

CURRICULUM VITAE

Jean-Baptiste LECA

Associate Professor

Board of Governors Research Chair (Tier II)

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RESEARCH FIELDS AND INTERESTS

Fields: Ethology, Comparative Psychology, Behavioural Ecology, Anthropology, Primatology, Conservation

Interests: Inter-group behavioural variation, innovation, culture, social learning, development, cognition, social organization, group decision, object play, tool use, token exchange, manual laterality, sex hormones, sexual behaviours, sexual orientation, non-adaptive cultural behaviours, personality

EDUCATION

Initial education

- 2002 **Ph.D. in Ethology**, University Louis Pasteur, Strasbourg, France
1998 **M.Sc. in Neuroscience**, *Magna Cum Laude*, University Louis Pasteur, Strasbourg, France
1997 **Primate Cognition class, B.A. in Cognitive Psychology**, *Magna Cum Laude*, University Louis Pasteur, Strasbourg, France
1995 **B.Sc. in Cell Biology, Animal Physiology and Behavioural Neuroscience**, *Magna Cum Laude*, University of Bordeaux, France

Continuing education

- 2001 Animal Experimentation License, University Louis Pasteur, Strasbourg, France
2000 Certificate in Animal Population Managing, University Louis Pasteur, Strasbourg, France

PROFESSIONAL AND ACADEMIC APPOINTMENTS

- 2019-present **Associate Professor (tenured)**
Department of Psychology, University of Lethbridge, Canada
- 2019-present **Adjunct Faculty**
School of Natural and Engineering Sciences
National Institute of Advanced Studies, Bangalore, India
- 2017-present **Board of Governors Research Chair (Tier II: Origins & Explorations)**
Office of the Vice-President (Research), University of Lethbridge, Canada
- 2014-2019 **Assistant Professor**
Department of Psychology, University of Lethbridge, Canada
- 2011-2014 **Post-doctoral Fellow**
Department of Psychology, University of Lethbridge, Canada

- 2011-2014 **Sessional Lecturer**
Department of Psychology, University of Lethbridge, Canada
- 2010 **Visiting Researcher**
Primate Research Center, Udayana University, Bali, Indonesia
- 2007-2009 **Post-Doctoral Fellow**
Primate Research Institute, Kyoto University, Japan
- 2006 **Research Associate**
Institut Pluridisciplinaire Hubert Curien, Strasbourg, France
- 2003-2005 **Post-doctoral Fellow**
Primate Research Institute, Kyoto University, Japan
- 1998-2002 **Instructor**
Department of Ecology and Ethology, University Louis Pasteur, Strasbourg, France

PUBLICATIONS

Articles published or in press in peer-reviewed journals (*: Leca lab's members – former or current)

44. Logue D, **Leca JB**. (In press). Cultural evolution: Rapid spread of a birdsong variant suggests a novel mode of transmission. *Current Biology*.
43. Gunst N*, Casarrubea M, Vasey PL, **Leca JB**. (In press). Is female-male mounting functional? An analysis of the temporal patterns of sexual behaviors in Japanese macaques. *Physiology & Behavior* (Special Issue: "T-Pattern Analysis").
42. Cenni C*, Casarrubea M, Gunst N*, Vasey PL, Pellis SM, Wandia IN, **Leca JB**. (In press). Inferring functional patterns of tool use behavior from the temporal structure of object play sequences in a non-human primate species. *Physiology & Behavior* (Special Issue: "T-Pattern Analysis").
41. Addressi A, Beran M, Bourgeois-Gironde S, Brosnan S, **Leca JB**. (2020). Are the roots of human economic systems present in non-human primates? *Neuroscience & Biobehavioral Reviews*, 109, 1-15.
40. Brotcorne F*, Holzner A*, Jorge-Sales L*, Gunst N*, Hambuckers A, Wandia IN, **Leca JB**. (2020). Social influence on the expression of robbing and bartering behaviours in Balinese long-tailed macaques. *Animal Cognition*, 23, 311-326.
39. Pellis SM, Pellis V, Pelletier A*, **Leca JB**. (2019). Is play a behavior system, and, if so, what kind? *Behavioural Processes*, 160, 1-9 (Special Issue: "Legacy of William Tinberlake"). Open Access: <https://doi.org/10.1016/j.beproc.2018.12.011>
38. **Leca JB**, Gunst N*, Shimizu K, Huffman MA, Takahata Y, Vasey PL. (2018). Hormonal contraceptive affects heterosexual but not homosexual behavior in free-ranging female Japanese macaques over 17 mating seasons. *Hormones and Behavior*, 105, 166-176.
37. Gunst N*, Vasey PL, **Leca JB**. (2018). Deer mates: A quantitative study of heterospecific sexual behaviors performed by Japanese macaques toward Sika deer. *Archives of Sexual Behavior*, 47(4), 847-856.
36. Pelletier AN*, Kaufmann T*, Mohak S*, Milan R*, Nahallage CAD, Huffman MA, Gunst N*, Rompis A, Wandia IN, Arta Putra IGA, Pellis SM, **Leca JB**. (2017). Behavior systems approach to object play: Stone handling repertoire as a measure of propensity for complex foraging and percussive tool use in the genus *Macaca*. *Animal Behavior and Cognition*, 4(4), 455-473.

35. Brotcorne F*, Giraud G, Gunst N*, Fuentes A, Wandia IN, Beudels-Jamar RC, Poncin P, Huynen MC, **Leca JB**. (2017). Intergroup variation in robbing and bartering by long-tailed macaques at the Uluwatu Temple (Bali, Indonesia). *Primates*, 58(4), 505-516.
34. Gunst N*, Forteau AM, Philbert S, Vasey PL, **Leca JB**. (2016). Decline in population density and group size of mona monkeys in Grenada. *Primate Conservation*, 30, 7-13.
33. Nahallage CAD, **Leca JB**, Huffman M. (2016). Stone handling, an object play behaviour in macaques: Welfare and neurological health implications of a bio-culturally driven tradition. *Behaviour*, 153(6-7), 845-869.
32. **Leca JB**, Gunst N*, Pelletier AN*, Vasey PL, Nahallage CAD, Watanabe K, Huffman MA. (2016). A multidisciplinary view on cultural primatology: Behavioral innovations and traditions in Japanese macaques. *Primates*, 57(3), 333-338.
31. **Leca JB**. (2015). Arbitrary cultural behavior patterns are not unique to humans [Invited commentary on Nakagawa et al.: Embracing in a wild group of Yakushima macaques (*Macaca fuscata yakui*) as an example of social customs]. *Current Anthropology*, 56(1), 112-113.
30. **Leca JB**, Gunst N*, Huffman MA, Vasey PL. (2015). Effect of female-biased sex ratios on female homosexual behavior in Japanese macaques: Evidence for the "bisexual preference hypothesis". *Archives of Sexual Behavior*, 44(8), 2125-2138.
29. **Leca JB**, Gunst N*, Vasey PL. (2015). Comparative development of heterosexual and homosexual behaviors in free-ranging female Japanese macaques. *Archives of Sexual Behavior*, 44(5), 1215-1231.
28. Gunst N*, **Leca JB**, Vasey PL. (2015). Influence of sexual competition and social context on homosexual behavior in adolescent female Japanese macaques. *American Journal of Primatology*, 77(5), 502-515.
27. Ottenheimer Carrier L*, **Leca JB**, Pellis SM, Vasey PL. (2015). A structural comparison of female-male and female-female mounting in Japanese macaques (*Macaca fuscata*). *Behavioural Processes*, 119, 70-75.
26. **Leca JB**, Gunst N*, Ottenheimer Carrier L*, Vasey PL. (2014). Inter-group variation in non-conceptive sexual activity in female Japanese macaques: could it be cultural? *Animal Behavior and Cognition*, 1(3), 387-409.
25. **Leca JB**, Gunst N*, Vasey PL. (2014). Development of sexual behavior in free-ranging female Japanese macaques. *Developmental Psychobiology*, 56(6), 1199-1213.
24. **Leca JB**, Gunst N*, Vasey PL. (2014). Male homosexual behavior in a free-ranging all-male group of Japanese macaques at Minoo, Japan. *Archives of Sexual Behavior*, 43(5), 853-861.
23. Vasey PL, **Leca JB**, Gunst N*, VanderLaan DP. (2014). Female homosexual behavior and intersexual mate competition in Japanese macaques: Possible implications for sexual selection theory. *Neuroscience & Biobehavioral Reviews*, 46(4), 573-578.
22. VanderLaan DP, Garfield ZH, Garfield MJ, **Leca JB**, Vasey PL, Hames RB. (2014). The "female fertility-social stratification-hypergyny" hypothesis of male homosexual preference: factual, conceptual and methodological errors in Barthes et al. [Commentary]. *Evolution & Human Behavior*, 35, 445-447.
21. **Leca JB**, Gunst N, Rompis A, Soma G, Arta Putra IGA, Wandia IN. (2013). Population density and abundance of ebony leaf monkeys (*Trachypithecus auratus*) in West Bali National Park, Indonesia. *Primate Conservation*, 26, 133-144.

20. Gunst N, **Leca JB**, Vasey PL. (2013). Development of sexual and socio-sexual behaviours in free-ranging juvenile male Japanese macaques, *Macaca fuscata*. *Behaviour*, 150(11), 1225-1254.
19. **Leca JB**. (2012). Approche intégrée des comportements culturels: le cas de la manipulation de pierres chez le macaque japonais (*Macaca fuscata*) [Integrative approach to cultural behaviour: the case of stone handling in Japanese macaques (*Macaca fuscata*)]. *Techniques & Culture*, 57, 142-163 [in French].
18. **Leca JB**, Gunst N, Huffman MA. (2011). Complexity in object manipulation by Japanese macaques (*Macaca fuscata*): a cross-sectional analysis of manual coordination in stone handling patterns. *Journal of Comparative Psychology*, 125(1), 61-71.
17. **Leca JB**, Gunst N, Huffman MA. (2010). Principles and levels of laterality in unimanual and bimanual stone handling patterns by Japanese macaques. *Journal of Human Evolution*, 58(2), 155-165.
16. **Leca JB**, Gunst N, Huffman MA. (2010). Indirect social influence in the maintenance of the stone handling tradition in Japanese macaques (*Macaca fuscata*). *Animal Behaviour*, 79(1), 117-126.
15. **Leca JB**, Gunst N, Huffman MA. (2010). The first case of dental flossing by a Japanese macaque (*Macaca fuscata*): implications for the determinants of behavioral innovation and the constraints on social transmission. *Primates*, 51(1), 13-22.
14. Gunst N, **Leca JB**, Boinski S, Fragaszy D. (2010). The ontogeny of handling hard-to-process food in wild brown capuchins (*Cebus apella apella*): evidence from foraging on the fruit of *Maximiliana maripa*. *American Journal of Primatology*, 72(11), 960-973.
13. Huffman MA, Spiezio C, Sgaravatti A, **Leca JB**. (2010). Leaf swallowing behavior in chimpanzees (*Pan troglodytes*): biased learning and the emergence of group-level cultural differences. *Animal Cognition*, 13(6), 871-880.
12. Petit O, Gautrais J, **Leca JB**, Théraulaz G, Deneubourg JL. (2009). Collective decision-making in white-faced capuchin monkeys. *Proceedings of the Royal Society B*, 276(1672), 3495-3503.
11. **Leca JB**, Gunst N, Huffman MA. (2008). Of stones and monkeys: Testing ecological constraints on stone handling, a behavioral tradition in Japanese macaques. *American Journal of Physical Anthropology*, 135(2), 233-244.
10. **Leca JB**, Gunst N, Huffman MA. (2008). Food provisioning and stone handling tradition in Japanese macaques: a comparative study of ten troops. *American Journal of Primatology*, 70(8), 803-813.
9. **Leca JB**, Nahallage C, Gunst N, Huffman MA. (2008). Stone-throwing by Japanese macaques: form and functional aspects of a group-specific behavioral tradition. *Journal of Human Evolution*, 55(6), 989-998.
8. Huffman MA, Nahallage C, **Leca JB**. (2008). Cultured monkeys, social learning cast in stones. *Current Directions in Psychological Science*, 17(6), 410-414.
7. **Leca JB**, Gunst N, Petit O. (2007). Social aspects of fur rubbing in *Cebus capucinus* and *C. apella*. *International Journal of Primatology*, 28(4), 801-817.
6. **Leca JB**, Gunst N, Huffman MA. (2007). Japanese macaque cultures: Inter- and intra-troop behavioural variability of stone handling patterns across 10 troops. *Behaviour*, 144(3), 251-281.
5. **Leca JB**, Gunst N, Huffman MA. (2007). Age-related differences in the performance, diffusion, and maintenance of stone handling, a behavioral tradition in Japanese macaques. *Journal of Human Evolution*, 53(6), 691-708.
4. **Leca JB**, Gunst N, Watanabe K, Huffman MA. (2007). A new case of fish-eating in Japanese macaques:

