

## CONTACT INFORMATION

Center for International Collaboration and  
Advanced Studies in Primatology (CICASP)  
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URL2: [www.macintoshlab.com](http://www.macintoshlab.com)

## EMPLOYMENT HISTORY

2017~ Associate Professor, Kyoto University Primate Research Institute  
2014~2017 Program Associate Professor, Kyoto University Wildlife Research Center and CICASP  
2012–2014 Program Assistant Professor, CICASP  
2011–2012 Research Associate (Postdoc), CICASP  
2010–2011 Research Fellow (Postdoc), Department of Ecology and Social Behaviour

## EDUCATION HISTORY

2007–2010 Primate Research Institute, Kyoto University (Doctor of Science, DSc)  
2000–2002 Department of Anthropology, University of Calgary (Master of Arts, MA)  
1997–2000 Department of Anthropology, University of Calgary (Bachelor of Science, BSc)

## AWARDS & SCHOLARSHIPS

2013 Takashima Prize, Primate Society of Japan & Kyouei Steel Co. (research excellence)  
2013 Primates most-cited paper award, Japan Monkey Center, Primate Society of Japan, Springer  
2007 DSc scholarship: Ministry of Education, Culture, Sports, Science and Technology (MEXT)  
Monbukagakusho scholarship, Japan, 150,000 yen/month (ca. 1,500 USD) \* 3.5 years  
2001 MA scholarship: Province of Alberta Graduate Scholarship (PAGS), Canada, 12,000 CAD

## RESEARCH KEYWORDS

• behavioural ecology • behavioural organization • social and ecological networks • parasite/disease ecology •  
wildlife epidemiology • health and conservation • biostatistics • complexity science/theory (biological fractals)

## RESEARCH GRANTS

2020 Japan Society for the Promotion of Science (JSPS) Grant-in-Aid for Scientific Research B, Japan,  
~17,000,000JPY (ca. 160,000 USD) #20H03333 [4 years]  
2019 JSPS bilateral grant Japan/Czech (PI: Klara Petrzalkova, Czech Academy of Science & Keiko Matsuura,  
Oita University) [2 years]  
2018 JSPS Grant-in-Aid for Scientific Research C, Japan (PI: Naoki Agetsuma, Hokkaido University) [3 years]  
2016 JSPS Grant-in-Aid for Young Scientists A, Japan, 16,200,000 JPY (ca. 150,000 USD) #16H06181 [4 years]  
2015 Kyoto University Step Up Grant, Japan, 1,600,000 JPY (ca. 13,000 USD) [1 year]  
2014 JSPS 'Sakura' grant Japan/France (PI: Akinori Takahashi, National Institute of Polar Research) [2 years]  
2012 JSPS Grant-in-Aid for Young Scientists B, Japan, 3,500,000 JPY (ca. 35,000 USD) #24770232 [3 years]  
2012 JSPS Research Exchange Grant, Japan/France, 575,000 JPY (ca. 7,000 USD) [1 year]

## INVITED LECTURES/SEMINARS

- 2020 Show me chaos! Measuring organizational complexity through fractal time series analysis of behavior sequences in indicator species. International Bio-logging Society Webinar – Approaches to Modeling Bio-logging Data. Online
- 2019 (1) Show me chaos! Fractal time in animal behavior as a bioindicator of ecological challenge; (2) Behavioral ecology and epidemiology of gastrointestinal parasitism in primates: patterns, processes and host responses (Czech Academy of Sciences, Czechia)
- 2017 *Monkeys in the middle: sociality and parasitism in a primate-helminth model system* (Primateology and Evolutionary Anthropology Young Scholars Forum, Sun Yat Sen University, Guangzhou, China)
- 2017 *Parasites and primate social systems evolution* (SoHaPi Workshop, German Primate Center (DPZ), Gottingen, Germany)
- 2016 (1) Project l'AMMER: Adélie Penguins as Monitors of the Marine Environment; (2) The Wormy World of Primates: Vignettes from an Empirical Model System in Japan (National Institute of Ecology, South Korea)
- 2013 *Complexity lost: assessing behavioural organization in stress and disease* (Central European Institute of Technology mini-symposium and HPI-lab workshop, University of Veterinary and Pharmaceutical Sciences Brno, Czech Republic)
- 2013 *The complex primate: interdisciplinary science and the math behind the monkey* (Takashima Prize Lecture at the 29<sup>th</sup> Congress of the Primate Society of Japan, Okayama)
- 2013 Epidemiology of nematode parasite infection among wild Japanese macaques: heterogeneity in the external and internal environments (Symposium: "Ecological Roles of Primates in Forest Ecosystems", KUPRI, Japan)
- 2012 A fractal ethos for ethology: revealing behavioural stereotypes in stress and disease (German Primate Center (DPZ) Kolloquium Series, Gottingen, Germany)

