

CURRICULUM VITAE

Jean-Baptiste LECA

Associate Professor

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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

- 2021-present **Special Member of the Graduate Faculty**
Central Washington University, USA
- 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
- 2017-2020 **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)

47. Hirsche LA, Cenni C*, **Leca JB**, Whishaw IQ. (In press). Two types of withdraw-to-eat movement related to food size in long-tailed macaques (*Macaca fascicularis*): Insights into the evolution of the visual control of hand shaping in anthropoid primates. *Animal Behavior and Cognition*.
46. Cenni C*, Pellis SM, Wandia IN, **Leca JB**. (2021). Stone affordances as potential for action expression in object play in long-tailed macaques (*Macaca fascicularis*). *Journal of Comparative Psychology*, 135(3), 430-438. [\[DOI\]](#)
45. **Leca JB**, Gunst N*, Gardiner M*, Wandia IN. (2021). 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: Biological Sciences*, 376(1819), 20190677 (Special Issue: "Existence and Prevalence of Economic Behaviours among Non-Human Primates"). [\[DOI\]](#)
44. Logue D, **Leca JB**. (2020). Animal culture: How a new birdsong went viral. *Current Biology*, 30(16), R957-R959. [\[DOI\]](#)
43. Gunst N*, Casarrubea M, Vasey PL, **Leca JB**. (2020). Is female-male mounting functional? An analysis of the temporal patterns of sexual behaviors in Japanese macaques. *Physiology & Behavior* (Special Issue: "T-Pattern Analysis"), 223, 112983. [\[DOI\]](#)
42. Cenni C*, Casarrubea M, Gunst N*, Vasey PL, Pellis SM, Wandia IN, **Leca JB**. (2020). 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"), 222, 112938. [\[DOI\]](#)
41. Addessi 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. [\[DOI\]](#)
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(2), 311-326. [\[DOI\]](#)
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"). [\[DOI\]](#)

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. [\[DOI\]](#)
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. [\[DOI\]](#)
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. [\[DOI\]](#)
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. [\[DOI\]](#)
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. [\[DOI\]](#)
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. [\[DOI\]](#)
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. [\[DOI\]](#)
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. [\[DOI\]](#)
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. [\[DOI\]](#)
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. [\[DOI\]](#)
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. [\[DOI\]](#)
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. [\[DOI\]](#)
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. [\[DOI\]](#)
25. **Leca JB**, Gunst N*, Vasey PL. (2014). Development of sexual behavior in free-ranging female Japanese macaques. *Developmental Psychobiology*, 56(6), 1199-1213. [\[DOI\]](#)
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. [\[DOI\]](#)

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. [\[DOI\]](#)
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. [\[DOI\]](#)
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(1), 133-144. [\[DOI\]](#)
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. [\[DOI\]](#)
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]. [\[DOI\]](#)
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. [\[DOI\]](#)
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. [\[DOI\]](#)
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. [\[DOI\]](#)
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. [\[DOI\]](#)
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. [\[DOI\]](#)
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. [\[DOI\]](#)
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. [\[DOI\]](#)
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. [\[DOI\]](#)
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. [\[DOI\]](#)
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. [\[DOI\]](#)
8. Huffman MA, Nahallage C, **Leca JB**. (2008). Cultured monkeys, social learning cast in stones. *Current*

Directions in Psychological Science, 17(6), 410-414. [\[DOI\]](#)

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. [\[DOI\]](#)
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. [\[DOI\]](#)
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. [\[DOI\]](#)
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. [\[DOI\]](#)
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. [\[DOI\]](#)
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. [\[DOI\]](#)
1. **Leca JB**, Fornasieri I, Petit O. (2002). Aggression and reconciliation in *Cebus capucinus*. *International Journal of Primatology*, 23(5), 979-998. [\[DOI\]](#)