Implications for social constraints on the diffusion of feeding innovation. *American Journal of Primatology*, 69(7), 821-828.

3. Meunier H, **Leca JB**, Deneubourg JL, Petit O. (2006). Group movement decisions in capuchin monkeys: The utility of an experimental study and a mathematical model to explore the relationship between individual and collective behaviours. *Behaviour*, 143(12), 1511-1527.
2. **Leca JB**, Gunst N, Thierry B, Petit O. (2003). Distributed leadership in semi-free ranging white-faced capuchin monkeys. *Animal Behaviour*, 66(6), 1045-1052.
1. **Leca JB**, Fornasieri I, Petit O. (2002). Aggression and reconciliation in *Cebus capucinus*. *International Journal of Primatology*, 23(5), 979-998.

Manuscripts in review (*: Leca lab's members)

2. **Leca JB**, Gunst N*, Gardiner M*, Wandia IN. (In review). Acquisition of object robbing and object/food bartering: A culturally maintained token economy in free-ranging long-tailed macaques. *Philosophical Transactions of the Royal Society B* (Special Issue: "Existence and Prevalence of Economic Behaviours among Non-Human Primates").
1. Cenni C*, Casarrubea M, Pellis SM, Gunst N, Wandia IN, **Leca JB**. (In review). Object play signature in a non-human primate species: Behavioral specialization in stone handling behavior in long-tailed macaques, *Macaca fascicularis*. *Animal Cognition*.

Peer-reviewed book chapters and encyclopedia entries (*: Leca lab's members)

9. **Leca JB**. (In press). Evolutionary by-products. In: T.K. Shackelford & V. A. Weekes-Shackelford (eds). *Encyclopedia of Evolutionary Psychological Science*. Springer International Publishing, Switzerland.
8. **Leca JB**. (In press). By-products of adaptations. In: T.K. Shackelford & V. A. Weekes-Shackelford (eds). *Encyclopedia of Evolutionary Psychological Science*. Springer International Publishing, Switzerland.
7. Cenni C*, **Leca JB**. (2020). Technological intelligence hypothesis. In: J. Vonk & T.K. Shackelford (eds). *Encyclopedia of Animal Cognition and Behavior*. Springer International Publishing, Switzerland. DOI: https://doi.org/10.1007/978-3-319-47829-6_103-1
6. Cenni C*, **Leca JB**. (2020). Tool use. In: J. Vonk & T.K. Shackelford (eds). *Encyclopedia of Animal Cognition and Behavior*. Springer International Publishing, Switzerland. DOI: https://doi.org/10.1007/978-3-319-47829-6_1541-1
5. **Leca JB**, Vasey PL. (2016). The homosexuality paradox: Cross-species comparative evidence. In: T.K. Shackelford & V.A. Weekes-Shackelford (eds). *Encyclopedia of Evolutionary Psychological Science*. Springer International Publishing, Switzerland. DOI: https://doi.org/10.1007/978-3-319-16999-6_47-1
4. **Leca JB**. (2012). Dental flossing behaviour as a grooming-related innovation by a Japanese macaque. In: **J.-B. Leca**, M.A. Huffman & P.L. Vasey (eds). *The Monkeys of Stormy Mountain: 60 Years of Primatological Research on the Japanese Macaques of Arashiyama*. Cambridge University Press, Cambridge, pp. 322-330.
3. **Leca JB**, Gunst N, Huffman MA. (2012). Thirty years of stone handling tradition in Arashiyama-Kyoto macaques: implications for cumulative culture and tool use in non-human primates. In: **J.-B. Leca**, M.A. Huffman & P.L. Vasey (eds). *The Monkeys of Stormy Mountain: 60 Years of Primatological Research on the Japanese Macaques of Arashiyama*. Cambridge University Press, Cambridge, pp. 223-257.
2. Huffman MA, Fedigan LM, Vasey PL, **Leca JB**. (2012). A brief historical time-line of research on the Arashiyama macaques. In: **J.-B. Leca**, M.A. Huffman & P.L. Vasey (eds). *The Monkeys of Stormy Mountain: 60 Years of Primatological Research on the Japanese Macaques of Arashiyama*. Cambridge University

Press, Cambridge, pp. 13-27.

1. Huffman MA, **Leca JB**, Nahallage CAD. (2010). Cultured Japanese macaques: A multidisciplinary approach to stone handling behavior and its implications for the evolution of behavioral tradition in nonhuman primates. In: N. Nakagawa, M. Nakamichi & H. Sugiura (eds). *The Japanese Macaques*. Springer, Tokyo, pp. 191-219.

Non-refereed book chapters and scientific reports (*: Leca lab's members)

6. **Leca JB**. (2015). How to capture what we really are? Core methodological issues in personality research. In: J. R. Vokey & S. W. Allen (eds). *Psychological Sketches (The "What If?" Edition)*. PsΨence™ Publishing Society, Department of Psychology, The University of Lethbridge, pp. 153-163.
5. **Leca JB**. (2015). How and why do human and nonhuman cumulative cultures differ? In: J. R. Vokey & S. W. Allen (eds). *Psychological Sketches (The "What If?" Edition)*. PsΨence™ Publishing Society, Department of Psychology, The University of Lethbridge, pp. 137-151.
4. **Leca JB**. (2015). Non-conceptive sexuality in Japanese macaques: Developmental, physiological, and cultural/genetic approaches. Final Research Report submitted to the *Trustees of The Leakey Foundation*, San Francisco, CA, USA.
3. **Leca JB**, Gunst N*, Vasey PL. (2014). Demographic estimation of the mona monkeys in Grenada: Explanations for the population decline and recommendations for conservation measures. Report submitted to the Department of Forestry, Ministry of Environment, and Ministry of Tourism, St George's, Grenada.
2. Gunst N, **Leca JB**. (2011). Census, socio-ecology, and population genetics of ebony leaf-eating monkeys (*Trachypitecus auratus*) in Bali: implications for the species' conservation status in Indonesia. Online Scientific Report to the Rufford Small Grants Foundation for Nature Conservation: http://www.rufford.org/rsg/projects/noelle_gunst
1. **Leca JB**, Gunst N. (2000). Quand les capucins s'amuse: comportements stereotypiques et enrichissement environnemental en zoo [When capuchins have fun: stereotypic behaviors and environmental enrichment in the captive settings of a zoo]. *ZooMulhouse* 28: 6-7 [in French].

CONFERENCE PRESENTATIONS AND PUBLISHED ABSTRACTS

Podium presentations as invited speaker (*: Leca lab's members)

16. **Leca JB**. (2020). How the brain got language? Insights from stone tool-making. *Modern Languages Speaker Series*, University of Lethbridge, Canada.
15. **Leca JB**. (2018). Human and animal cultures: Some similarities and differences. *Modern Languages Speaker Series*, University of Lethbridge, Canada.
14. **Leca JB**. (2018). Object/food bartering: A culturally-maintained token economy in free-ranging long-tailed macaques. *International Workshop: Economic Behaviors in Non-Human Primates*, Florence, Italy.
13. Vasey PL, **Leca JB**, Gunst N*. (2017). A Kinsey scale for monkeys? *Kinsey Institute*, University of Indiana, Bloomington, Indiana, USA.
12. **Leca JB**, Gunst N*, Vasey PL. (2015). The hows and whys of non-conceptive sex in Japanese macaques. *Annual meeting of the International Academy of Sex Research*, Toronto, Ontario, Canada. [Invited Plenary Speaker]
11. **Leca JB**, Gunst N*, Vasey PL. (2015). Female bisexual behavior of Japanese macaques: A Kinsey scale for

monkeys? *Puzzle of Sexual Orientation Meeting*, University of Lethbridge, Canada.

10. **Leca JB.** (2015). The *hows* and *whys* of intergroup variation in non-adaptive behaviours. *Summer Speaker Series at the Canadian Centre for Behavioural Neuroscience*, University of Lethbridge, Canada. Invitation: R.J. Belog.
9. **Leca JB.** (2015). Cultured monkeys. *Arts & Science Council meeting*, University of Lethbridge, Canada. Invitation: Dr. C. Cooper.
8. **Leca JB.** (2014). Arbitrary cultural behaviour patterns in macaques (ontogeny, mechanism, function, and phylogeny). *Department of Psychology Colloquium*, University of Lethbridge, Canada. Invitation: Dr. J. Sadr.
7. **Leca JB.** (2012). Object play as a cultural behavior in monkeys: The case of the stone handling tradition in Japanese macaques. *Summer Speaker Series at the Canadian Centre for Behavioural Neuroscience*, University of Lethbridge, Canada. Invitation: Dr. E. Zelinski.
6. **Leca JB.** (2012). Inter-group variation, social transmission, and maintenance of non-adaptive traditions in primates: The case of stone handling behaviour in Japanese macaques. *Visiting Speakers in Primatology Series*, Department of Anthropology, University of Calgary, Canada. Invitation: Dr. L.M. Fedigan.
5. **Leca JB,** Gunst N, Shimizu K, Toyoda A, Chalmers A, Asaba S, Tamada S, Mallard R, Vasey PL. (2012). Heterosexual and homosexual behaviour among female Japanese macaques at Arashiyama, Japan: Patterns of bisexuality over a seventeen-year period. *Annual Meeting of the Canadian Sex Research Forum, Symposium "Comparative research on same-sex sexuality"*, Ottawa, Canada. Invitation: Dr. D.P. VanderLaan.
4. **Leca JB.** (2011). Inter-group variation, social transmission, and maintenance of non-adaptive traditions in non-human primates: The case of stone handling behaviour in Japanese macaques (*Macaca fuscata*). *Department of Psychology Colloquium*, University of Lethbridge, Canada. Invitation: Dr. P. L. Vasey.
3. **Leca JB,** Gunst N, Nahallage C, Huffman MA. (2008). Stone handling in Japanese macaques: different approaches to an exaptive behavioral tradition. *Primatological Seminars*, Udayana University's Primate Research Center, Denpasar, Bali, Indonesia. Invitation: Dr. A. Rompis.
2. **Leca JB,** Huffman MA. (2008). Thirty years of stone handling tradition in Japanese macaques at Arashiyama: implications for stone-tool use evolution. *Annual Meeting of the Human Behavior and Evolution Society, Symposium "Half a century of research on the behavior and evolution of the Arashiyama macaques"*, Kyoto, Japan. Invitation: Dr. P.L. Vasey.
1. **Leca JB,** Gunst N, Nahallage C, Huffman MA. (2007). Stone handling as a behavioral tradition in Japanese macaques: Charting inter- and intra-group diversity and investigating ecological and socio-demographic contexts of transmission. *Annual Meeting of the American Society of Primatology, Symposium "Socially-mediated learning in groups of primates: Models and Methods"*, Winston-Salem, North Carolina, USA. Invitation: Dr. D.M. Fragaszy. *American Journal of Primatology*, 69, 77 (Abstract).