## TEACHING

- 2017~ Lecturer: Conservation Biology, Zoo Biology, Comparative Cognition, Kyoto University
- 2014~ Lecturer: *Animal Behavior*, Kyoto University
- 2016~ Instructor (field school): *Yakushima Field and Genome Science Training Course*, Kyoto University [semi-annual]
- 2011~ Instructor: *CICASP Seminar in Science Communication*, KUPRI [ongoing weekly]
- 2011 Instructor (field school): Formation of a strategic base for biodiversity & evolutionary research: from genome to ecosystem (Japan), Kyoto University Global COE Program
- 2003 Instructor: *English as a Foreign Language* (EFL), Tokyo, Japan [3 years]
- 2001 Teaching Assistant (field school): *Field Primatology* (Ghana), University of Calgary
- 2001 Teaching Assistant: *Primate Behaviour*, University of Calgary
- 2000 Teaching Assistant: *Introduction to Social and Cultural Anthropology*, University of Calgary

## GRADUATE STUDENTS & POSTDOCTORAL FELLOWS SUPERVISED

- 2019~ JSPS Postdoctoral Fellow: Cecile Sarabian ("Cognitive and physiological responses to disgust elicitors in chimpanzees")
- 2019~ Doctoral Student: Kenneth Keuk ("*Networks, uncertainty and epidemiology*")
- 2019~ Master's Student: Abdullah Langgeng ("*Investigating the effects of hot spring bathing on parasitism and gut bacterial communities in a nonhuman primate*"; Kyoto University, Japan)
- 2018~ Master's Student: Zhihong Xu ("*Linking social interactions with parasitism in complete and incomplete networks*"; Kyoto University, Japan)
- 2018~ JSPS Postdoctoral Fellow: Marie Sigaud ("*Measuring fitness costs of habitat degradation in an endangered primate*"; Kyoto University, Japan)

- 2017~ JSPS Postdoctoral Fellow: Barbora Kubenova ("Infant handling and social integration of infants and juveniles in wild Japanese macaques"; Kyoto University, Japan)
- 2017~2019 JSPS Postdoctoral Fellow: Valeria Romano ("Understanding the link between environmental pressures, sociality and health"; Kyoto University, Japan)
- 2016~2018 JSPS Postdoctoral Fellow: Julie Duboscq ("Connecting the dots: linking host behavior to parasite transmission and infection risk"; Kyoto University, Japan)
- 2016 Master's Student: Kenneth Keuk ("Social networks, social style and the dynamics of parasite infection")
- 2015~2019 Doctoral Student: Liesbeth Frias ("Host-Parasite Systems Dynamics in Human-Modified Habitats"; Kyoto University, Japan)
- 2015~2019 Doctoral Student: Cecile Sarabian ("The Origins of Hygiene: Infection-risk Avoidance in Papionini and Hominidae"; Kyoto University, Japan)
- 2015~2017 Graduate Student: Kelly Finn ("Complexity as a new frontier in primate behavior, ecology and cognition"; University of California at Davis, USA)
- 2013~2016 Doctoral Student: Xavier Meyer ("Does complexity in behavioral organization allow seabirds to adapt to changes in their environment?"; University of Strasbourg, France)
- 2013~2017 Doctoral Student: Valeria Romano de Paula ("Primate Social Networks as a Trade-off between Information and Disease Transmission"; University of Strasbourg, France)
- 2013~2018 Doctoral Student: Jade Burgunder ("Complexity in Behavioral Organization: a Novel Approach to Assessing Clinical Outcomes of Parasitic Diseases"; Masaryk University, Czech Republic)
- 2013~2015 Postdoctoral Fellow: Julie Duboscq ("Social networks as a trade-off between optimal decision-making, information transmission and reduced disease transmission"; University of Strasbourg Institute for Advanced Studies, France)
- 2013 Master's student: Elodie Thomas ("Influence of Nematode Parasites on Stress among Koshima Macaques, *Macaca fuscata*"; University of Toulouse, France)
- 2012~2014 Master's student: Cecile Sarabian ("Hygienic Tendencies Constrain Geohelminth Infection in Free-ranging Macaques"; Rennes 1 University, France)

