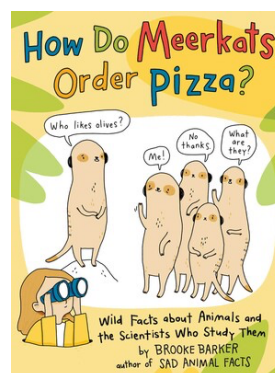
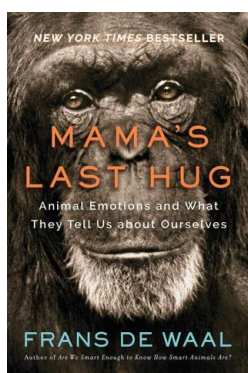
----- Popular Articles (as writer) -----

2023 Disease risk perception in animals and potential applications. *Animal Ecology in Focus* (EN, FR)
 2018 A sense of disgust in bonobos? *EurekAlert!, AAAS*
 2017 What grosses out a chimpanzee? *EurekAlert!, AAAS*
 2017 In the dirt: do primates yuck? *The Ethogram*

----- Media Experience (as interviewee/reference) -----

2023 Children’s book on animals’ emotions (“Les émotions des animaux”) by Florence Pinaud
 2023 Window closing on animal cafes due to health and welfare risks? *Asahi Shimbun*
 2023 Facing extinction, but available for selfies in Japan's animal cafés. *The New York Times*
 2023 A 'distinctly human' trait that might actually be universal. *The Atlantic*
 2022 How do meerkats order pizza? Wild facts about animals and the scientists who study them by Brooke Barker
 2022 The great adventure of taste (“La grande aventure du goût”). *Le Monde de Jamy*, France 3 ~1M TV viewers
 2022 Animals disgusted too? (“Walgen dieren ook afkeer?”). *Quest*
 2022 Animals are also disgusted by bad odors (“Walgen dieren ook van vieze geuren?”). *De Standaard*
 2022 Interview on disgust with Alison George. *New Scientist*
 2021 Sayonara, Cécile! (some reflections about studying the origins of disgust at KUPRI). *The PrimateCast* (#59)
 2021 Children’s book on animal emotions, chapter on disgust (“Ik voel ik voel wat jij niet ziet”) by Lotte Stegeman

- 2021 The evolution of disgust and hygiene, and conservation. *The Dissenter* (#511), YouTube **724 views**
- 2021 Ever feel your skin crawling? Maybe you can thank evolution. *The New York Times*
- 2021 Do not read this at lunch. *The Atlantic*
- 2021 Immune cells are more paranoid than we thought. *The Atlantic*
- 2021 The mere sight of illness may kick-start a canary's immune system. *Science News*
- 2021 The Entertainer. *Who shat on the floor at my wedding?* (Podcast; Episode 8)
- 2020 Giant pandas may roll in horse poop to feel warm. *Science News*
- 2020 That's disgusting: how primates decide what not to eat. *Research Outreach*
- 2020 What makes gross things gross? *Brains On!* Science show for curious kids (and adults)
- 2019 Mama's last hug: Animal emotions and what they tell us about ourselves. **NYT bestseller** by Frans de Waal
- 2018 The origins of disgust. *MindField*, VSauce, YouTube **973,000 views**
- 2018 Why humans feel disgust, and why other animals might too. *SciShow*, YouTube **120,000 views**
- 2018 Fastidious apes turn up their noses at filthy food. *Nature*
- 2017 What disgusts chimpanzees? The same as us ("O que causa nojo aos chimpanzés? O mesmo que a nós"). *Público*
- 2017 Is disgust a universal emotion? *The Wire*
- 2015 Monkeys keep their food clean, sort of. *Discover*
- 2013 The macaques of Koshima ("Les macaques de l'île de Koshima"). *Allô la Planète*, Le Mouv', Radio France



EDITORIAL SERVICES

Guest Editor: Philosophical Transactions of the Royal Society B

-- In 2018, I co-edited with Dr. Rachel McMullan (The Open University) the above-mentioned special issue

Ad-Hoc Reviewer: Animal Behaviour, Animals, Behavioral Ecology & Sociobiology, Behaviour, Behavioural Processes, Biology, Biology Letters, Conservation Biology, Current Zoology, Diversity, EcoHealth, Environmental Science & Technology, Evolution and Human Behavior, Frontiers in Conservation Science, Frontiers in Veterinary Science, Functional Ecology, International Journal of Primatology, Journal of Experimental Biology, Methods in Ecology & Evolution, Nature Communications, Oikos, Parasitology, PeerJ, Philosophical Transactions of the Royal Society B, PLoS One, Primates, Proceedings of the Royal Society B