Other podium presentations (*: Leca lab's members)

36. **Leca JB,** Gunst N*, Gardiner M*, Bunselmeyer C*, Dunn C*, Williams R, Wandia IN, Addessi E. (In review). A culturally maintained token economy in free-ranging monkey. *57th Annual Conference of the Animal Behavior Society – Virtual Meeting* (to be presented online, July 28-30, 2020).
35. Pal A*, Mukhopadhyay K, **Leca JB,** Sinha A. (In review). A true monkey wrench? Multipurpose tool use and manufacture by wild bonnet macaques, *Macaca radiata*. *57th Annual Conference of the Animal Behavior Society – Virtual Meeting* (to be presented online, July 28-30, 2020).

34. Cenni C*, Casarrubea M, Pellis SM, Gunst N*, Vasey PL, Wandia IN, **Leca JB**. (In review). Object play as a behavioral specialization in a non-human primate species. *57th Annual Conference of the Animal Behavior Society – Virtual Meeting* (to be presented online, July 28-30, 2020).
33. Chertoff S*, Mitchell L, Cenni C*, **Leca JB**, Foroud A. (In review). Do monkeys fidget? Using movement analysis to understand causally opaque object manipulation. *57th Annual Conference of the Animal Behavior Society – Virtual Meeting* (to be presented online, July 28-30, 2020).
32. Aiempichitkijkarn N*, McCowan B, Wandia IN, **Leca JB**. (In review). Trade-off in robbing behavior in free-ranging Balinese long-tailed macaques at the Uluwatu temple. *57th Annual Conference of the Animal Behavior Society – Virtual Meeting* (to be presented online, July 28-30, 2020).
31. Chertoff S*, Harkness K*, Wandia IN, Foroud A*, **Leca JB**. (2019). Object manipulation as an expression of change in environmental stressors in long-tailed macaques and children. *13th Annual Meeting of the Minds – Multidisciplinary Research Conference*, University of Lethbridge, Canada.
30. Cenni C*, Wright CI*, Gunst N*, Wandia IN, **Leca JB**. (2019). Consistent sex differences in stone play and stone tool use in free-ranging Balinese long-tailed macaques. *88th Annual Meeting of American Association of Physical Anthropologists*, Cleveland, OH, USA.
29. Cenni C*, Wright CI*, Gunst N*, Vasey PL, **Leca JB**. (2018). Do male Balinese macaques use stones as sex toys to engage in tool-assisted masturbation? *4th Northeastern Evolutionary Primatology Meeting*, Canisius College, Buffalo, NY, USA.
28. Cenni C*, Mohak S*, Furby C*, Gunst N*, Vasey PL, **Leca JB**. (2018). Do Balinese monkeys use stones as sex toys? *12th Annual Meeting of the Minds – Multidisciplinary Research Conference*, University of Lethbridge, Canada.
27. Brotcorne F*, Holzner A*, Jorge Sales L*, Cambier C, Gunst N*, Wandia IN, **Leca JB**. (2017). Response facilitation in the robbing and bartering activities of Balinese long-tailed macaques. *European Federation for Primatology Meeting*, Strasbourg, France. *Folia Primatologica*, 88, 133 (Abstract).
26. Pelletier AN*, Sita S*, Neugebauer E*, Gunst N*, Pellis SM, **Leca JB**. (2017). Comparative analysis of two object manipulation activities in Balinese long-tailed macaques. *Animal Behavior Society – 54th Annual Conference*, University of Toronto Scarborough, Canada.
25. Kaufmann T*, Pelletier AN*, Sita S*, Neugebauer E*, Gunst N*, Vasey PL, **Leca JB**. (2017). Testing the “sex toy” hypothesis in Balinese monkeys playing with stones. *11th Annual Meeting of the Minds – Multidisciplinary Research Conference*, University of Lethbridge, Canada.
24. Pelletier AN*, Kaufmann T*, Sita S*, Neugebauer E*, Gunst N*, Pellis SM, **Leca JB**. (2017). Comparative analysis of two object manipulation activities in Balinese long-tailed macaques. *11th Annual Meeting of the Minds – Multidisciplinary Research Conference*, University of Lethbridge, Canada.
23. **Leca JB**, Brotcorne F*, Gunst N*, Holzner A*, Pelletier AN*, Nahallage CAD, Huffman MA, Rompis A, Wandia IN. (2016). Two forms of material culture in Balinese long-tailed macaques: the stone handling and token exchange traditions. *Joint meeting of the International Primatological Society and the American Society of Primatologists*, Chicago, IL, USA.
22. Gunst N*, **Leca JB**, Vasey PL. (2016). Female mounting behavior in Japanese macaques (*Macaca fuscata*): a non-conceptive sexual culture? *Joint meeting of the International Primatological Society and the American Society of Primatologists*, Chicago, IL, USA.
21. Huffman MA, Nahallage CAD, **Leca JB**. (2016). What is macaque about Lomekwian stone tool use? The role of predispositions and ecological opportunities for the emergence of stone tool use. *Primate*

Archaeology Workshop, Oxford University School of Archaeology, Oxford, UK.

20. Brotcorne F*, **Leca JB**, Gunst N*, Wandia IN, Fuentes A, Huynen MC. (2015). Monkey business: Inter-group differences in the object/food bartering practice in Balinese macaques (*Macaca fascicularis*) at the Uluwatu Temple, Indonesia. *European Federation for Primatology Meeting*, Roma, Italy. *Folia Primatologica*, 86, 251 (Abstract).
19. Vasey PL, **Leca JB**, Gunst N*. (2015). Female homosexual behaviour in Japanese macaques: current research developments. Department of Biology, Boston University, USA.
18. **Leca JB**, Gunst N*, Ottenheimer Carrier L*, Vasey PL. (2014). Inter-group variation in non-conceptive sexual activity in female Japanese macaques: Could it be cultural? *Biennial Meeting of the International Society for Comparative Psychology*, Bogotá, Colombia.
17. **Leca JB**, Gunst N, Vasey PL. (2013). Long-term trends in female bisexual behavior of Japanese macaques: A Kinsey scale for monkeys? *Annual meeting of the International Academy of Sex Research*, Chicago, Illinois, USA.
16. **Leca JB**, Gunst N, Shimizu K, Toyoda A, Chalmers A, Asaba S, Tamada S, Mallard R, Vasey PL. (2012). Bisexual monkeys: Long-term trends in heterosexual and homosexual behaviors in female Japanese macaques. *Annual Meeting of the Human Behavior and Evolution Society*, Albuquerque, New Mexico, USA.
15. **Leca JB**. (2010). The Japanese macaques of Arashiyama: Demographic studies, behavioral research and management efforts. *Congress of the International Primatological Society*, Kyoto, Japan. *Reichorui Kenkyu/Primate Research*, 26, 67 (Abstract).
14. **Leca JB**, Gunst N, Huffman MA. (2010). Thirty years of stone handling tradition in Japanese macaques: Implications for cumulative culture and stone-tool use evolution. *Congress of the International Primatological Society*, Kyoto, Japan. *Reichorui Kenkyu/Primate Research*, 26, 71 (Abstract).
13. **Leca JB**, Gunst N, Huffman MA. (2009). Determinants of behavioral innovations and constraints on their diffusion and maintenance in Japanese macaques. *Annual Meeting of Primate Society of Japan*, Gifu, Japan. *Reichorui Kenkyu/Primate Research*, 25, 14-15 (Abstract).
12. **Leca JB**, Gunst N, Nahallage C, Huffman MA. (2008). Stone handling in Japanese macaques: An exaptive traditional behavior? *Congress of the International Primatological Society*, Edinburgh, Scotland. *Primate Eye*, 96, #689 (Abstract).
11. **Leca JB**, Huffman MA. (2008). Comparative and longitudinal approaches in cultural primatology: the case of stone handling behavior in Japanese macaques. *Annual Meeting of Primate Society of Japan*, Tokyo, Japan. *Reichorui Kenkyu/Primate Research*, 24, 11 (Abstract).
10. **Leca JB**, Gunst N, Nahallage C, Huffman MA. (2006). Stone handling in Japanese macaques: A 10-troop comparative study about a behavioral tradition. *Annual Meeting of the American Society of Primatology*, San Antonio, Texas, USA. *American Journal of Primatology*, 68, 110-111 (Abstract).
9. Huffman MA, **Leca JB**, Gunst N, Nahallage C. (2005). Stone handling as a behavioral tradition: A comparative study in 10 troops of Japanese macaques (*Macaca fuscata*). *St. Andrews International Conference on Animal Social Learning*, St. Andrews, Scotland.
8. Huffman MA, **Leca JB**, Gunst N, Nahallage C. (2005). Stone-handling, behavior in Japanese macaques, a multiple site comparative study. *Cultural Conference 2005*, Leipzig, Germany.
7. **Leca JB**, Gunst N, Nahallage C, Huffman MA. (2004). Stone handling as a behavioral tradition: A comparative study in nine troops of Japanese macaques (*Macaca fuscata*). *Annual Meeting of Primate Society of Japan*, Inuyama, Japan. *Reichorui Kenkyu/Primate Research*, 20 (suppl.), 25 (Abstract).