## SCIENTIFIC EDUCATION AND OUTREACH

- 2012~ The PrimateCast – a podcast series dedicated to the study and conservation of primates (host, producer) [www.theprimatecast.com](http://www.theprimatecast.com); [www.cicasp.pri.kyoto-u.ac.jp/news/podcasts](http://www.cicasp.pri.kyoto-u.ac.jp/news/podcasts)
- 2011 Public Lecture: *Of worms and monkeys: the secret struggle for health in the wild* ("Yakushima Kenkyuu Koza", co-hosted by the Kyoto University Global COE Program and The Yakushima Environmental Culture Foundation, Japan) (in Japanese)

## OTHER PROFESSIONAL EXPERIENCE

Editorial Assignments: *Frontiers in Ecology and Evolution* (2019~), *Primates* (Advisory Board: 2017~), *EcoHealth* (2016~), *Scientific Reports* (2015~), *Primate Research* (2015~)

ad hoc reviewer: *Mol Ecol Resources*, *EcoHealth*, *PNAS*, *Phil. Trans. R. Soc. B. Biol. Sci.*, *Proc. R. Soc. B. Biol. Sci.*, *Anim. Behav.*, *Am. J. Primatol.*, *Int. J. Primatol.*, *Primates*, *Ethology*, *Behav. Proc.*, *PLoS ONE*, *Peer J*, *Int. J. Parasitol.*, *Integr. Zool.*, *Am. Soc. Trop. Med. Hyg.*, *Folia Primatol.*, National Science Foundation (USA), Oxford University Press, The Leakey Foundation, Nat Geo Society, Ranger Rick

Symposium Organization: *10 years of CICASP: making an impact within and beyond Academia in a global community*, 12<sup>th</sup> International Symposium on Primatology and Wildlife Science (September, 2019); *Penguins, in Full Color*, 10<sup>th</sup> International Symposium on Primatology and Wildlife Science (September, 2018)

