

## CURRICULUM VITAE

### Jean-Baptiste LECA

*Assistant Professor*

*Board of Governors Research Chair (Tier II)*

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#### RESEARCH FIELDS AND INTERESTS

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**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

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##### Initial education

2002 **Ph.D. in Ethology**, University Louis Pasteur, Strasbourg, France  
1998 **M.S. 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.S. 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

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2017-present Post: **Board of Governors Research Chair** (Tier II: Origins & Explorations)  
Employer/Institution: Office of the Vice-President (Research), University of Lethbridge, Canada  
Duties: Research (primate behaviour)

2014-present Post: **Assistant Professor**  
Employer/Institution: Department of Psychology, University of Lethbridge, Canada  
Duties: Research (primate behaviour); Teaching (animal culture/cognition/personality)

2010-2014 Post: **Post-doctoral Fellow & Lecturer**  
Employer/Institution: Department of Psychology, University of Lethbridge, Canada  
Duties: Research (primate behaviour); Teaching (animal culture/cognition/personality)

2010 Post: **Visiting Researcher**  
Employer/Institution: Primate Research Center, Udayana University, Bali, Indonesia  
Duties: Research/conservation (primate behaviour and population census)

- 2007-2009      Post: **Post-doctoral Fellow**  
Employer/Institution: Primate Research Institute, Kyoto University, Japan  
Duties: Research (primate behaviour)
- 2006            Post: **Research Associate**  
Employer/Institution: Institut Pluridisciplinaire Hubert Curien, Strasbourg, France  
Duties: Research (primate behaviour)
- 2003-2005      Post: **Post-doctoral Fellow**  
Employer/Institution: Primate Research Institute, Kyoto University, Japan  
Duties: Research (primate behaviour)
- 1998-2002      Post: **Instructor**  
Employer/Institution: University Louis Pasteur, Strasbourg, France  
Duties: Teaching (animal behaviour, ethology, behavioural ecology, evolutionary biology, developmental biology, neurophysiology, primatology)

## **PUBLICATIONS**

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### Articles published in peer-reviewed journals (\*: Leca lab's members)

37. 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**. In press. 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.
36. Gunst N\*, Vasey PL, **Leca JB**. In press. Deer mates – Heterospecific sexual behaviors performed by Japanese macaques toward sika deer: A quantitative study. Archives of Sexual Behavior.
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 (*Trachypitecus 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 submitted for publication (\*: Leca lab's members)

Pelletier AN\*, Sita S\*, Neugebauer E\*, Gunst N\*, Wandia IN, Pellis SM, **Leca JB**. (Submitted). Is object play motivationally linked to extractive foraging? Structural analysis of two percussive actions in macaques. Animal Behaviour.

Book chapters and non-refereed reports (\*: Leca lab's members)

11. **Leca JB**, Vasey PL. (2016). The homosexuality paradox: Cross-species comparative evidence. In: T.K. Shakelford & V.A. Weekes-Shakelford (eds). *Encyclopedia of Evolutionary Psychological Science*. Springer

International Publishing Switzerland. DOI 10.1007/978-3-319-16999-6\_47-1.

10. **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.
9. **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.
8. **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.
7. **Leca JB**, Gunst N\*, Vasey PL. 2015. 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.
6. **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.
5. **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.
4. 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.
3. Gunst N, **Leca JB**. 2011. Census, socio-ecology, and population genetics of ebony leaf-eating monkeys (*Trachypithecus 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](http://www.rufford.org/rsg/projects/noelle_gunst)
2. 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.
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**

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### Oral presentations as invited speaker

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 oral presentations (\*: Leca lab's members)

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.
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, and 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* (August 21-27, 2016).
  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* (August 21-27, 2016).
  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 (June 27-28, 2016).
  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)

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

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- |              |   |
|--------------|---|
| 2015-present | Principal Investigator: <b>The hows and whys of non-adaptive cultural behaviors in macaques</b> . Department of Psychology, University of Lethbridge, Canada. |
| 2014-present | Co-investigator: <b>Male bisexual behaviour in all-male and mixed-sex groups of mona</b>  |

- monkeys (*Cercopithecus mona*) 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 (*Macaca fuscata*).** 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 (*Macaca fascicularis*); Census and geographic distribution of ebony leaf monkeys (*Trachypithecus auratus*) 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

