

## **James Brooks**

Wildlife Research Center, Kyoto University

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### **EDUCATION**

**Wildlife Research Center, Kyoto University, Kyoto, Japan** 2021-present

PhD candidate

Thesis: *Groupmindedness: An evolutionary comparison of our closest relatives and closest companions*

Advisor: Dr. Shinya Yamamoto

**Wildlife Research Center, Kyoto University, Kyoto, Japan** 2019-2021

Master's of Science

Thesis: *Evolution of groupmindedness: comparative research with bonobos and chimpanzees*

Advisor: Dr. Shinya Yamamoto

**Duke University, Durham NC, USA** 2014-2017

Bachelor of Arts with Distinction in Evolutionary Anthropology, *cum laude*

Minors in Mathematics and Philosophy

Thesis: *Evidence for self-domestication in wild coyotes?*

Advisor: Dr. Brian Hare

### **RESEARCH AND EMPLOYMENT EXPERIENCE**

**Kumamoto Sanctuary, Kumamoto Japan** October-December 2018

*Visiting researcher*

**Study on Free Ranging Dogs, Hsinchu City, Taiwan** October 2018

*Research Assistant*

**Wildlife Science Center, Stacy, MN, USA** June 2018-August 2018

*Visiting researcher*

**Duke Puppy Kindergarten, Durham, NC, USA** March 2018-May 2018

*Co-project manager*

**Hare Lab at Duke University, Durham NC, USA** March 2018-February 2019

*Associate in Research*

**Kumamoto Sanctuary, Kumamoto, Japan** February-March 2018

*Visiting student researcher*

**Hare Lab at Duke University, Durham NC, USA** August 2015-December 2017

*Work-Study*

**Duke Red Colobus Project, Tanzania** Summer 2017

*Project Initiation*

**Orangutan Kutai Project, Indonesia** Summer 2016

*Research Assistant*

**Species Studied:** Coyote, grey wolf, domestic dog, horse, red colobus monkey, chimpanzee, bonobo, orangutan, human

## PUBLICATIONS

- **Brooks, J**, Yamamoto S (2022) “The evolution of group-mindedness: comparative research on top-down and bottom-up group cooperation in bonobos and chimpanzees” *Current Opinion in Behavioural Science* 47, 101205. doi: j.cobeha.2022.101205
- **Brooks, J**, Kano, F, Kawaguchi, Y, Yamamoto S (2022) “Oxytocin promotes species-relevant outgroup attention in bonobos and chimpanzees” *Hormones and Behaviour* 143, 105182. doi: j.yhbeh.2022.105182
- **Brooks, J**, Yamamoto S (2021) “The founder sociality hypothesis” *Ecology and Evolution* 11(21), 14392-14404. doi: 10.1002/ece3.8143
- **Brooks, J**, Yamamoto S (2021) “Response: Commentary: Dog stick chewing: an overlooked instance of tool use?” *Frontiers in Psychology* 12, 757526. doi:10.3389/fpsyg.2021.757526
- **Brooks, J\***, Yoshimura, H\*, Taki, Y\* (2021) “Knowledge-based enrichment: development of a novel enrichment device for captive chimpanzees” *Zoo Biology* 40(5), 398-406. doi:10.1002/zoo.21617
- **Brooks, J**, Onishi, E, Clarke, IE, Bohn, M, Yamamoto, S (2021) “Uniting against a common enemy: outgroup threat elicits ingroup cohesion in chimpanzees” *PLOS ONE* 16(2), e0246869. doi:10.1371/journal.pone.0246869
- **Brooks, J** (2021) “Function and representational content through Tinbergen’s levels of analysis” *Biology and Philosophy* 36(7). doi:10.1007/s10539-021-09783-5
- **Brooks, J**, Yamamoto, Y (2021) “Dog stick chewing: an overlooked instance of tool use?” *Frontiers in Psychology* 11, 3753. doi:10.3389/fpsyg.2020.577100
- **Brooks, J\***, Kano, F\*, Sato, Y, Yeow, H, Morimura, N, Nagasawa, M, Kikusui, F, Yamamoto, S (2021) “Divergent effects of oxytocin on eye contact in bonobos and chimpanzees.” *Psychoneuroendocrinology* 25, 105119. doi: 10.1016/j.psyneuen.2020.105119
- Onishi, E, **Brooks, J**, Leti, I, Monghiemo, C, Bokika, J-C, Shintaky, Y, Idani, G, Yamamoto, S (2020) “Nkala Forest: Introduction of a forest-savanna mosaic field site of wild bonobos and its future prospects.” *Pan Africa News* 27(1), 2-5. doi:10.5134/254101
- **Brooks, J**, Kays, R, Hare, B (2020) “Coyotes living near cities are bolder: implications for dog evolution and human-wildlife management.” *Behaviour* 157(3-4), 289-313. doi:10.1163/1568539X-bja10002