6. **Leca JB**, Gunst N, Thierry B, Petit O. (2002). Group movement and decision-making process in semi-free ranging white-faced capuchins: Effects of social, behavioral and spatiotemporal variables. *European Conference on Behavioural Biology, Symposium « collective movements »*, Münster, Germany.
5. **Leca JB**, Gunst N, Petit O. (2002). Use of fruit in fur rubbing by white-faced capuchins: Behavioral processes and social function or medicinal plant use? *Co-Meeting of the Society of Ecophysiology and the French-Speaking Society of Primatology*, Strasbourg, France.
4. **Leca JB**, Petit O. (2001). Aggression and reconciliation in white-faced capuchins (*Cebus capucinus*). *Annual Meeting of the French-Speaking Society of Primatology*, Rennes, France.
3. Petit O, **Leca JB**, Thierry B. (2001). Group movement in semi-free ranging white-faced capuchins (*Cebus capucinus*). *Annual Meeting of the French-Speaking Society of Primatology*, Rennes, France.
2. **Leca JB**, Gunst N, Théraulaz G, Petit O, Thierry B. (2000). Group movement in semi-free ranging white-faced capuchins. *Annual Meeting of the French Society of Animal Behavior Study*, Lyon, France.
1. **Leca JB**, Fornasieri I, Petit O. (1999). Agonistic and post-conflict interactions in white-faced capuchins, *Cebus capucinus*. *Annual Meeting of the French Society of Animal Behavior Study*, Nice, France.

Poster presentations (*: Leca lab's members)

17. Chertoff S*, Harkness K*, Wandia IN, Foroud A*, **Leca JB**. (2019). When is object manipulation an expression of psychological disturbance caused by environmental stressors? A macaque-human comparison. *88th Annual Meeting of American Association of Physical Anthropologists*, Cleveland, OH, USA.
16. Cenni C*, Wright CI*, Casarrubea M, Gunst N*, Vasey PL, **Leca JB**. (2018). Are stones being used as sex toys by Balinese macaques? *Association for the Study of Animal Behaviour Winter Meeting*, Zoological Society of London, London, UK.
15. Cenni C*, Wright CI*, Casarrubea M, Gunst N*, Vasey PL, **Leca JB**. (2018). Were stones our ancestral sex toys? Tool-assisted genital stimulation in free-ranging Balinese macaques. *Primate Society of Great Britain Winter Meeting*, Bristol Zoological Society, Bristol, UK.
14. Chertoff S*, **Leca JB**, Foroud A*. (2018). Were stones our ancestral fidget spinners? A macaque-human comparison of fidgeting. *4th Northeastern Evolutionary Primatology Meeting*, Canisius College, Buffalo, NY, USA.
13. Pelletier AN*, Sita S*, Neugebauer E*, Wandia IN, Gunst N*, Pellis SM, **Leca JB**. (2017). Structural differences in pounding actions performed by Balinese long-tailed macaques. *Community University Research Exchange (CURE)*, University of Lethbridge, Canada.
12. Vomberg L*, **Leca JB**. (2017). Personality and degree of religiosity in Judaism in a North American population sample. *Undergraduate Research Showcase*, University of Lethbridge, Canada.
11. Vomberg L*, **Leca JB**. (2017). Personality and degree of religiosity in Judaism in a North American population sample. *11th Annual Meeting of the Minds – Multidisciplinary Research Conference*, University of Lethbridge, Canada.
10. Davis E*, Mather J, **Leca JB**. (2017). Wellness within the Bhutanese Community of Lethbridge, Alberta. *Community University Research Exchange (CURE)*, University of Lethbridge, Canada.
9. Pelletier AN*, Huffman MA, Nahallage CAD, Gunst N*, **Leca JB**. (2016). Comparing stone play in two macaque species. *10th Annual Meeting of the Minds – Multidisciplinary Research Conference*, University of Lethbridge, Canada.

8. Pelletier AN*, Huffman MA, Nahallage CAD, Gunst N*, **Leca JB**. (2016). Comparing stone play in two macaque species. *2016 Prairie University Biology Symposium*, University of Lethbridge, Canada.
7. Gunst N*, **Leca JB**, Vasey PL. (2015). Male-bonded dyads in the mona monkeys of Grenada, West Indies: Potential for male bisexual behaviour in primates? *Puzzle of Sexual Orientation Meeting*, University of Lethbridge, Canada.
6. **Leca JB**, Gunst N, Vasey PL. (2013). Comparative development of heterosexual and homosexual behaviors in adolescent female Japanese macaques. *Annual meeting of the International Academy of Sex Research*, Chicago, Illinois, USA.
5. Ottenheimer Carrier L, Pellis SM, **Leca JB**, Gunst N, Vasey, PL. (2013). Homosexual and heterosexual mounting in female Japanese macaques: A preliminary postural analysis. *Annual meeting of the International Academy of Sex Research*, Chicago, Illinois, USA.
4. Toyoda A, Gunst N, **Leca JB**, Ishiguro R, Vasey PL, Shimizu K. (2012). Reproductive hormones and sexual behavior in aged Japanese macaques. *5th Meeting of Asian Society of Zoo and Wildlife Medicine*, Bangkok, Thailand.
3. Toyoda A, Gunst N, **Leca JB**, Ishiguro R, Vasey PL, Shimizu K. (2012). Sex hormones and mating behavior in aged Japanese macaques. *Annual Meeting of Primate Society of Japan*, Nagoya, Japan. [Reichorui Kenkyu/Primate Research](#) 28: 17 (Abstract).
2. Huffman MA, **Leca JB**, Nahallage C. (2009). Cultured Japanese macaques: a multi-disciplinary approach to stone handling behavior and its implications for the evolution of behavioral traditions in non-human primates. *International Congress on the Future of Animal Research: Biomedical and Field Research with Nonhuman Primates*, Nakhon Patham, Thailand.
1. Gunst N, **Leca JB**, Daki N, Petit O. (2002). Use of fruit in fur rubbing by white-faced capuchins: behavioral processes and social function or medicinal plant use? *First European Conference on Behavioural Biology*, Münster, Germany.

RESEARCH EXPERIENCE AND SCIENTIFIC COLLABORATIONS

2015-present	Principal Investigator: The hows and whys of non-adaptive cultural behaviors in macaques . Department of Psychology, University of Lethbridge, Canada.
2014-present	Co-investigator: Male bisexual behaviour in all-male and mixed-sex groups of mona monkeys (<i>Cercopithecus mona</i>) in Grenada, West Indies . Department of Psychology, University of Lethbridge, Canada (collaborators: Drs. P. L. Vasey and N. Gunst).
2010-present	Co-investigator: Sexual behaviour, mate choice, and sex hormones in Japanese macaques (<i>Macaca fuscata</i>) . Department of Psychology, University of Lethbridge, Canada (collaborators: Dr. P. L. Vasey and Dr. N. Gunst).
2010	Visiting Researcher: Object manipulation in free-ranging Balinese long-tailed macaques (<i>Macaca fascicularis</i>); Census and geographic distribution of ebony leaf monkeys (<i>Trachypithecus auratus</i>) in West Bali National Park . Primate Research Center, Udayana University, Jimbaran, Bali, Indonesia (Host Researcher: Dr. N. Wandia).
2007-2009	Post-doctoral Fellow: Behavioral innovation and traditions in Japanese macaques: Social learning and socio-ecological factors . Primate Research Institute, Kyoto University, Inuyama, Japan (Post-doctoral Advisor: Dr. M. A. Huffman).
2006	Research Associate: Leadership and group decision in white-faced capuchin monkeys

- (*Cebus capucinus*)**. Département d'Ecologie, Physiologie et Ethologie, Institut Pluridisciplinaire Hubert-Curien, Strasbourg, France (Advisors: Drs. B. Thierry and O. Petit).
- 2003-2005 Post-doctoral Fellow: **Behavioral innovation and traditions in Japanese macaques: Ethnographic approach and demographic factors**. Primate Research Institute, Kyoto University, Inuyama, Japan (Post-doctoral Advisor: Dr. M. A. Huffman).
- 1998-2002 Ph.D. Dissertation: **Dominance, social negotiation and decision making process in white-faced capuchins**. Department of Ecology, Physiology and Ethology, University Louis Pasteur, Strasbourg, France (Co-supervisors: Drs. B. Thierry and O. Petit).
- 2001 & 2003 Field assistant: **Ecology and cognition: foraging behavior in wild brown capuchins (*Cebus apella*)**. Raleighvallen Nature Reserve, Suriname (Supervisor: Dr. S. Boinski).
- 1999 Research assistant: **Quantitative evaluation and cartography of ribbed Mediterranean limpet (*Patella ferruginea*, *Mollusca*) in marine areas polluted by hydrocarbons in Lavezzi island**. International Marine Park, Corsica, France (Advisor: Dr. G.-F. Frisoni).
- 1999 Research assistant: **Environmental enrichment in captive yellow-breasted capuchins (*Cebus xanthosternos*): Introduction of foraging apparatuses to reduce stereotypic behaviors**. Zoological garden of Mulhouse, France (Advisor: Dr. P. Moisson).
- 1998 Field assistant: **Influence of age and individual quality on reproduction strategies in blackbird (*Turdus merula*)**. Laboratory of Ecology, University of Dijon, France (Supervisor: Dr. F. Cézilly).
- 1996-1998 Master's thesis: **Agonistic and post-conflict behaviors in white-faced capuchins**. Department of Ecology, Physiology and Ethology, University Louis Pasteur, Strasbourg, France (Co-Advisors: Drs. O. Petit and I. Fornasieri).
- 1995 Research assistant: **Opiates and analgesia in rats (*Rattus norvegicus*): Evaluation of the tail-flick procedure**. Laboratory of Psychobiology of Adaptive Behaviors, University of Bordeaux, France (Supervisor: Dr. G. Laulin).
- 1994 Research assistant: **Ethopharmacological analysis of the acquisition of opiate withdrawal-induced conditioned place aversion in rats**. Laboratory of Psychobiology of Adaptive Behaviors, University of Bordeaux, France (Supervisor: Dr. L. Stinus).