## PUBLICATIONS

Refereed Journal Articles: 49

Book Chapters: 10

Google Scholar: <http://scholar.google.co.jp/citations?user=zCPdEMoAAAAJ&hl=en>

## JOURNAL ARTICLES

\*These authors contributed equally to this work

†Invited Paper

1. Beltran Frances V, Castellano-Navarro A, Maulany RI, Ngakan PO, MacIntosh AJJ, Llorente M, Amici F (Accepted) Play behavior in immature moor macaques (*Macaca maura*) and Japanese macaques (*Macaca fuscata*). *Amer J Primatol*
2. Romano V, MacIntosh AJJ, Sueur C (2020) Stemming the flow: information, infection, and social evolution. *Trends in Ecology and Evolution* DOI: 10.1016/j.tree.2020.07.004
3. Miyabe-Nishiwaki T, Miwa M, Konoike N, Kaneko A, Ishigami A, Natsume T, MacIntosh AJJ, Nakamura K (2020) Evaluation of anaesthetic and cardiorespiratory effects after intramuscular administration of alfaxalone alone, alfaxalone-ketamine and alfaxalone-butorphanol-medetomidine in common marmosets (*Callithrix jacchus*). *J Med Primatol* DOI: 10.1111/jmp.12482
4. Meyer X, MacIntosh AJJ, Chiaradia A, Kato A, Ramirez F, Sueur C, Ropert-Coudert Y (2020) Oceanic thermal structure mediates dive sequences in a foraging seabird. *Ecol and Evol* DOI: 10.1002/ece3.6393
5. Sarabian C, Ngoubangoye B, MacIntosh AJJ (2020) Divergent strategies in faeces avoidance between two cercopithecoid primates. *R Soc Open Sci* 7: 191861.
6. Tasdemir D, MacIntosh AJJ, Stergiou P, Kaiser M, Mansour N, Bickle Q, Huffman MA (2020) Antiprotozoal and antihelminthic properties of plants ingested by wild Japanese macaques (*Macaca fuscata yakui*) in Yakushima Island. *J Ethnopharmacol* 247:112270
7. Romano V, MacIntosh AJJ, Sueur C (2020) The trade-off between information and pathogen transmission in animal societies. *EcoEvoRxiv Preprints* DOI: 10.32942/osf.io/vqt4g
8. Hasegawa H, Frias L, Peter S, Hasan NH, Stark D, Salgado-Lyn M, Sipangkui S, Goossens B, Matsuura K, Okamoto M, MacIntosh AJJ (2020) First description of male worms of *Enterobius* (*Colobenterobius serratus*) (Nematoda: Oxyuridae), the pinworm parasite of proboscis monkeys. *Zootaxa* 4722 (3): 287–294
9. Miyabe-Nishiwaki T, MacIntosh AJJ, Kaneko A, Morimoto M, Suzuki J, Akari H, Okamoto M (2019) Hematological and blood chemistry values in captive Japanese macaques (*Macaca fuscata fuscata*). *J Med Primatol* 48:338–350
10. Frias L, Stark DJ, Salgado Lynn M, Nathan S, Goossens B, Okamoto M, MacIntosh AJJ (2019) Molecular characterization of nodule worm in a community of Bornean primates. *Ecology and Evolution* 9:3937-3945
11. Poirotte C\*, Sarabian C\*, Ngoubangoye B, MacIntosh AJJ, Charpentier M (2019) Faecal avoidance differs across sexes but not with nematode infection-risk in mandrills. *Anim Behav* 149:97-106
12. Frias L, Hasegawa H, Stark DJ, Salgado-Lynn M, Nathan KSS Senthilvel, Chua T, Goossens B, Okamoto M, MacIntosh AJJ (2018) A pinworm's tale: the evolutionary history of *Lemuricola* (*Protenterobius*) *nycticebi*. *Int J Parasitol: Parasites & Wildlife*. 8:25-32
13. Le Guen C, Kato A, Raymond B, Barbraud C, Beaulieu M, Bost, C-A, Delord K, MacIntosh AJJ, Meyer X, Raclot T, Sumner M, Takahashi A, Thiebot J-B, Ropert-Coudert Y (2018) Reproductive performance and foraging behaviour share a common sea-ice concentration optimum in Adélie penguins (*Pygoscelis adeliae*). *Global Change Biol* 24:5304–5317
14. Romano V, Shen M, Pansanel J, MacIntosh AJJ, Sueur C (2018) Social transmission in networks: global efficiency peaks with intermediate levels of modularity. *Behav Ecol Sociobiol* 72:154
15. Burgunder J, Petrzalkova KJ, Modry D, Kato A, MacIntosh AJJ (2018) Fractal measures in activity patterns: do gastrointestinal parasites affect the complexity of sheep behaviour? *Appl Anim Behav Sci* 205:44-53
16. Sarabian C, Belais R, MacIntosh AJJ (2018) Feeding decisions under contamination risk in bonobos. *Phil Trans B* 373: 20170195