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### Posts/Courses

- 2014-present     **Assistant 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)
  - *Social learning and cultural behaviors in humans, other primates and other animals* (guest lecture in *Primates in Perspective*, PSYC 3000-level Lecture course)
  - *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**, 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.isps.go.jp/english/e-plaza/e-sdialogue/2008d/1206\\_yoshida.html](http://www.isps.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**

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### High Quality Personnel (HQP) and student 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** (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”, supported by my Start-Up Allowance from the Dean’s Office of the Faculty of Arts and Science.
- **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).
- **M.Sc. candidate** (2016-present), Department of Psychology, University of Lethbridge: Amanda Pelletier, “Structure of the stone handling behaviour in Japanese macaques and Balinese long-tailed macaques”, supported by my NSERC – Discovery Grant.
- **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:
  - Jamie Schnell, B.Sc., “Tap on groin behavior as a form tool-assisted genital stimulation in Balinese long-tailed macaques”.
  - Tatjana Kaufmann, M.Sc., “Object play, complex foraging and tool use in Balinese macaques: a developmental and structural approach”.
  - Daniela Rodrigues, M.Sc., “Comparative structural analysis of stone handling and nut handling behaviors in Balinese long-tailed macaques”.
  - Molly Gilmour, M.Sc. candidate, “Comparative structural analysis of stone handling and nut handling behaviors in Balinese long-tailed macaques”.
  - Montana Hull, M.Sc., “Social and personality correlates of object manipulation in Balinese long-tailed macaques”.
  - Silvana Sita, M.Sc., “Proximate and ultimate causes of material culture in Balinese long-tailed macaques (stone handling, extractive foraging, tool use)”.
  - Elenora Neugebauer, M.Sc. candidate, “From stone handling to stone tool use cultures in Balinese long-tailed macaques”.
  - Lucía Jorge Sales, M.Sc., “Social and personality correlates of the object/food bartering practice in Balinese long-tailed macaques”.
  - Anna Holzner, M.Sc., “Object/food bartering as a traditional token economy in Balinese long-tailed macaques”.
- **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, Hélène Meunier).
  - Department of Psychology, University of Lethbridge, Canada (Lydia Ottenheimer Carrier, Lilah Sciaky).

- **Honours thesis**, Department of Psychology, University of Lethbridge:
  - Erin Davis, “A quantitative study of wellness within the Bhutanese community of Lethbridge” (co-supervisor: Dr. Jennifer Mather, 2016).
  - 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:
  - Caitlin Furby: “Tap on groin behavior as a form tool-assisted genital stimulation in Balinese long-tailed macaques” (Fall 2017).
  - Ryan Fukuda: The evolution of religious beliefs (Fall 2017).
  - Caleb Fernell: Evidence-based assessment of religious coping strategies (Fall 2017).
  - Emmanuel Ipa: “Video analysis of monkey behaviour” (Spring 2017).
  - Sidhesh Mohak: “Kinematic analysis of goal-directed behavior in primates” (Spring 2017).
  - Jessica Sonmor: “Video analysis of stone play behaviour in monkeys” (Spring 2017).
  - Sidhesh Mohak: “Manual coordination in object play by non-human primates” (Fall 2016).
  - Ashna Prakash: “Many Gods’ many voices: Psychosis in the Hindu religion” (Summer 2016).
  - Lyndsay Tomm: “HEXACO personality traits and religiosity in a sample of undergraduate students” (Summer 2016).
  - Lauren Vomberg: “Statistical analysis of personality and degree of religiosity in Judaism” (Summer 2016).
  - Lyndsay Tomm: “Personality and religious orientation” (Spring 2016).
  - Samantha Lasante: “Personality and prejudice towards homosexuals” (Spring 2016).
  - Jessica Vos: “Religiosity and prejudice towards homosexuals” (Spring 2016).
  - Lauren Vomberg: “Personality and religious fundamentalism” (Spring 2016).
  - Lindsay Tymchyna: “Personality in backpackers versus non-backpackers” (Spring 2016).
  - Amanda Pelletier: “Structure of the stone handling behaviour in Balinese long-tailed macaques” (Summer and Fall 2015).
  - Tracy Fillion: “A proximate perspective on religious behavior and belief: ontogenetic processes and causal mechanisms” (Summer 2015).
  - Melissa McKinnon: “An ultimate perspective on religious behavior and belief: functional components and evolutionary history” (Summer 2015).
  - Riane McCallum: “Stone handling repertoire in long-tailed macaques” (Spring 2015).
  - David Baran: “Homosociality in humans: a literature review” (Spring 2012).
  