TEACHING EXPERIENCE

Posts/Courses

2014-present **Assistant/Associate Professor**, Department of Psychology, University of Lethbridge, Canada

Courses:

- *Cultural Organisms* (PSYC 4000-level Seminar course)
- *Human and Animal Interactions* (PSYC 3000-level Lecture course)
- *Animal and Human Personalities* (PSYC 3000-level Lecture course)
- *Social Learning and Culture* (PSYC 3000-level Lecture course)
- *Psychobiology of Religious Behaviour* (PSYC 3000-level Lecture course)
- *The need for a cross-cultural approach* (guest lecture in *Social Learning and Culture*, PSYC 3000-level Lecture course)
- *Social learning and cultural behaviors in humans, other primates and other animals* (guest lecture in *Primates in Perspective*, PSYC 3000-level Lecture course, by Dr. Noëlle Gunst)

- *A Tinbergian approach to religious behaviour* (guest lecture in *Studying Religion as an Academic Discipline*, RELS 2000-level Lecture course, by Dr. James Linville)
- *How and Why Do Human and Nonhuman Cumulative Cultures Differ?* (PSYC 1000-level Lecture course)
- *How to Capture What We Really Are? Core Methodological Issues in Personality Research* (PSYC 1000-level Lecture course)

2011-2014 **Sessional Lecturer**, Department of Psychology, University of Lethbridge, Canada
Courses:

- *Introduction to Primatology* (PSYC 2000-level Lecture course)
- *Primate Lives and Human Cognitive Evolution* (PSYC 3000-level Lecture course)
- *Primate Social Learning and Culture* (PSYC 4000-level Seminar course)

1998-2002 **Instructor**, Department of Ecology, Physiology and Ethology, University Louis Pasteur, Strasbourg, France
Courses:

- *Primate Ethology* (Lecture course)
- *Ethology* (Laboratory course)
- *Introductory Course in Ethology and Behavioural Ecology* (Laboratory course)
- *Methodology in Animal Behaviour Studies* (Laboratory course)
- *Evolution of Reproductive and Social Behaviours* (Lecture and laboratory course)
- *Primate Cognition* (Lecture and laboratory course)
- *Introduction to Primate Studies: Psychology, Anthropology, Behavioural Ecology, Biomedical Research, and Conservation Issues* (Lecture course)
- *Neurophysiology* (Lecture and laboratory course)
- *Developmental Biology and Elementary Embryology* (Laboratory course)

Audience Undergraduate and graduate students in Psychology
Veterinarians and laboratory technicians in continuing education

Other instructional experience

- 2014 **Field Class Instructor** in Grand Etang National Park: “The mona monkeys of Grenada”, Elementary School, Grenville, Grenada.
- 2008 **Invited Lecturer** (talk and practical work): *Stone handling in Japanese macaques: Different approaches to studying a behavioral tradition* (in English): Science Dialogue Program/JSPS, Yoshida High School, Yamanashi Pref., Japan.
http://www.jsps.go.jp/english/e-plaza/e-sdialogue/2008d/1206_yoshida.html
- 2006-2007 **Tutorship for one undergraduate student**, University of Georgia, Athens, USA: French/English language program.
- 2000-2001 **Tutorship for 8 first year-students**, University Louis Pasteur, Strasbourg, France:
 - *Vocational Project* (Lecture and laboratory class)
 - *Work Methodology at University* (Lecture and laboratory class).

SUPERVISORY EXPERIENCE

High Quality Personnel (HQP) training and student supervision (*: co-supervision)

Research Associate (2015-present), Department of Psychology, University of Lethbridge: Noëlle Gunst, Ph.D., “The hows and whys of non-adaptive cultural behaviors in macaques”, supported by my NSERC – Discovery Grant.

Post-Doctoral Fellow* (2019-2021), Department of Psychology, University of Lethbridge: Arijit Pal, Ph.D., “Affordance learning: From object play to tool use?”, funded by a General Grant from the Leakey Foundation (co-supervision with Dr. A. Sinha).

Post-Doctoral Fellow (2015-2016), Department of Psychology, University of Lethbridge: Fany Brotcorne, Ph.D., “Object/food bartering as a traditional token economy in Balinese long-tailed macaques”, funded by my Start-Up Allowance from the Dean’s Office of the Faculty of Arts and Science.

Ph.D. candidate (2018-present), Department of Psychology, University of Lethbridge: Camilla Cenni, “Mechanisms of object play and tool use in macaques”, supported by my NSERC – Discovery Grant.

M.Sc. candidate* (2020-present), Master in Primatology, University of Girona, Spain: Valeria Albanese, “Does object play facilitate the acquisition of tool use? Experimental study in captive long-tailed macaques”, self-funded student (co-supervision: Dr. M. Lorente).

M.Sc. candidate* (2018-present), Department of Psychology, University of Lethbridge: Sydney Chertoff, “Psychology of fidgeting behaviors and other highly repetitive object-directed actions in macaques and children”, supported by my NSERC – Discovery Grant (co-supervision with Dr. A. Foroud).

M.Sc. degree (2016-2017), Department of Psychology, University of Lethbridge: Amanda Pelletier, “What can behavioural structure tell us about motivation? Insights from object play and foraging in Balinese long-tailed macaques”, supported by my NSERC – Discovery Grant.

M.Sc. degree* (2013-2015), Department of Psychology, University of Lethbridge: Lydia Ottenheimer Carrier, M.Sc., “Female mounting in Japanese macaques: Proximate and ultimate perspectives on non-conceptive sex” (co-supervision with Dr. P. L. Vasey).

Graduate Research Assistants (2015-present), Department of Psychology, University of Lethbridge, partly supported by my NSERC – Discovery Grant, and my Start-Up Allowance from the Dean’s Office of the Faculty of Arts and Science:

- Matthew Gardiner, M.Sc., “Development of an ecologically valid non-human primate model of gambling” (Jul. – Dec. 2019).
- Caleb Bunselmeyer, B.Sc., “Development of an ecologically valid non-human primate model of gambling” (Jul. – Dec. 2019).
- Christian Dunn, B.A., “Development of an ecologically valid non-human primate model of gambling” (Jul. – Dec. 2019).
- Nalina Aiempichitkijkarn, M.Sc., “Robbing and bartering behaviors in Balinese long-tailed macaques” (Jul. – Sept. 2019).
- Bess Christie, M.Sc., “Object play and tool use in Balinese long-tailed macaques” (Apr. – Aug. 2019).
- Danielle Van der Pant, B.Sc., “Object play and tool use in Balinese long-tailed macaques” (Apr. – Aug. 2019).
- Sydney Chertoff, B.Sc., “Behavioral structure and motivational processes of object play in Balinese long-tailed macaques” (Apr. – Aug. 2018).
- Chloë Wright, M.Sc., “Stone handling as a precursor to stone tool use in Balinese long-tailed macaques” (Apr. – Aug. 2018).
- Jamie Schnell, B.Sc., “Tap on groin behavior as a form tool-assisted genital stimulation in Balinese long-tailed macaques” (Sept. 2017).
- Lilah Sciaky, B.A., “Response facilitation of stone handling behavior in Balinese long-tailed macaques” (Apr. – Aug. 2017).
- Tatjana Kaufmann, M.Sc., “Object play, complex foraging and tool use in Balinese macaques: a developmental and structural approach” (Jan. – Apr. 2017).
- Daniela Rodrigues, M.Sc., “Comparative structural analysis of stone handling and nut handling behaviors in Balinese long-tailed macaques” (Oct. 2016).
- Molly Gilmour, M.Sc. candidate, “Comparative structural analysis of stone handling and nut handling behaviors in Balinese long-tailed macaques” (Oct. 2016).
- Montana Hull, M.Sc., “Social and personality correlates of object manipulation in Balinese long-tailed macaques” (Sept. 2016).

- Silvana Sita, M.Sc., “Proximate and ultimate causes of material culture in Balinese long-tailed macaques (stone handling, extractive foraging, tool use)” (Apr. – Oct. 2016).
- Elenora Neugebauer, M.Sc. candidate, “From stone handling to stone tool use cultures in Balinese long-tailed macaques” (Apr. – Aug. 2016).
- Lucía Jorge Sales, M.Sc., “Social and personality correlates of the object/food bartering practice in Balinese long-tailed macaques” (Apr. – Aug. 2016).
- Anna Holzner, M.Sc., “Object/food bartering as a traditional token economy in Balinese long-tailed macaques” (Sept. 2015 – Apr. 2016)

Undergraduate Research Assistants (1999-present)

- Primate Centre, Udayana University, Bali, Indonesia (Riris Manullang, Betta Tarigan).
- Primate Research Institute, Kyoto University, Japan (Natasha Toworski, Aru Toyoda).
- Primate Centre, University Louis Pasteur, France (Nadia Daki, H  l  ne Meunier).

Undergraduate Honours Thesis, Department of Psychology, University of Lethbridge:

- Erin Davis, “A study of wellness within the Bhutanese community of Lethbridge” (co-supervisor, along with Dr. Jennifer Mather, 2016).
- Aysu Calik, “Domains of sexual aversion and disgust” (Thesis Reader; supervisor: Dr. Paul Vasey, 2019).
- Nathan Grigg, “The importance of olfaction in New World vultures: a comparative neuroanatomical study” (Thesis Reader; supervisor: Dr. Andrew Iwaniuk, 2015-2016).

Independent Study students, Department of Psychology, University of Lethbridge:

2020

- Christopher Fitzgerald: “Neurophysiology of religious experience”
- Mackenzie Salmon: “Video analysis of economic behavior in monkeys” (co-supervised by Dr. No  lle Gunst)
- Taylor Thomas: “Maladaptive religious practices”

2019

- Casey Bannister: “Social cognition in monkeys via video analysis of behavior” (co-supervised by Dr. No  lle Gunst)
- Graham Bowden: “Primate personality and economic behavior” (co-supervised by Dr. No  lle Gunst)
- Graham Bowden: “Social cognition in monkeys via video analysis of behavior” (co-supervised by Dr. No  lle Gunst)
- Courtney Derksen: “Social cognition in monkeys via video analysis of behavior” (co-supervised by Dr. No  lle Gunst)
- Hadyn Dresser: “Cognition and situational learning in nonhuman animals” (co-supervised by Dr. No  lle Gunst)
- Keana Funk: “Rhythmic sound-producing stone-directed play in monkeys”
- Keana Funk: “Primate personality and economic behavior” (co-supervised by Dr. No  lle Gunst)
- Kyla Funk: “Manipulation of symbolic tools in monkeys” (co-supervised by Dr. No  lle Gunst)
- Kelsey Harkness: “Analysis of fidgeting as a predictor of emotional states”
- Edwin Jada: “Social cognition in monkeys via video analysis of behavior” (co-supervised by Dr. No  lle Gunst)
- Bilise Kito: “Social cognition in monkeys via video analysis of behavior” (co-supervised by Dr. No  lle Gunst)
- Logan Page: “Psychological mechanisms and evolution of rituals”
- Logan Page: “Cross-species and cross-cultural phylogeny of ritual behavior”
- Drayton Pratt: “Cognition and situational learning in nonhuman animals” (co-supervised by Dr. No  lle Gunst)
- Drayton Pratt: “Social cognition in monkeys via video analysis of behavior” (co-supervised by Dr. No  lle Gunst)
- Ghazal Singh: “Social cognition in monkeys via video analysis of behavior” (co-supervised by Dr. No  lle Gunst)
- Melissa Steinkey: “Social cognition in monkeys via video analysis of behavior” (co-supervised by Dr.