17. Frias L, Stark DJ, Salgado Lynn M, Nathan SKSS, Goossens B, Okamoto M, [MacIntosh AJJ](#) (2018) Lurking in the dark: Cryptic *Strongyloides* in a Bornean slow loris. *Int J Parasitol: Parasites & Wildlife* 7:141-146.
18. Sarabian C, Ngoubangoye B, [MacIntosh AJJ](#) (2017) Avoidance of biological contaminants through sight, smell and touch in chimpanzees. *R Soc Open Sci* 4:170968
19. Balasubramaniam KN, Beisner BA, Berman CM, De Marco A, Duboscq J, Koirala S, Majolo B, [MacIntosh AJ](#), McFarland R, Molesti S, Ogawa H, Petit O, Schino G, Sosa S, Sueur C, Thierry B, de Waal FBM, and McCowan B (2017) The influence of phylogeny, social style, and sociodemographic factors on macaque social network structure. *Am J Primatol* 80(1):e22727
20. Duboscq J, Romano V, Sueur C, [MacIntosh AJJ](#) (2017) One step at a time in investigating relationships between self-directed behaviours and parasitological, social and environmental variables. *R Soc Open Sci* 4:170461
21. Meyer X, [MacIntosh AJJ](#), Chiaradia A, Kato A, Mattern T, Sueur C, Ropert-Coudert Y (2017) Shallow divers, deep waters, and the rise of behavioural stochasticity. *Mar Biol* 164:149
22. Burgunder J, Hashimoto C, Modry D, Kalousova B, Petrzekova K, [MacIntosh AJJ](#) (2017) Complexity in behavioural organisation and strongylid infection among wild chimpanzees. *Anim Behaviour* 129:257-268
23. Duboscq J, Romano V, Sueur C, [MacIntosh AJJ](#) (2016) Scratch that itch: revisiting links between self-directed behaviour and parasitological, social and environmental factors in a free-ranging primate. *R Soc Open Science* 3:160571
24. Rigail L, [MacIntosh AJJ](#), Higham JP, Winters S, Shimizu K, Mouri K, Suzumura T, Furuichi T, Garcia C (2016) Testing for links between face color and age, dominance status, parity, weight, and intestinal nematode infection in a sample of female Japanese macaques. *Primates* 58:83-91
25. Duboscq J, Romano V, [MacIntosh A](#), Sueur C (2016) Social information transmission in animals: Lessons from studies of diffusion. *Front Psych* 7:1147
26. Romano V, Duboscq J, Sueur C, [MacIntosh AJJ](#) (2016) Modelling infection transmission in primate networks to predict centrality-based risk. *Am J Primatol* 78:767–779
27. Duboscq J, Romano V, Sueur C, [MacIntosh AJJ](#) (2016) Network centrality and seasonality interact to predict lice load in a social primate. *Sci Rep* 6:22095
28. Sarabian C, [MacIntosh AJJ](#) (2015) Hygienic tendencies correlate with low geohelminth infection in free-ranging macaques. *Biol Lett* 11:20150757
29. [MacIntosh AJJ](#) (2015) At the edge of chaos – error tolerance and the maintenance of Levy statistics in animal movement: Comment on “Liberating Lévy walk research from the shackles of optimal foraging” by A.M. Reynolds. *Phys Life Rev* 14:105–107
30. Reynolds AM, Ropert-Coudert Y, Kato A, Chiaradia A, [MacIntosh AJJ](#) (2015) A priority-based queuing process explanation for scale-free foraging behaviours. *Anim Behav* 108:67-71
31. Meyer X\*, [MacIntosh AJJ\\*](#), Kato A, Chiaradia A, Ropert-Coudert Y (2015) Hydrodynamic handicaps and organizational complexity in the foraging behavior of two free-ranging penguin species. *Anim Biotel* 3:25
32. Rigail LR, [MacIntosh AJJ](#), Higham JP, Winters S, Shimizu K, Mouri K, Furuichi T, Garcia C (2015) Multimodal advertisement of pregnancy in free-ranging female Japanese macaques (*Macaca fuscata*). *PLoS ONE* 10(8): e0135127
33. Ropert-Coudert Y, Kato A, Meyer X, Pellé M, [MacIntosh AJJ](#), Angelier F, Chastel O, Widmann M, Arthur B, Raymond B, Raclot T (2015) A complete breeding failure in an Adélie penguin colony correlates with unusual, extreme environmental events. *Ecography* 38:111-113
34. [MacIntosh AJJ](#) (2014) The fractal primate: interdisciplinary science and the math behind the monkey. *Pri Res* 30:95-119
35. [MacIntosh AJJ](#) (2014) Ecology and epidemiology of nematode infection in Japanese macaques: building an empirical model. *Pri Res* 30:23-51
36. Pasquretta C, Levé M, Claidière N, van de Waal E, Whiten A, [MacIntosh AJJ](#), Pelé M, Borgeaud C, Brosnan S, Crofoot M, Fedigan L, Fichtel C, Hopper L, Mareno MC, Petit O, Schnoell AV, di Sorrentino EP, Thierry B, Tiddi B, Sueur C (2014) Social networks in primates: smart and tolerant species have more efficient networks. *Sci Rep* 4:7600