- **Applied Study students**, Department of Psychology, University of Lethbridge:
  - 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

2017-present	<b>Ph.D. candidate</b> , 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).
2016-present	<b>Ph.D. candidate</b> , Department of Psychology, University of Lethbridge: “Inter-sexual mate competition: A previously unrecognized factor in the evolution of human mating” (Scott Semenyna, under the supervision of Dr. Paul Vasey).
2016-present	<b>Ph.D. candidate</b> , Department of Psychology, University of Lethbridge: “Male sexual orientation: a cross-cultural perspective” (Lanna Petterson, under the supervision of Dr. Paul Vasey).
2015-2017	<b>M.Sc. candidate</b> , 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, 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**

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### Committee services, University of Lethbridge

- Departmental Library Representative (July 2017 – June 2018)
- General Faculties Council – Research Committee (July 2016 – June 2018)
- Departmental Self-Study Report Committee: preparing a departmental review (since Sept. 2016)
- Departmental Chair Selection Committee: 2 position applications reviewed (since Oct. 2015)
- Departmental Search Committee: 3 adjunct faculty position applications reviewed (Nov. 2014, May 2015), 12 instructor position applications reviewed (April 2017)
- Departmental Graduate Education Committee: 6 MSc and 4 PhD applications reviewed (Feb. 2015)
- Departmental Graduate Education Committee (Grant evaluation): 2 SSHERC Fellowships for PhD applications reviewed (Dec. 2014)
- NSERC Undergraduate Student Research Award (USRA) selection committee: 51 applications reviewed (Mar. 2015), 3 applications reviewed (Dec. 2015), 53 applications reviewed (Feb. 2016)

### Peer reviewer for scientific journals (total number of reviews: 66)

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

### Book reviewer for Choice: Current Reviews for Academic Libraries

- *The Domestic Dog: Its Evolution, Behavior and Interactions with People*, ed. by J. Serpell. Cambridge University Press, 2017.  
[http://jbleca.webs.com/Leca%202017%20\(Choice%20Review%20-%20Domestic%20Dog\).jpg](http://jbleca.webs.com/Leca%202017%20(Choice%20Review%20-%20Domestic%20Dog).jpg)
- *Ice Bear: The Cultural History of an Arctic Icon*, by Michael Engelhard. University of Washington Press, 2017.

[http://jbleca.webs.com/Leca%202017%20\(Choice%20Review%20-%20Ice%20Bear\)%201.jpg](http://jbleca.webs.com/Leca%202017%20(Choice%20Review%20-%20Ice%20Bear)%201.jpg)

- *Displaying Death and Animating Life: Human-Animal Relations in Art, Science, and Everyday Life*, by J. C. Desmond. The University of Chicago Press, 2016.

[http://jbleca.webs.com/Leca%202017%20\(Choice%20Review%20-%20Displaying%20Death\)%202.jpg](http://jbleca.webs.com/Leca%202017%20(Choice%20Review%20-%20Displaying%20Death)%202.jpg)

- *Mourning Animals: Rituals and Practices Surrounding Animal Death*, ed. by M. DeMello. Michigan State University Press, 2017:

[http://jbleca.webs.com/Leca%202017%20\(Choice%20Review%20-%20Mourning%20Animals\).jpg](http://jbleca.webs.com/Leca%202017%20(Choice%20Review%20-%20Mourning%20Animals).jpg)

- *Producing Predators: Wolves, Work, and Conquest in the Northern Rockies*, by M.D. Wise. University of Nebraska Press, 2016:

[http://jbleca.webs.com/Leca%202017%20\(Choice%20Review%20-%20Producing%20Predators\).jpg](http://jbleca.webs.com/Leca%202017%20(Choice%20Review%20-%20Producing%20Predators).jpg)

- *What Is a Dog?* ed. by R. Coppinger and L. Coppinger. The University of Chicago Press, 2016:

[http://jbleca.webs.com/Leca%202016%20\(What%20is%20a%20dog\).jpg](http://jbleca.webs.com/Leca%202016%20(What%20is%20a%20dog).jpg)

- *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:

[http://jbleca.webs.com/Leca%202016%20\(Social%20Neuroscience%20of%20Animal-Human%20Interaction\).jpg](http://jbleca.webs.com/Leca%202016%20(Social%20Neuroscience%20of%20Animal-Human%20Interaction).jpg)

- *Primates and Cetaceans: Field Research and Conservation of Complex Mammalian Societies*, ed. by J. Yamagiwa and L. Karczmarski. Springer, 2014:

<http://www.choiceconnect.org/webclipping/169398/z3n7-j2mjqt3ndkj843cdsl7wgh47-f10opj74-xec9off>

- *The Cultural Lives of Whales and Dolphins*, ed. by H. Whitehead and L. Rendell. The University of Chicago Press, 2015:

[http://choiceconnect.org/webclipping/190910/77v07dzc5f-eehg4\\_gnikkbfp7edxpaskvqezegsjewnl4fk-s](http://choiceconnect.org/webclipping/190910/77v07dzc5f-eehg4_gnikkbfp7edxpaskvqezegsjewnl4fk-s)

- *The Evolution of Social Communication in Primates: A multidisciplinary approach*, ed. by M. Pina and N. Gontier. Springer, 2014:

<http://choiceconnect.org/webclipping/186381/6own9a6yx2q0y1spjz0cqy-u9jqdmlxgzitvynijcyh2n1fwoc>

- *Animal Social Networks*, by J. Krause, R. James, D. Franks, D.P. Croft, Oxford University Press, 2015:

[http://choiceconnect.org/webclipping/191764/1xr\\_5m3x56n2i1u809fjwfnhji8l-vvzgbz\\_nqwgj-8sygovmt](http://choiceconnect.org/webclipping/191764/1xr_5m3x56n2i1u809fjwfnhji8l-vvzgbz_nqwgj-8sygovmt)

- *Animal Creativity and Innovation*, by A.B. Kaufman and J.C. Kaufman, Academic Press, 2015 :

[http://choiceconnect.org/webclipping/194054/cmv3vl13e9-p1vmzcdf3bplr0wtpyek2r7rafg4kc3z3m\\_qpdv](http://choiceconnect.org/webclipping/194054/cmv3vl13e9-p1vmzcdf3bplr0wtpyek2r7rafg4kc3z3m_qpdv)

#### Other reviewing activities

- E-database: *Primate Factsheets* (4)
- Research grant proposals (7):
  - *National Science Foundation Graduate Research Fellowship*
  - *The Leakey Foundation*
  - *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 Psychology 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

- International Primatological Society
- International Academy of Sex Research

**MEDIA AND OTHER RESEARCH OUTREACH ACTIVITIES**

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- Interviewed about my research on "Bartering Monkeys" in Bali by:
  - Sandra Gagnon, *La croisée*, *Ici Radio-Canada*, CBC, Canada (June 2017):  
<http://ici.radio-canada.ca/premiere/emissions/la-croisee/segments/entrevue/27245/singe-troc-vol-bali>
  - Pierre Trouvé, *Le Monde*, Paris, France (June 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](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)
  - Allie Miller, Global News TV-Lethbridge, Canada (July 2016):  
<http://globalnews.ca/video/2828182/monkey-business-alberta-researchers-explore-phenomenon-of-tourists-being-ripped-off-by-tourists>
  - Terry Vogt, CTV-Lethbridge, Canada (June 2016):  
[bit.ly/29hJT40](http://bit.ly/29hJT40)
  - Doug Dirks, *The Homestretch*, CBC Radio-One, Calgary, Canada (June 2016):  
<http://www.cbc.ca/player/play/2691116967>
  - Trevor Kenney, *University of Lethbridge Research News*, Canada (June 2016):  
<http://www.uleth.ca/unews/article/leca-research-targets-light-fingered-balinese-macaque-monkeys>
  - Chris Packham, *World's Sneakiest Animals Series*, BBC-2, Natural History Unit, UK (Jan. 2016):  
<https://youtu.be/apkHkF1GY4k>  
<http://www.bbc.co.uk/programmes/p03chr5c>
  - Chris Packham, *Natural Born Hustlers Series*, PBS-Nature, USA (Jan. 2016):  
[https://youtu.be/Dcu\\_i27s7LY](https://youtu.be/Dcu_i27s7LY)
- My research on "Bartering Monkeys" in Bali was featured in:
  - *BBC-Mundo*, Mexico (June 2017):  
<http://www.bbc.com/mundo/noticias-40084089>
  - Giuliano Aluffi, *la Repubblica*, Roma, Italy (June 2017):  
[http://www.repubblica.it/scienze/2017/05/29/news/i\\_macachi\\_che\\_ricattano\\_i\\_turisti\\_a\\_bali-166733188/?ref=fbpr#gallery-slider=166733438](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 (June 2017):  
[https://www.ulg.ac.be/cms/c\\_8996652/fr/le-troc-des-macaques-du-temple-d-uluwatu](https://www.ulg.ac.be/cms/c_8996652/fr/le-troc-des-macaques-du-temple-d-uluwatu)
  - Signe Dean, *Science Alert* (May 2017):  
<http://www.sciencealert.com/how-wild-monkeys-in-bali-took-to-the-thug-life-to-steal-valuables-and-sell-them-back-for-food>
  - Russel McLendon, *Mother Nature Network* (May 2017):  
<http://www.mnn.com/green-tech/research-innovations/blogs/monkey-mobsters-rob-tourists-barter-food>
  - Tom Whipple, *The Times*, London, UK (May 2017):  
<https://www.thetimes.co.uk/article/monkey-gang-holds-valuables-to-ransom-qg8k5glth>
  - Brian Owens, *New Scientist*, London, UK (May 2017):  
<https://www.newscientist.com/article/2132748-monkey-mafia-steal-your-stuff-then-sell-it-back-for-a-cracker/>
  - Global News, Canada (June 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 5<sup>th</sup>-12<sup>th</sup> grades (June 2016):  
<http://www.pbslearningmedia.org/resource/nat16.sci.lisci.macaque/learned-behavior-and-culture-in-thieving-macaque-monkeys/>
- Interviewed about my research on sexual behaviors in Japanese macaques by:
  - Trevor Kenney, *University of Lethbridge Research News*, Canada (Jan. 2015):