Noëlle Gunst)

- Jessica Thiessen: "Social cognition in monkeys via video analysis of behavior" (co-supervised by Dr. Noëlle Gunst)
- Hilary Williams: "Video analysis of stone play behavior in Balinese monkeys"

2018

- Stephanie Blencowe: "Object manipulation in monkeys"
- Caleb Fernell: "Achievement goal theory: Motivation and applications"
- Caitlin Furby: "Temporal structural analysis of object play behavior in macaques"
- Kelsey Harkness: "Video analysis of object manipulation in monkeys"
- Hayley Johnson: "Psychobiology of the belief in conspiracy theories"
- Corinne Marshall: "Psychology of object play and tool use in children"
- Makita Mikuliak: "Psychobiology of religious behavior and obsessive-compulsive disorder"
- Jessica Thiessen: "Behavioral mechanisms of female-male mounting in Japanese macaques" (co-supervised by Dr. Noëlle Gunst)
- Samantha Tinworth: "Video analysis of object play behaviour in monkeys"
- Brittany Toth: "Repetitive object play in monkeys"

2017

- Caleb Fernell: "Evidence-based assessment of religious coping strategies"
- Ryan Fukuda: "The evolution of religious beliefs"
- Caitlin Furby: "Tool-assisted masturbation in Balinese long-tailed macaques"
- Emmanuel Ipa: "Video analysis of monkey behaviour"
- Sidhesh Mohak: "Kinematic analysis of goal-directed behavior in primates"
- Jessica Sonmor: "Video analysis of stone play behaviour in monkeys"
- Stephanie Varsanyi: "Behavioral mechanisms of female-male mounting in Japanese macaques" (co-supervised by Dr. Noëlle Gunst)

2016

- Samantha Lasante: "Personality and prejudice towards homosexuals"
- Sidhesh Mohak: "Manual coordination in object play by non-human primates"
- Ashna Prakash: "Many Gods' many voices: Psychosis in the Hindu religion"
- Lyndsay Tomm: "HEXACO personality traits and religiosity in a sample of undergraduate students"
- Lyndsay Tomm: "Personality and religious orientation"
- Lindsay Tymchyna: "Personality in backpackers versus non-backpackers"
- Lauren Vomberg: "Personality and religious fundamentalism"
- Lauren Vomberg: "Statistical analysis of personality and degree of religiosity in Judaism"
- Jessica Vos: "Religiosity and prejudice towards homosexuals"

2015

- Tracy Fillion: "A proximate perspective on religious behavior and belief: ontogenetic processes and causal mechanisms"
- Riane McCallum: "Stone handling repertoire in long-tailed macaques"
- Melissa McKinnon: "An ultimate perspective on religious behavior and belief: functional components and evolutionary history"
- Amanda Pelletier: "Structure of the stone handling behaviour in Balinese long-tailed macaques"

2012

- David Baran: "Homosociality in humans" (co-supervised by Dr. Paul Vasey)

Applied Study students, Department of Psychology, University of Lethbridge:

- Caleb Fernell: "Therapeutic Arts in Native American Culture" (Summer 2018)
- Sidhesh Mohak: "Object play and tool in young children" (Spring 2018; co-supervised by Dr. Afra Foroud)
- Amanda Maki: "Effects of equine-assisted therapy on children with psychological disorders and physical disabilities" (Summer 2017)
- Rosemary Boisson: "Integration of Syrian refugees into the Canadian society" (Spring 2017)

Graduate supervisory committees

2019

Chair of Thesis Examination Committee, Department of Psychology, University of

Lethbridge: “Etudier le français: Pourquoi pas? Motivation, participation et faux amis dans cours de français, langue seconde à l'école secondaire en Alberta” (Steven Gillis, M.A. candidate, under the supervision of Dr. Alain Takam).

- 2019-present **M.Sc. candidate**, Department of Psychology, University of Lethbridge: “Relative deprivation, stress, and risk-taking” (Anthony Schoen, under the co-supervision of Dr. Scott Allen and Dr. Jennifer Williams).
- 2017-present **Ph.D. candidate**, Department of Psychology, University of Lethbridge: “Conditions promoting and preventing social learning among the vervets” (Christina Nord, under the co-supervision of Dr. Louise Barrett and Dr. Peter Henzi).
- 2017-present **Ph.D. candidate**, Department of Psychology, University of Lethbridge: “Mechanisms and evolution of male androphilia in the Istmo Zapotec” (Francisco Gómez, under the supervision of Dr. Paul Vasey).
- 2016-present **Ph.D. candidate**, Department of Psychology, University of Lethbridge: “Inter-sexual mate competition: A previously unrecognized factor in the evolution of human mating” (Scott Semenyina, under the supervision of Dr. Paul Vasey).
- 2016-present **Ph.D. candidate**, Department of Psychology, University of Lethbridge: “Male sexual orientation: a cross-cultural perspective” (Lanna Petterson, under the supervision of Dr. Paul Vasey).
- 2015-2017 **M.Sc. candidate**, Department of Biological Science, University of Lethbridge: “The genetic basis of plumage polymorphism and behaviour in ruffed grouse” (Ashley Jensen, under the co-supervision of Dr. Theresa Burg and Dr. Andrew Iwaniuk).
- 2015-2017 **M.Sc. candidate**, Department of Psychology, University of Lethbridge: “Cross-culturally invariant aspects of male androphilia in the Istmo Zapotec” (Francisco Gómez, under the supervision of Dr. Paul Vasey).
- 2015-2017 **M.Sc. candidate**, Department of Neuroscience, University of Lethbridge: “The expression of nonapeptide receptors in relation to mating system in Richardson's ground squirrels” (Juliana Araújo, under the supervision of Dr. Andrew Iwaniuk).
- 2015 **Chair of Thesis Examination Committee**, Department of Psychology, University of Lethbridge: “Bullying, physical aggressivity, gender atypicality, and sexual orientation in males” (Scott Semenyina, M.Sc. candidate, under the supervision of Dr. Paul Vasey).
- 2009-2010 **Ph.D. evaluation committee member**, Primate Research Institute, Kyoto University, Japan: “The effects of environmental differences on behavioural budgets and feeding strategies of captive Japanese macaques, *Macaca fuscata*” (Mohammad Firoj Jaman)

ACADEMIC SERVICES AND PROFESSIONAL CONTRIBUTIONS

Service activities for the Department of Psychology

- Departmental representative of the Campus Incident Response Team (CIRT; Sept. 2019 – present)
- Psychology Curriculum Committee (Oct. 2018 – present)
- Academic Timetable Working Group member (Apr. 2018 – present): Liaison between the Registrar's Office and the Department of Psychology to facilitate the Institutional Academic Timetable Project
- Lab Cluster Leader (Sept. 2018 – present): Liaison between the Science and Academic Building and the Department of Psychology to facilitate the move and address post-move concerns

- Departmental Library Representative (Jul. 2017 – June 2018)
- Departmental Self-Study Report Committee (Jul. 2016 – present): Ongoing Departmental Review
- Departmental Chair Selection Committee (Jul. 2015 – present): 2 applications reviewed
- Departmental Job Search Committee (Jul. 2014 – present): 17 applications reviewed (adjunct faculty and instructor positions)
- Departmental Graduate Education Committee (Jul. 2014 – present): 20 MSc and 10 PhD applications reviewed

Service activities for the University of Lethbridge

- Master of Science Program Committee (2019 – 2021)
- External alternate faculty member for the Search and Chair Selection Committee in the Department of Modern Languages and Linguistics (2019 – 2020)
- Psychology Department Representative for the Animal Welfare Committee (2019 – present)
- Judge for the Qualifying Heats of the annual *Three Minute Thesis competition* (3MT®), hosted by the School of Graduate Studies (2018, 2019, 2020)
- General Faculties Council – Research Committee (2016 – present)
 - ULRF Adjudication Committee: 19 applications reviewed
 - Chinook Summer Grant Adjudication Committee: 51 applications reviewed
 - Graduate SSHRC Vanier and Doctoral Scholarship Adjudication Committee: 27 applications reviewed
- NSERC Undergraduate Student Research Award (USRA) Adjudication Committee (2014 – present): 110 applications reviewed
- Lab Cluster Leader and Move Coordinator: Liaison between the Department of Psychology and Move staff at the new Science and Academic Building at the University of Lethbridge (2018 – present)
- Participant in *Destination Project “super-week”* meetings: Design and construction of a new Science and Academic Building at the University of Lethbridge (2016 – 2018)

Peer reviewer for scientific journals (total number of reviews: 87)

Advances in Zoology (1), *American Journal of Physical Anthropology* (2), *American Journal of Primatology* (11), *Animal Behaviour* (5), *Anthropological Science* (1), *Archives of Sexual Behavior* (6), *Behavioral Ecology* (1), *Behaviour* (5), *Behavioural Processes* (3), *Biology Letters* (2), *BMC Evolutionary Biology* (1), *Canadian Journal of Behavioural Science* (1), *Cognitive Science* (1), *Current Biology* (1), *Ethology* (1), *Evolutionary Psychological Science* (2), *Folia Primatologica* (2), *Frontiers in Psychology* (6), *Human Nature* (2), *International Journal of Comparative Psychology* (1), *International Journal of Primatology* (2), *Journal of Comparative Psychology* (1), *Journal of Ethology* (3), *Journal of Neuroscience, Psychology, and Economics* (2), *Neuroscience and Biobehavioral Review* (1), *Palgrave Communications – Nature* (2), *PeerJ* (1), *Philosophical Transactions of the Royal Society B* (1), *PLoS ONE* (4), *Primates* (9), *Revue de Primatologie* (1), *Scientific Reports* (5), *Zoological Studies* (1)

Book reviewer for *Choice: Current Reviews for Academic Libraries* (total number of book reviews: 17)

- *The Selfish Ape: Human Nature and Our Path to Extinction*, by Nicholas P. Money. Reaktion Books, 2019.
- *Animals, Anthropomorphism and Mediated Encounters*, by Claire Parkinson. Routledge, 2020. [\[link\]](#)
- *The Goodness Paradox – The Strange Relationships Between Virtue and Violence in Human Evolution*, by Richard Wrangham. Pantheon Books, 2019. [\[link\]](#)
- *The Ape that Understood the Universe – How the Mind and Culture Evolve*, by Steven Steward-Williams. Cambridge University Press, 2018. [\[link\]](#)
- *Through a Glass Brightly: Using Science to See Our Species as We Really Are*, by David P. Barash. Oxford University Press, 2018. [\[link\]](#)

- *The Domestic Dog: Its Evolution, Behavior and Interactions with People*, ed. by James Serpell. Cambridge University Press, 2017. [\[link\]](#)
- *Ice Bear: The Cultural History of an Arctic Icon*, by Michael Engelhard. University of Washington Press, 2017. [\[link\]](#)
- *Displaying Death and Animating Life: Human-Animal Relations in Art, Science, and Everyday Life*, by J. C. Desmond. The University of Chicago Press, 2016. [\[link\]](#)
- *Mourning Animals: Rituals and Practices Surrounding Animal Death*, ed. by M. DeMello. Michigan State University Press, 2017. [\[link\]](#)
- *Producing Predators: Wolves, Work, and Conquest in the Northern Rockies*, by M.D. Wise. University of Nebraska Press, 2016. [\[link\]](#)
- *What Is a Dog?* ed. by R. Coppinger and L. Coppinger. The University of Chicago Press, 2016. [\[link\]](#)
- *The Social Neuroscience of Human-Animal Interaction*, ed. by L.S. Freund, S. McCune, L. Esposito, N.R. Gee, and P. McCardle. American Psychological Association, 2016. [\[link\]](#)
- *Animal Creativity and Innovation*, by A.B. Kaufman and J.C. Kaufman, Academic Press, 2015. [\[link\]](#)
- *The Cultural Lives of Whales and Dolphins*, ed. by H. Whitehead and L. Rendell. The University of Chicago Press, 2015. [\[link\]](#)
- *Animal Social Networks*, by J. Krause, R. James, D. Franks, D.P. Croft, Oxford University Press, 2015. [\[link\]](#)
- *Primates and Cetaceans: Field Research and Conservation of Complex Mammalian Societies*, ed. by J. Yamagiwa and L. Karczmarski. Springer, 2014. [\[link\]](#)
- *The Evolution of Social Communication in Primates: A multidisciplinary approach*, ed. by M. Pina and N. Gontier. Springer, 2014. [\[link\]](#)