37. Hill DA, Fukui D, Agetsuma N, [MacIntosh AJJ](#) (2014) Influence of trap environment on the effectiveness of an acoustic lure for capturing vespertilionid bats in two temperate forest zones in Japan. *Mammal Study* 39:229-236
38. Cottin M\*, [MacIntosh AJJ\\*](#), Kato A, Takahashi A, Debin M, Raclot T, Ropert-Coudert Y (2014) Corticosterone administration leads to a transient alteration of foraging behaviour and complexity in a diving seabird. *Mar Ecol Progr Ser* 496:249-262
39. [MacIntosh AJJ\\*](#), Pelletier L\*, Chiaradia A, Kato A, Ropert-Coudert Y (2013) Temporal fractals in seabird foraging behaviour: diving through the scales of time. *Sci Rep* 3:1884
40. Sueur C, [MacIntosh AJJ](#), Jacobs AT, Watanabe K, Petit O (2013) Predicting leadership using nutrient requirements and dominance rank of group members. *Behav Ecol Sociobiol* 67: 457-470
41. [MacIntosh AJJ](#), Jacobs A, Garcia C, Shimizu K, Mouri K, Huffman MA, Hernandez AD (2012) Monkeys in the middle: parasite transmission through the social network of a wild primate. *PLoS ONE* 7:e51144
42. Pebsworth PA, [MacIntosh AJJ](#), Morgan HR, Huffman MA (2012) Factors influencing the ranging behaviour of chacma baboons (*Papio hamadryas ursinus*) living in a human-modified habitat. *Int J Primatol* 33:872-887
43. Zhang P, Li BG, Qi XG, [MacIntosh AJJ](#), Watanabe K (2012) A proximity-based social network of a group of Sichuan snub-nosed monkeys (*Rhinopithecus roxellana*). *Int J Primatol* 33: 1081-1095
44. [MacIntosh AJJ](#), Huffman MA, Nishiwaki K, Miyabe-Nishiwaki T (2012) Urological screening of a wild group of Japanese macaques (*Macaca fuscata yakui*): investigating trends in nutrition and health. *Int J Primatol* 33: 460-478
45. [MacIntosh AJJ](#), Alados CL, Huffman MA (2011) Fractal analysis of behaviour in a wild primate: behavioural complexity in health and disease. *J R Soc Interface* 8(63):497–509
46. [MacIntosh AJJ](#), Hernandez AD, Huffman MA (2010) Host age, sex, and reproductive seasonality affect nematode parasitism in wild Japanese macaques. *Primates* 51:353–364
47. [MacIntosh AJJ](#), Sicotte P (2009) Vigilance in ursine black and white colobus monkeys (*Colobus vellerosus*): an examination of the effects of conspecific threat and predation. *Am J Primatol* 71:919–927
48. Sicotte P, [MacIntosh AJ](#) (2004) Inter-group encounters and male incursions in *Colobus vellerosus* in Central Ghana. *Behaviour* 141(5):533–553
49. [MacIntosh AJJ](#) (2001) Rank relations in two captive juvenile male black-handed spider Monkeys (*Ateles geoffroyi*): a case study. *Laboratory Primate Newsletter* 40(2):1–4

