

James Brooks, PhD

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RESEARCH AND EMPLOYMENT EXPERIENCE

Post doctorate:

German Primate Center DPZ, Göttingen, Germany 2024-present

Kyoto University Institute for Advanced Study, Kyoto, Japan 2023-2024

Pre doctorate:

Kumamoto Sanctuary, Kumamoto Japan Winter 2018

Taiwan Free Ranging Dog Project, Hsinchu City, Taiwan Fall 2018

Wildlife Science Center, Stacy, MN, USA Summer 2018

Duke Puppy Kindergarten, Durham, NC, USA Spring-Summer 2018

Duke Red Colobus Project, Tanzania Summer 2017

Orangutan Kutai Project, Indonesia Summer 2016

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

EDUCATION

Degrees:

Wildlife Research Center, Kyoto University, Kyoto, Japan 2021-2023

PhD

Thesis: *The evolutionary origins of group-mindedness: Comparative studies with apes and equines*

Advisor: Dr. Shinya Yamamoto

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

Master 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*

Concentration in Behavior, Ecology and Cognition

Minors in Mathematics and Philosophy

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

Advisor: Dr. Brian Hare

Other education:

Diverse Intelligences Summer Institute (2023)

CIFAR Neuroscience of Consciousness Winter School (2023)

PUBLICATIONS

1. **Brooks, J**, Maeda, T, Ringhofer, M, Yamamoto, S (2024) "Oxytocin homogenizes horse group organization" *iScience* 27(7), 110356. doi:10.1016/j.isci.2024.110356
2. **Brooks, J**, Samuni, L (*in press*) "Revisiting the spaces of societies and the cooperation that sustains them" *Commentary in Behavioural and Brain Sciences*.
3. Morimura, N, Itahara, A, **Brooks, J**, Mori, Y, Yige, P, Hashimoto, H, Mizumoto, I (2023) "A Drone Study of Sociality in the Finless Porpoise *Neophocaena asiaeorientalis* in the Ariake Sound, Japan" *Drones* 7(7), 442. doi:10.3390/drones7070422
4. **Brooks, J***, Kano, F*, Yeow, H, Morimura, N, Yamamoto, S (2022) "Testing the effect of oxytocin on social grooming in bonobos." *American Journal of Primatology* 84(12), e23444. doi:10.1002/ajp.23444
5. **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
6. **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
7. **Brooks, J**, Yamamoto S (2021) "The founder sociality hypothesis" *Ecology and Evolution* 11(21), 14392-14404. doi: 10.1002/ece3.8143
8. **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
9. **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
10. **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
11. **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
12. **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
13. **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

14. 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
15. **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

SELECTED CONFERENCE PRESENTATIONS

- **Brooks, J** Maeda, T, Ringhofer, M, Yamamoto, S (2024) “Oxytocin modulates group organization in free-moving horses” Animal Behaviour Society 2024, London, Canada (Oral)
- Kobayashi, C, Palacino, G, **Brooks, J**, Yamamoto, S (2023) “Revealing the effect of oxytocin on social relationships in semi-free-ranging horses under food competition with behavioral tracking using deep learning” 18th International Symposium on Primatology and Wildlife Science, Kyoto, Japan (Oral)
- Onishi, E, Inoue, S, **Brooks, J**, Yamamoto, S (2023) “Urination Behavior in Captive Chimpanzees: Synchrony, Contagion, and Social Patterns” 18th International Symposium on Primatology and Wildlife Science, Kyoto, Japan (Oral)
- **Brooks, J**, van Heijst, K, Epping, A, Lee, S, Niksarli, A, Pope, A, Clay, Z, Kret, M, Tagliabue, J, Yamamoto, S (2023) “Outgroup cues promote ingroup cohesion in bonobos despite limited intergroup competition” Joint Meeting of the International Primatological Society and the Malaysian Primatological Society, Kuching, Malaysia (Oral)
- **Brooks, J**, Kano, F, Kawaguchi, Y, Yamamoto, S (2022) “Oxytocin promotes species-relevant outgroup attention in bonobos and chimpanzees” 82nd Annual Conference of the Japan Society for Animal Psychology (Oral)
- **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” 17th 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)
- **Brooks, J, Kano, F, Yamamoto, S** (2021) “Oxytocin promotes species-relevant outgroup attention in bonobos and chimpanzees.” 15th 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.” 80th 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.” 80th 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.” 14th 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.” 64th 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” 64th 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.” 12th 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.” 12th 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.” 12th International Symposium on Primatology and Wildlife Science, Kyoto University, Japan (Poster)
- **Brooks, J**, Kano, F, Yamamoto, S (2019) “Effects of oxytocin on chimpanzee social attention.” 35th 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.” 14th 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.” 11th International Symposium on Primatology and Wildlife Science, Kyoto University, Japan (Poster)
- **Brooks, J** (2018) Evidence for self-domestication in wild coyotes?” 9th International Symposium on Primatology and Wildlife Science, Kyoto University, Japan (Poster)

INVITED TALKS

- “The mechanisms and evolution of group-based cooperation” Behaviour and Evolution Research Group (BERG), University of Stirling (online). 2024
- “Behavioural effects of exogenous oxytocin and outgroup stimuli in great apes” Department of Comparative Cultural Psychology, Max Planck Institute for Evolutionary Anthropology. 2023
- “Oxytocin, affiliation, and group-mindedness” Diverse Intelligences Summit, University of St Andrews. 2023
- “Comparative studies with apes and equines: the evolution of group-mindedness” Center for the Advanced Study of Collective Behaviour, University of Konstanz. 2023
- “The evolutionary origins of group-mindedness” Burkart Lab, University of Zurich. 2023
- “Comparative studies of group cohesion in apes and horses” Mathematical Biology Group, Graduate University for Advanced Studies (SOKENDAI). 2023
- “Groupmindedness in great apes” University of California San Diego Rossano Lab (online). 2022
- “The evolution of groupmindedness: Comparative primatology in the field and captivity” Boğaziçi University Evolution Seminars (online). 2020

FUNDING

Grants/scholarships:

JSPS PD Postdoctoral Fellowship , 5,400,000 JPY	2023-2024
Japan Society for the Promotion of Science	
JSPS DC1 Doctoral Fellowship , 9,400,000 JPY	2021-2023
Japan Society for the Promotion of Science	
Evolution of Groupmindedness , <i>ad libitum</i> funding	2019-2023
Leading Graduate Program in Primatology and Wildlife Science	
MEXT Research Scholarship , 3,456,000 JPY	2019-2021
Japanese Ministry of Education, Culture, Sports, Science and Technology	
Duke Red Colobus Research Project , 3,000 USD	2017
Duke Internship Funding Program	
Orangutan Kutai Project , 2,200 USD	2016
Duke Internship Funding Program	

Early career travel funding:

International Society of Behavioural Ecology	2024
CIFAR Neuroscience of Consciousness Winter School	2023
Diverse Intelligences Summer Institute	2023

SELECTED MEDIA COVERAGE



(logos redirect to articles)

SELECTED AWARDS

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

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

Best Poster (2nd), 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
Japanese Society for Animal Psychology

2019-present
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, Evolution and Human Behaviour, PLOS ONE, Animal Behaviour and Cognition

LANGUAGES

English (Native), French (proficient), Japanese (intermediate), German (beginner)