Other reviewing activities

- E-database: *Primate Factsheets* (4)
- Research grant proposals (8):
 - *National Science Foundation Graduate Research Fellowship, USA*
 - *The Leakey Foundation, USA*
 - *Leverhulme Trust, UK*
 - *The Netherlands Organisation for Scientific Research*
 - *Grant Agency of the Academy of Science of the Czech Republic*
- Abstracts (16):
 - *Congress of the International Primatological Society, Kyoto, Japan (2010)*
 - *Annual Meeting of the Minds Multidisciplinary Research Conference, University of Lethbridge, Canada (2016, 2017)*

Professional contributions

- **Animal Behavior Society Education Committee** (Outstanding Children's Book Award Subcommittee: 2017)
- **Scientific Committee member:** European Federation for Primatology (2017)
- **Editorial Board:** *Evolutionary Psychological Science, Frontiers in Psychology* (since 2014)
- **Conference co-organizer** (with P.L. Vasey and K. Suschinsky): "Puzzle of Sexual Orientation Meeting", held at the University of Lethbridge, Canada (2015)
- **Chief-editor** (co-editors: M.A. Huffman and P.L. Vasey): Edited volume: "Monkeys of the Stormy Mountain – 60 years of primatological research on the Japanese macaques of Arashiyama", Cambridge University Press (published in 2012)
- **Symposium organizer:** "The Japanese macaques of Arashiyama: Demographic studies, behavioral research and management efforts", held during the *Congress of the International Primatological Society, Kyoto, Japan (2010)*
- **Scientific Committee member:** *Congress of the International Primatological Society, Kyoto, Japan (2010)*

Current membership of academic societies

- *Animal Behavior Society*
- *International Academy of Sex Research*

MEDIA AND OTHER RESEARCH OUTREACH ACTIVITIES

Interviews about my research on "Bartering/Gambling Monkeys" in Bali

- *CBC Radio-One*, Calgary, Canada (Doug Dirks: *The Homestretch* – Apr. 2019)
<https://www.cbc.ca/player/play/1484637763706>
- *University of Lethbridge Research News*, Canada (Trevor Kenney – Apr. 2019)
<http://www.uleth.ca/unews/article/monkeys-can-barter-can-they-gamble-asks-new-study-university-lethbridge-researcher>
- *Ici Radio-Canada, CBC*, Canada (Sandra Gagnon: *La croisée* – Jun. 2017)
<http://ici.radio-canada.ca/premiere/emissions/la-croisee/segments/entrevue/27245/singe-troc-vol-bali>
- *Le Monde*, Paris, France (Pierre Trouvé – Jun. 2017)
http://www.lemonde.fr/sciences/video/2017/06/09/comment-les-macaques-a-bali-ranconnent-les-touristes-pour-obtenir-de-la-nourriture_5141688_1650684.html
- *Global News TV-Lethbridge*, Canada (Allie Miller – Jul. 2016)
<http://globalnews.ca/video/2828182/monkey-business-alberta-researchers-explore-phenomenon-of-tourists-being-ripped-off-by-tourists>
- *CTV-Lethbridge*, Canada (Terry Vogt – Jun. 2016)
bit.ly/29hjt40
- *CBC Radio-One*, Calgary, Canada (Doug Dirks: *The Homestretch* – Jun. 2016)
<http://www.cbc.ca/player/play/2691116967>
- *University of Lethbridge Research News*, Canada (Trevor Kenney – Jun. 2016)
<http://www.uleth.ca/unews/article/leca-research-targets-light-fingered-balinese-macaque-monkeys>
- *BBC-2*, Natural History Unit, UK (Chris Packham: *World's Sneakiest Animals Series* – Jan. 2016)
<https://youtu.be/apkHkF1GY4k>
<http://www.bbc.co.uk/programmes/p03chr5c>
- *PBS-Nature*, USA (Chris Packham: *Natural Born Hustlers Series* – Jan. 2016)
https://youtu.be/Dcu_i27s7LY

Press releases about my research on "Bartering/Gambling Monkeys" in Bali

- *CBC News*, Calgary, Canada (Pamela Fieber – Apr. 2019)
<https://www.cbc.ca/news/canada/calgary/university-of-lethbridge-psychology-professor-bali-study-bartering-macaque-monkeys-gambling-1.5092627>
- *SciShow* (Christie Wilcox – Mar. 2019)
<https://www.youtube.com/watch?v=X7QlhPOFQO4>
- *BBC-Mundo*, Mexico (Jun. 2017)
<http://www.bbc.com/mundo/noticias-40084089>
- *la Repubblica*, Roma, Italy (Giuliano Aluffi – Jun. 2017)
http://www.repubblica.it/scienze/2017/05/29/news/i_macachi_che_ricattano_i_turisti_a_bali-166733188/?ref=fbpr#gallery-slider=166733438
- *Université de Liège*, Belgium (Jun. 2017)
https://www.ulg.ac.be/cms/c_8996652/fr/le-troc-des-macaques-du-temple-d-uluwatu
- *Science Alert* (Signe Dean – May 2017)
<http://www.sciencealert.com/how-wild-monkeys-in-bali-took-to-the-thug-life-to-steal-valuable-and-sell-them-back-for-food>
- *Mother Nature Network* (Russel McLendon – May 2017)
<http://www.mnn.com/green-tech/research-innovations/blogs/monkey-mobsters-rob-tourists-barter-food>
- *The Times*, London, UK (Tom Whipple – May 2017)
<https://www.thetimes.co.uk/article/monkey-gang-holds-valuable-to-ransom-gg8k5glth>
- *New Scientist*, London, UK (Brian Owens – May 2017)
<https://www.newscientist.com/article/2132748-monkey-mafia-steal-your-stuff-then-sell-it-back-for-a-cracker/>
- *Global News*, Canada (Jun. 2016)
<http://globalnews.ca/news/2789790/monkey-business-alberta-researchers-explore-phenomenon-of-tourists-being-ripped-off-by-monkeys/>
- *PBS Learning Media platform*, an education resource for students 5th-12th grades (Jun. 2016)
<http://www.pbslearningmedia.org/resource/nat16.sci.lisci.macaque/learned-behavior-and-culture-in-thieving-macaque-monkeys/>

Interviews about my research on sexual behaviors in Japanese macaques

- *CBC Radio-One*, Canada (Carol Off: *As It Happens* – Dec. 2017)
<http://www.cbc.ca/radio/asithappens/as-it-happens-friday-edition-1.4450532/they-have-a-monkey-on-their-back-and-they-seem-to-like-it-why-are-japanese-macaques-humping-deer-1.4451096>
- *University of Lethbridge Research News*, Canada (Trevor Kenney – Jan. 2015)
<http://www.uleth.ca/unews/article/cultural-influences-may-play-role-maintaining-non-conceptive-sexual-behaviour-japanese#.VMU2EC5e8Zw>
- *University of Lethbridge Research News*, Canada (Trevor Kenney – Apr. 2013)
<http://www.uleth.ca/unews/article/research-ties-established-through-japanese-macaques-0>
- *CBC-Television*, Canada (Bryce Sage: *The Nature of Things*– Mar. 2013)
<http://www.cbc.ca/natureofthings/features/survival-of-the-fabulous-extra-video>

Press releases about my research on sexual behaviors in Japanese macaques

- *The Guardian* (Nicola Davis – Dec. 2017)
<https://www.theguardian.com/science/2017/dec/15/sex-between-snow-monkeys-and-sika-deer-may-be-new-behavioural-tradition>
- *New Scientist* (Sam Wong – Dec. 2017)
<https://www.newscientist.com/article/2156481-young-female-monkeys-use-deer-as-outlet-for-sexual-frustration/>
- *NPR* (Camila Domonoske: *The Two-Way* – Dec. 2017)
<https://www.npr.org/sections/thetwo-way/2017/12/15/571175252/scientists-say-japanese-monkeys-are-having-sexual-interactions-with-deer>
- *Inverse Science* (Peter Hess – Dec. 2017)
<https://www.inverse.com/article/39437-japanese-snow-monkey-macaque-humping-sika-deer-video>
- *National Geographic* (Elaina Zachos – Dec. 2017)
<https://news.nationalgeographic.com/2017/12/japanese-macaques-sika-deer-sexual-interactions-spd/>
- *Daily Mail Online* (Keiran Southern – Dec. 2017)
<http://www.dailymail.co.uk/news/article-5186265/Japanese-snow-monkeys-learning-sex-deer.html>
- *The Washington Post* (Kristine Phillips – Dec. 2017)
https://www.washingtonpost.com/news/animalia/wp/2017/12/16/yes-thats-a-monkey-grinding-on-top-of-a-deer/?utm_term=.43b1b935857f
- *Popular Science* (Rachel Feltman – Dec. 2017)
<https://www.popsci.com/why-monkeys-have-sex-with-deer>
- *Le Monde* (Nathaniel Herzberg – Dec. 2017)
http://www.lemonde.fr/sciences/article/2017/12/18/des-pratiques-sexuelles-regulieres-observees-entre-des-femelles-macaques-et-des-cerfs-males_5231554_1650684.html
- *Le Figaro* (Tristan Vey – Dec. 2017)
<http://www.lefigaro.fr/sciences/2017/12/20/01008-20171220ARTFIG00150-des-macaques-femelles-observees-en-train-de-se-masturber-sur-le-dos-de-cerfs.php>
- *Allo Docteurs?* (Marina Carrere d'Encausse – Dec. 2017)
https://www.allodocteurs.fr/bien-etre-psycho/environnement-et-sante/animaux/orgasme-les-macaques-preferent-les-cerfs_23887.html
- *20 minuten* (Jean-Claude Gerber – Dec. 2017)
<http://www.20min.ch/wissen/news/story/Darum-haben-japanische-Affen-Sex-mit-Hirschen-29097873>
- *Die Welt* (Jean-Claude Gerber, Dec. 2017)
<https://www.welt.de/wissenschaft/article171727201/Partnerwahl-Diese-Affen-haben-Sex-mit-Hirschen.html>

Interviews about my research on mona monkeys in Grenada

- *Grenadian Government Information Services TV channel* (Apr. 2014)
- *Jamaica Observer* (May 2014)
<http://www.jamaicaobserver.com/news/Grenada-s-Mona-Monkey-population-under-threat>

Press releases about my research on material culture in Japanese macaques

- *Frontiers in Ecology and the Environment* (Adrian Burton – Mar. 2019)
<https://esajournals.onlinelibrary.wiley.com/doi/epdf/10.1002/fee.2014>
- *Discovery News* (Feb. 2013)
https://www.youtube.com/watch?v=IHvFFyz2az8&ab_channel=Discovery

- *Science on NBC News* (Jennifer Viegas – Dec. 2009)
http://www.nbcnews.com/id/34621946/ns/technology_and_science-science/#.UYFRTspcbVA
- *The Japan Times* (Rowan Hooper – Aug. 2009)
<http://www.japantimes.co.jp/news/2009/08/09/national/science-health/from-flossing-to-philosophy/>

Participation in research outreach activities with public exhibits:

- *Monkey-Deer Sex*: The Osaka International School of Kwansai Gakuin, Minoh, Japan (Interview Director Bill Kralovec, Biology Teacher Allana Rumble, and selected students – Feb. 2018)
- *Monkeys Do*: Lethbridge Park Meadows School (Introduction to Primatology – May 2016)
- *Monkeys Do*: Lethbridge Montessori School (Introduction to Primatology – June 2016)
- Participant in annual *Open House* and *New Student Orientation Day* events (providing information to prospective students): Department of Psychology, University of Lethbridge (2014-2018)
- Judge at the annual *Lethbridge Regional Science Fair* events, University of Lethbridge (2016-2019)
- *Animal Behavior Society Conference – Outreach Fair*: New Mexico Museum of Natural History and Science, Albuquerque, USA (June 2012)
- Scientific Advisor for the movie *Snow Monkeys*, PBS Nature, Pontecorvo Production (2014)
- Educational website: “Initiation à l’éthologie des primates: [Introductory primate ethology]” (2000).
- Interviewed for the video movie: “Le métier d’éthologiste [Becoming an ethologist]”, ULP Multimédia production, University Louis Pasteur, Strasbourg, France (2000).