\*denotes equal contribution

## CONFERENCE PRESENTATIONS

- **Brooks, J**, Onishi, E, Clarke, I, Bohn, M, Yamamoto, S (2022) “Perceived outgroup threat promotes ingroup cohesion in chimpanzees” International Society for Behavioural Ecology Congress 2022, Stockholm, Sweden (Oral)
- Onishi, E, Inoue, S, **Brooks, J**, Yamamoto, S (2022) “Contagious urination among captive chimpanzees: Investigation of initiator and follower” International Society for Behavioural Ecology Congress 2022, Stockholm, Sweden (Poster)

- **Brooks, J**, Kano, F, Yeow, H, Morimura, N, Yamamoto, S (2022) “Oxytocin can promote social grooming in bonobos” Animal Behaviour Society 2022, San Jose, Costa Rica (Oral)
- **Brooks, J**, Yamamoto, S (2022) “The founder sociality hypothesis” 17<sup>th</sup> International Symposium on Primatology and Wildlife Science, Kyoto University, Japan (Oral)
- **Brooks, J**, Kano, F, Yamamoto, S (2022) “Oxytocin promotes species-relevant social attention in bonobos and chimpanzees.” Joint Meeting of the International Primatological Society and the Latin American Society of Primates, Quito, Ecuador (Oral-presented online)
- Onishi, E, Inoue, S, **Brooks, J**, Yamamoto, S (2021) “Urination behavior of captive chimpanzees: preliminary study of social factors.” 16<sup>th</sup> International Symposium on Primatology and Wildlife Science, Kyoto University, Japan (Poster)
- **Brooks, J**, Kano, F, Yeow, H, Morimura, N Yamamoto, S (2021) “Oxytocin promotes social grooming in bonobos: evidence for a biobehavioural feedback loop.” 16<sup>th</sup> International Symposium on Primatology and Wildlife Science, Kyoto University, Japan (Oral)
- **Brooks, J**, Kano, F, Yamamoto, S (2021) “Oxytocin promotes species-relevant outgroup attention in bonobos and chimpanzees.” 15<sup>th</sup> International Symposium on Primatology and Wildlife Science, Kyoto University, Japan (Oral)
- **Brooks, J**, Kano, F, Sato, Y, Yeow, H, Morimura, N, Nagasawa, M, Kikusui, T, Yamamoto, S (2020) “Contrasting effects of exogenous oxytocin on chimpanzees’ and bonobos’ attention to eyes.” 80<sup>th</sup> Annual Meeting of the Japanese Society for Animal Psychology, Japan (Oral)
- Onishi, E, **Brooks, J**, Yamamoto, S (2020) “Chimpanzees urinate together: synchronized urination among captive chimpanzees and investigation of social relationships.” 80<sup>th</sup> Annual Meeting of the Japanese Society for Animal Psychology, Japan (Oral)
- **Brooks, J**, Onishi, E, Clark, I, Bohn, M, Yamamoto, S (2020) “Outgroup threat promotes ingroup tolerance despite increased stress in chimpanzees.” 14<sup>th</sup> International Symposium on Primatology and Wildlife Science, Kyoto University, Japan (Oral)
- Onishi, E, **Brooks, J**, Yamamoto, S (2020) “Synchronized urination in captive chimpanzees: possible effects of social closeness.” 14<sup>th</sup> International Symposium on Primatology and Wildlife Science, Kyoto University, Japan (Poster)
- **Brooks, J**, Onishi, E, Clark, I, Yamamoto, S (2020) “Outgroup threat elicits ingroup cohesion in captive chimpanzees.” 13<sup>th</sup> International Symposium on Primatology and Wildlife Science, Kyoto University, Japan (Oral)
- Onishi, E, **Brooks, J**, Yamamoto, S (2020) “Preliminary study on synchronized urination in captive chimpanzees” 13<sup>th</sup> International Symposium on Primatology and Wildlife Science, Kyoto University, Japan (Oral)
- Yoshimura, H, **Brooks, J**, Taki, Y (2020) “Efficacy of a novel chimpanzee enrichment device using prior knowledge and motivational structure.” 64<sup>th</sup> Primates Conference, Japan Monkey Center, Japan (Poster)
- Onishi, E, **Brooks, J**, Leti, I, Bokila, J, Shintaku, Y, Idani, G, Yamamoto, S (2020) “Report on the disappearance of four adult bonobo males in Mbali, DR Congo” 64<sup>th</sup> Primates Conference, Japan Monkey Center, Japan (Poster)
- 大西絵奈, **Brooks, J**, 山本真也 (2019) “飼育チンパンジーにおける生理反応の同期.” 12<sup>th</sup> Annual Meeting of the Human Behaviour and Evolution Society of Japan, Meiji University, Japan (Poster)