## BOOK CHAPTERS

1. Frias L, [MacIntosh AJJ](#) (In Press) Global Diversity and Distribution of Soil-Transmitted Helminths in Monkeys. In: S Knauf & L Jones-Engel (eds) *Neglected Diseases in Monkeys - From the Monkey-Human Interface to One Health*. Springer Nature
2. Balasubramaniam KN, Sueur C, Huffman MA, [MacIntosh AJJ](#) (2020) Primate Infectious Disease Ecology: Insights and Future Directions at the Human-Macaque Interface. In: J-H Li et al. (eds) *The Behavioral Ecology of the Tibetan Macaque*. Springer, pp. 249-284
3. Duboscq J, Romano V, [MacIntosh AJJ](#) (2019) Social Behavior and Infectious Disease. In: J Choe (ed) *Encyclopedia of Animal Behavior, 2<sup>nd</sup> edition*. Elsevier, pp. 790-800
4. Frias L, [MacIntosh AJJ](#) (2019) Threatened Hosts, Threatened Parasites? Parasite Diversity and Distribution in Red-Listed Primates. In: A Behie et al. (eds) *Primate Research and Conservation in the Anthropocene*. Cambridge University Press, pp. 141-164
5. [MacIntosh AJ](#), Frias L (2018) Parasites of gibbons. In: D Modry et al. (eds) *Parasites of apes: an atlas of coproscopic diagnostics*. Edition Chimaira, pp. 76–82
6. [MacIntosh AJJ](#), Frias L (2017) "Coevolution of Hosts and Parasites". In: A Fuentes et al. (eds) *The International Encyclopedia of Primatology*. Wiley
7. [MacIntosh AJJ](#) (2017) "Pathogen". In: A Fuentes et al. (eds) *The International Encyclopedia of Primatology*. Wiley

8. Huffman MA, [MacIntosh AJJ](#) (2012) Plant-food diet of the Arashiyama Japanese macaques and its potential medicinal value. In: Leca J-B, Huffman MA, Vasey P (eds) *The Monkeys of Stormy Mountain: 60 Years of Primatological Research on the Japanese Macaques of Arashiyama*. Cambridge University Press, pp. 356–432
9. [MacIntosh AJJ](#), Huffman MA (2010) Towards understanding the role of diet in host-parasite interactions: the case for Japanese macaques. In: Nakagawa N, Nakamichi M, Sugiura H (eds) *The Japanese macaques*. Springer, pp. 323–344
10. Hernandez AD, [MacIntosh AJ](#), Huffman MA (2009) Primate parasite ecology: patterns and predictions from an on-going study of Japanese macaques. In: Huffman MA, Chapman CA (eds) *Primate parasite ecology: the dynamics of host-parasite relationships*. Cambridge University Press, pp. 387–401