<http://www.uleth.ca/unews/article/cultural-influences-may-play-role-maintaining-non-conceptive-sexual-behaviour-japanese#.VMU2EC5e8Zw>

- Trevor Kenney, *University of Lethbridge Research News*, Canada (Apr. 2013):  
<http://www.uleth.ca/unews/article/research-ties-established-through-japanese-macaques-0>
- Bryce Sage, *The Nature of Things*, CBC Television, Canada (Mar. 2013):  
<http://www.cbc.ca/natureofthings/features/survival-of-the-fabulous-extra-video>
- Interviewed about my research on mona monkeys in Grenada for the Grenadian Government Information Services TV channel (Apr. 2014).
- My research on mona monkeys in Grenada was featured in the journal *Jamaica Observer* (May 2014):  
<http://www.jamaicaobserver.com/latestnews/Grenada-s-Mona-Monkey-population-under-threat>
- Participant in research outreach activities with public exhibits:
  - *Monkeys Do* (Introduction to Primatology): Lethbridge Park Meadows School (May 2016).
  - *Monkeys Do* (Introduction to Primatology): Lethbridge Montessori School (June 2016).
  - *Open House* event (for prospective students): Department of Psychology, University of Lethbridge (Oct. 2014-2015).
  - *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).
- Interviewed about my research on dental flossing behavior in Japanese macaques by:
  - Rowan Hooper, *The Japan Times* (Aug. 2009):  
<http://www.japantimes.co.jp/news/2009/08/09/national/science-health/from-flossing-to-philosophy/>
  - Jennifer Viegas, *Science on NBC News* (Dec. 2009):  
[http://www.nbcnews.com/id/34621946/ns/technology\\_and\\_science-science/#.UYFRTspcbVA](http://www.nbcnews.com/id/34621946/ns/technology_and_science-science/#.UYFRTspcbVA)
- My research on dental flossing behavior in Japanese macaques was featured in:
  - *Discovery News* (Feb. 2013):  
<http://news.discovery.com/animals/monkeys-flossing-teeth.htm>
- 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

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### Grants

Board of Governors Research Chair – Tier II: Origins & Explorations, Office of the Vice-President (Research), University of Lethbridge (2017-2020)

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 (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)

Natural Sciences and Engineering Research Council of Canada – Discovery Grant (2015-2020)

Awarded to: Jean-Baptiste Leca  
Project title: *The hows and whys of non-adaptive cultural behaviours in macaques*  
Amount: \$120,000 (CAD)

Natural Sciences and Engineering Research Council of Canada – Early Career Researcher Award (2015-2020)

Awarded to: Jean-Baptiste Leca  
Project title: *The hows and whys of non-adaptive cultural behaviours in macaques*  
Amount: \$25,000 (CAD)

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

Awarded to: Paul L. Vasey, Jean-Baptiste Leca, and Kelly D. 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 Dr. 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 Dr. 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, WORK STATUS IN CANADA, AND LANGUAGES**

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Citizenship: French

Work status in Canada: Permanent Resident

Languages:

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