- 大西絵奈, **Brooks, J**, 山本真也 (2019) “飼育チンパンジー(*Pan Troglodytes*)における排尿タイミングの同期.” 動物行動学会, Japan (Poster)
- Onishi, E, **Brooks, J**, Yamamoto, S (2019) “Bonobo food culture? Preliminary comparison of wild bonobos' feeding ecology between two sites.” SAGA 22, Japan Monkey Center, Japan (Poster)
- **Brooks, J**, Kano, F, Yamamoto, S (2019) “Modulation of great ape social attention by oxytocin.” 12<sup>th</sup> International Symposium on Primatology and Wildlife Science, Kyoto University, Japan (Poster)
- Onishi, E, **Brooks, J**, Yamamoto, S (2019) “Preliminary behavioral survey of bonobos in Mbali, savanna-forest mosaic environment.” 12<sup>th</sup> International Symposium on Primatology and Wildlife Science, Kyoto University, Japan (Poster)
- **Brooks, J**, Kano, F, Yamamoto, S (2019) “Effects of oxytocin on bonobo and chimpanzees gaze.” 79<sup>th</sup> Annual Meeting of the Japanese Society for Animal Psychology, Japan (Poster)
- **Brooks, J**, Kano, F, Yamamoto, S (2019) “Effects of oxytocin on chimpanzee social attention.” 35<sup>th</sup> Annual Congress of the Primate Society of Japan, Kumamoto, Japan (Poster)
- **Brooks, J**, Kays, R, Hare, B (2019) “Selection for boldness in urban coyotes: Implications for wildlife management.” 14<sup>th</sup> International Conference on Environmental Enrichment, Kyoto University, Japan (Poster)
- **Brooks, J** (2019) “Self-domestication, Groupmindedness, and the Evolution of Cooperation: Comparative studies with coyotes, bonobos, and chimpanzees.” 11<sup>th</sup> International Symposium on Primatology and Wildlife Science, Kyoto University, Japan (Poster)
- **Brooks, J** (2018) Evidence for self-domestication in wild coyotes?” 9<sup>th</sup> International Symposium on Primatology and Wildlife Science, Kyoto University, Japan (Poster)

### INVITED TALKS

- “Groupmindedness in great apes” University of California San Diego Rossano Lab meeting (online). 2022
- “The evolution of groupmindedness: Comparative primatology in the field and captivity” Boğaziçi University Evolution Seminars (online). 2020

### GRANTS/SCHOLARSHIPS

<b>JSPS DC1 Doctoral Fellowship</b> , 8,500,000 JPY	2021-2024
Japan Society for the Promotion of Science	
<b>Evolution of Groupmindedness</b> , <i>ad libitum</i> funding	2019-present
Leading Graduate Program in Primatology and Wildlife Science	
<b>MEXT Research Scholarship</b> , 3,456,000 JPY	2019-2021
Japanese Ministry of Education, Culture, Sports, Science and Technology	
<b>Duke Red Colobus Research Project</b> , 3,000 USD	2017
Duke Internship Funding Program	
<b>Orangutan Kutai Project</b> , 2,200 USD	2016
Duke Internship Funding Program	

## SELECTED MEDIA COVERAGE



## AWARDS

**Best Oral Presentation (2<sup>nd</sup>)**, 16th International Symposium on Primate and Wildlife Science, Kyoto University, September 2021

**Best Oral Presentation (2<sup>nd</sup>)**, 15th International Symposium on Primate and Wildlife Science, Kyoto University, February 2021

**Best Poster (2<sup>nd</sup>)**, 11th International Symposium on Primate and Wildlife Science, Kyoto University, March 2019

## SOCIETY MEMBERSHIPS

International Society for Behavioural Ecology	2022-present
Animal Behaviour Society	2022-present
International Primatological Society	2020-present
Primate Society of Japan	2019-present
Japanese Society for Animal Psychology	2019-present

## REVIEWS

Ad hoc peer review for: Journal of Comparative Psychology, Emotion, Ecology and Evolution, Royal Society Open Science, Frontiers in Ecology and Evolution, PeerJ

## LANGUAGE EDITING

English editing for papers appearing in: PLOS One

## LANGUAGES

English (Native), French (Full Professional Proficiency), Japanese (Limited Working Proficiency)