## SELECTED CONFERENCE PRESENTATIONS

\*Best presentation prize

†Invited Talk

1. Frias L, [MacIntosh AJJ](#) (2019) Worming into the Anthropocene: impacts of habitat fragmentation on parasite ecology. The 12th International Meeting of Asian Society of Conservation Medicine, Phnom Penh, Cambodia
2. [MacIntosh AJJ](#), Meyer X, Chiaradia A, Kato A, Ropert-Coudert Y (2019) *Show me chaos! seeking fractal time in the behavior of indicator species*. The 29<sup>th</sup> International Congress for Conservation Biology, Kuala Lumpur, Malaysia.
3. [Sarabian C](#), Plotnik JM, Curtis V, Chapman C, [MacIntosh AJJ](#) (2019) Conservation through disgust and public health: Introducing a new framework. The 29<sup>th</sup> International Congress for Conservation Biology, Kuala Lumpur, Malaysia
4. Sarabian C, Curtis V, Chapman C, [MacIntosh AJJ](#) (2019) Disgust as a tool to mitigate human-primate conflicts and enforce appropriate ecotourism practices? The 2nd African Primatological Society Conference, Entebbe, Uganda
5. [MacIntosh AJJ](#), Frias L (2019) Altered parasite community structure in threatened primates. The 35<sup>th</sup> congress of the Primate Society of Japan, Kumamoto, Japan
6. [MacIntosh AJJ](#), Martin CF (2019) Show me chaos! seeking fractal time in captive animal behavior. The 14<sup>th</sup> International Conference on Environmental Enrichment, Kyoto, Japan
7. [MacIntosh AJJ](#), Meyer X, Chiaradia A, Kato A, Ropert-Coudert Y (2018) Just like clockwork? on the significance of periodic penguins. 10<sup>th</sup> International Symposium on Primatology and Wildlife Science, Kyoto, Japan
8. Sarabian C, Belais R, [MacIntosh AJJ](#) (2018) Feeding decisions under contamination risk in bonobos. The 27<sup>th</sup> International Primatological Society Congress, Nairobi, Kenya
9. Sarabian C, [MacIntosh AJJ](#) (2018) Do primates yuck? Pathogen and parasite avoidance behaviors in *Papionini* and *Hominini*. The 27<sup>th</sup> International Primatological Society Congress, Nairobi, Kenya
10. Frias L, Okamoto M, [MacIntosh AJJ](#) (2017) From the darkness: cryptic diversity of *Strongyloides* in a community of Bornean primates. 66<sup>th</sup> Annual International Conference of the Wildlife Disease Association, Chiapas, Mexico
11. Sarabian C, [MacIntosh AJJ](#) (2017) Pathogen and parasite avoidance behaviors: perspectives from *Papionini* and *Hominini*. The 35<sup>th</sup> International Ethological Conference (Behaviour 2017), Estoril, Portugal
12. Romano V., Puga-Gonzalez I., Sueur C., [MacIntosh AJJ](#) (2017) Modeling the evolution of social structure: from individual decisions to group-living trade-offs. Gottinger Freilandtage - Social complexity: patterns, processes and evolution, Gottingen, Germany
13. Duboscq J, [MacIntosh A](#) (2017) Connecting the dots: linking host behaviour to parasite transmission and infection risk. 7<sup>th</sup> meeting of the European Federation for Primatology, Strasbourg, France
14. Duboscq J, Okamoto M, [MacIntosh A](#) (2017) Infection patterns of simian foamy virus in macaques. 7<sup>th</sup> meeting of the European Federation for Primatology, Strasbourg, France

15. [MacIntosh AJJ](#), Romano V, Duboscq J, Sueur C (2017) Monkeys in the middle: towards organisational immunity in primate societies. Royal Society Scientific Meeting on the Evolution of parasite and pathogen avoidance, Milton Keynes, UK
16. Frias L, Okamoto M, [MacIntosh A](#) (2016). Parasite sharing as a preliminary indicator of multispecies connectivity. 12th Conference of the European Wildlife Disease Association, Berlin, Germany
17. Frias L, Okamoto M, [MacIntosh A](#) (2016). Towards a primate parasite community ecology: parasite sharing in sympatric Bornean primates. The 26<sup>th</sup> Congress of the International Primatological Society, Chicago, USA
18. Frias L, Okamoto M, [MacIntosh A](#) (2016). Gastrointestinal parasite sharing in multi-host primate communities. 13th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases, Antwerp, Belgium
19. Sarabian C, [MacIntosh AJJ](#) (2016) A primate's sense of cleanliness: perspectives from Papionini and Homini. The 26<sup>th</sup> Congress of the International Primatological Society, Chicago, USA
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