GRANTS, FELLOWSHIPS, AND SCHOLARSHIPS

Grants

Social Sciences and Humanities Research Council of Canada – Insight Development Grant (2019-2022)

Awarded to: Noëlle Gunst (Principal applicant), Jean-Baptiste Leca (Co-applicant #1), Paul Vasey (Co-applicant #2)

Project title: *Socioeconomic, cultural, and psychological drivers of wildlife perception and use in Grenada: Towards a sustainable human-nature coexistence*

Amount: \$34,335 (CAD)

L.S.B. Leakey Foundation – General Research Grant (2019-2021)

Awarded to: Arijit Pal (Post-Doctoral Fellow) supervised by Jean-Baptiste Leca (Co-Investigator)

Project title: *Affordance learning: From object play to tool use?*

Amount: \$22,750 (USD)

University of Lethbridge Research Fund (2019-2022)

Awarded to: Jean-Baptiste Leca, Paul Vasey, and Noëlle Gunst

Project title: *Comparative evolution of socio-sexuality and non-conceptive sex in male primates – Some answers from Mona monkeys in Grenada*

Amount: \$11,998 (CAD)

Alberta Gambling Research Institute – Major Grant (2018-2022)

Awarded to: Jean-Baptiste Leca (Principal applicant), Robert Williams (Co-applicant #1), and Elsa Addressi (Co-applicant #2)

Project title: *Development of an ecologically valid non-human primate model of gambling*

Amount: \$54,650 (CAD)

Board of Governors Research Chair – Tier II: Origins & Explorations, Office of the Vice-President (Research), University of Lethbridge (2017-2021)

Awarded to: Jean-Baptiste Leca

Project title: *The hows and whys of questionably adaptive cultural behaviours in macaques*

Amount: \$6,500 (CAD)

University of Lethbridge Research Fund (2016-2017)

Awarded to: Jean-Baptiste Leca

Project title: *The hows and whys of non-adaptive cultural behaviours in macaques*

Amount: \$6,000 (CAD)

University of Lethbridge Travel Fund (2016)

Awarded to: Jean-Baptiste Leca

Project title – Talk entitled: *Two forms of material culture in Balinese long-tailed macaques: the stone handling and token exchange traditions*. Joint meeting of the International Primatological Society and the American Society of Primatologists, Chicago, USA

Amount: \$1,200 (CAD)

Fédération Belge des Femmes Diplômées des Académies (Belgium) – Marie Derscheid-Delcourt Research Grant (2016)

Awarded to: Fany Brotcorne (supervised by Jean-Baptiste Leca)

Project title: *Object/food cultural token economy in a population of Balinese long-tailed macaques*

Amount: \$3,700 (CAD)

Natural Sciences and Engineering Research Council of Canada – Discovery Grant (2015-2022, including a one-year Early Career Researcher extension with funds and a one-year COVID-19 extension with funds)

Awarded to: Jean-Baptiste Leca

Project title: *The hows and whys of non-adaptive cultural behaviours in macaques*

Amount: \$168,000 (CAD)

Natural Sciences and Engineering Research Council of Canada – Early Career Researcher Award (2015-2022, including a one-year Early Career Researcher extension with funds and a one-year COVID-19 extension with funds)

Awarded to: Jean-Baptiste Leca

Project title: *The hows and whys of non-adaptive cultural behaviours in macaques*

Amount: \$35,000 (CAD)

Social Sciences and Humanities Research Council of Canada – Individual Connection Grant (2015)

Awarded to: Paul Vasey, Jean-Baptiste Leca, and Kelly Suschinsky

Project title: *The puzzle of sexual orientation: What is it and how does it work?*

Amount: \$25,000 (CAD)

Fonds Léopold III pour l'Exploration et la Conservation de la Nature (Belgium) – Research Grant (2015)

Awarded to: Fany Brotcorne (under the supervision of Jean-Baptiste Leca)

Project title: *Object/food cultural token economy in a population of Balinese long-tailed macaques*

Amount: \$3,700 (CAD)

Dean's Office of the Faculty of Arts and Science, University of Lethbridge – Research Start-Up Allowance (2014-2016)

Awarded to: Jean-Baptiste Leca

Project title: *Object/food bartering as a traditional token economy in Balinese long-tailed macaques*

Amount: \$40,000 (CAD)

University of Lethbridge Travel Fund (2014)

Awarded to: Jean-Baptiste Leca

Project title – Talk entitled: *Inter-group variation in non-conceptive sexual activity in female Japanese macaques: Could it be cultural?* Biennial Meeting of the International Society for Comparative Psychology, Bogotá, Colombia

Amount: \$900 (CAD)

American Institute of Bisexuality, Inc. – Research Grant (2014)

Awarded to: Jean-Baptiste Leca

Project title: *Male bisexual behavior in all-male and mixed-sex groups of mona monkeys in Grenada,*

West Indies

Amount: \$8,890 (USD)

L.S.B. Leakey Foundation – General Research Grant (2013-2014)

Awarded to: Jean-Baptiste Leca

Project title: *Non-conceptive sexuality in Japanese macaques: Developmental, physiological, and cultural/genetic approaches*

Amount: \$13,140 (USD)

American Institute of Bisexuality, Inc. – Research Grant (2012)

Awarded to: Jean-Baptiste Leca

Project title: *Bisexual behavior in female Japanese monkeys: Developmental, physiological, and cultural approaches, and implications for the evolution of human bisexuality*

Amount: \$15,540 (USD)

International Primatological Society – Conservation Grant (2010)

Awarded to: Jean-Baptiste Leca and Noëlle Gunst (joint project)

Project title: *Census, socio-ecology, and population genetics of ebony leaf monkeys in Bali: Implications for the species' conservation status in Indonesia*

Amount: \$1,500 (USD)

American Society of Primatologists – Small Conservation Grant (2010)

Awarded to: Jean-Baptiste Leca and Noëlle Gunst (joint project)

Project title: *Census, socio-ecology, and population genetics of ebony leaf monkeys in Bali: Implications for the species' conservation status in Indonesia*

Amount: \$750 (USD)

Rufford Small Grant for Nature Conservation (2010)

Awarded to: Dr. Noëlle Gunst and Jean-Baptiste Leca (joint project)

Project title: *Census, socio-ecology, and population genetics of ebony leaf monkeys in Bali: Implications for the species' conservation status in Indonesia*

Amount: \$9,400 (USD)

Japan Society for the Promotion of Science – Grant-in-Aid for Scientific Research (2007-2009)

Awarded to: Jean-Baptiste Leca and Dr. Michael A. Huffman (joint project)

Project title: *Behavioral innovation and traditions in Japanese macaques: Social learning and socio-ecological factors*

Amount: \$18,290 (USD)

Primate Origins of Human Evolution (HOPE), Kyoto University, Japan – Research Grant (2008)

Awarded to: Jean-Baptiste Leca

Project title: *Stone handling behavior in Balinese long-tailed macaques: Towards a cross-species comparison of a macaque tradition*

Amount: \$2,730 (USD)

European Doctoral College, University Louis Pasteur, Strasbourg, France – Research Grant (2002)

Awarded to: Jean-Baptiste Leca

Project title: *Dominance, social negotiation and decision making process in white-faced capuchins*

Amount: \$7,470 (USD)

Centre National de la Recherche Scientifique, France-Belgium agreement – Research/Travel Grant (2002)

Awarded to: Jean-Baptiste Leca, Dr. Odile Petit, and Dr. Jean-Louis Deneubourg (joint project)

Project title: *Group decision in white-faced capuchin monkeys: Implications for complex systems and non-linear phenomena*

Amount: \$5,160 (USD)

Fellowships

Japan Society for the Promotion of Science – Post-doctoral Fellowship for Foreign Researchers (2012)

Awarded to: Dr. Noëlle Gunst and Jean-Baptiste Leca (joint project)

Project title: *Non-conceptive sexuality in Japanese macaques: Developmental, physiological and functional approaches*

Amount: \$30,200 (USD)

Post-doctoral fellowship (2011-2014)

Funds from: Dr. Paul L. Vasey's Natural Sciences and Engineering Research Council of Canada (NSERC) grant, and Alberta Innovates Health Solutions (AIHS) grant

Project title: *Non-conceptive sexuality in Japanese macaques: Developmental, physiological, functional, and cultural approaches*

Amount: \$43,000 (CAD)

Dean's Office of the Faculty of Arts and Science, University of Lethbridge – Post-doctoral Fellowship (2011-2012)

Awarded to: Jean-Baptiste Leca

Project title: *Non-conceptive sexuality in Japanese macaques: Developmental, physiological and functional approaches*

Amount: \$20,000 (CAD)

Japan Society for the Promotion of Science – Post-doctoral Fellowship for Foreign Researchers (2007-2009)

Awarded to: Jean-Baptiste Leca

Project title: *Behavioral innovation and traditions in Japanese macaques: Social learning and socio-ecological factors*

Amount: \$85,720 (USD)

French Ministry of Foreign Affairs – Egide/Lavoisier Post-doctoral Fellowship (2003-2005)

Awarded to: Jean-Baptiste Leca

Project title: *Behavioral innovation and traditions in Japanese macaques: Ethnographic approach and demographic factors*

Amount: \$63,900 (USD)

French Ministry of Scientific Research – Ph.D. Fellowship for Academic Merit (1998-2001)

Awarded to: Jean-Baptiste Leca

Project title: *Dominance, social negotiation and decision making process in white-faced capuchins*

Amount: \$36,100 (USD)

Scholarships

Regional Center of University Services, University Louis Pasteur, Strasbourg, France

M.Sc. Scholarship for Academic Merit (1997-1998)

Amount: \$10,550 (USD)

Regional Center of University Services, University of Bordeaux, France

B.Sc. Scholarship for Academic Merit (1994-1996)

Amount: \$4,670 (USD)

CITIZENSHIP AND LANGUAGES

Dual citizenship: French and Canadian

Languages:

- French: native language
- English: excellent working knowledge
- Japanese: basic knowledge (Japanese Language Proficiency Test, level 4)
- Spanish: basic knowledge