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

6. Gunst N*, **Leca JB**, Vasey PL. (In review). When males have females on their backs: Male's perspective on female-male mounting in Japanese macaques. *American Journal of Primatology*.
5. **Leca JB**, Gunst N*. (In review). The exaptive potential of (object) play behavior. *International Journal of Play* (Special Issue: "The Evolution and Ontogeny of Play: Comparative Perspectives").
4. Ham JR, Lilley MK, Miller MR, **Leca JB**, Pellis SM, Manitzas Hill HM. (In review). Self-handicapping in object play: How belugas (*Delphinapterus leucas*) make play difficult. *International Journal of Play* (Special Issue: "The Evolution and Ontogeny of Play: Comparative Perspectives").
3. Gunst N*, **Leca JB**, Vasey PL. (In review). Sexual adaptation: Is female-male mounting a supernormal courtship display in Japanese macaques? *Behaviour*.
2. Cenni C*, Christie JBA*, Van der Pant Y*, Gunst N*, Vasey PL, Wandia IN, **Leca JB**. (In review). Do monkeys use sex toys? Evidence of stone tool-assisted masturbation in free-ranging long-tailed macaques. *Ethology*.
1. Cenni C*, Christie JBA*, Van der Pant DHL*, Wright CI*, Gunst N*, Pellis SM, Wandia IN, **Leca JB**. (In review). Does object play have an individual signature in long-tailed macaques (*Macaca fascicularis*)? Inter-individual variation in stone handling behavior. *Animal Cognition*.

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

9. **Leca JB**. (2020). Evolutionary by-products. In: T.K. Shackelford & V.A. Weekes-Shackelford (eds). *Encyclopedia of Evolutionary Psychological Science*. Springer International Publishing, Switzerland. [\[DOI\]](#)
8. **Leca JB**. (2020). By-products of adaptations. In: T.K. Shackelford & V. A. Weekes-Shackelford (eds). *Encyclopedia of Evolutionary Psychological Science*. Springer International Publishing, Switzerland. [\[DOI\]](#)

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. [\[DOI\]](#)
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. [\[DOI\]](#)
5. **Leca JB**, Vasey PL. (2016). Comparative evidence – The homosexuality paradox. In: T.K. Shackelford & V.A. Weekes-Shackelford (eds). *Encyclopedia of Evolutionary Psychological Science*. Springer International Publishing, Switzerland. [\[DOI\]](#)
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, scientific reports, and methods collections (*: Leca lab's members)

7. **Leca JB**, Weil R*. (2021). Studying cognition in the wild: Towards an ecologically valid experimental approach to animal minds. In: **J.-B. Leca** & R. Weil (Guest Editors). *Journal of Visualized Experiments (JoVE): Methods Collection*. [\[Link\]](#)
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 (*Trachypithecus auratus*) in Bali: implications for the species' conservation status in Indonesia. Online Scientific Report to the Rufford Small Grants Foundation for Nature Conservation. [\[Link\]](#)

1. **Leca JB**, Gunst N. (2000). Quand les capucins s’amusent: comportements stéréotypiques 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)

18. Gumert MD, Luncz LV, **Leca JB**. (2021). Exploring macaque cultures: A population-level approach. Virtual talk at the “Long-Tailed Macaque Project Workshop”. Invitation: Dr. M. Friis Hansen.
17. **Leca JB**. (2020). Studying behavioral by-products in Primatology. “Let’s Talk Primates 2.0” – Virtual Talk Series, Association of Indian Primatologists. [\[Link\]](#)
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)

42. Sciaky LR*, Weil RC*, Gunst N*, Wandia IN, **Leca JB.** (2021). Dyadic response facilitation in the expression of object play in Balinese long-tailed macaques. *7th Northeastern Evolutionary Primatology Meeting*, Boston University, Boston, MA, USA ("Runner-Up" Award for Best Presentation).
41. Cenni C*, Christie JBA*, Van der Pant DHL*, Wandia IN, **Leca JB.** (2021). Stone affordances shape the expression of object play in long-tailed macaques (*Macaca fascicularis*). *58th Annual Conference of the Animal Behavior Society – Virtual Meeting* (online video-recorded talk).
40. Sciaky LR*, Weil RC*, Gunst N*, Wandia IN, **Leca JB.** (2021). Social influence on the expression of stone handling behavior in Balinese long-tailed macaques. *58th Annual Conference of the Animal Behavior Society – Virtual Meeting* (online video-recorded talk).
39. Cenni C*, Christie JBA*, Van der Pant DHL*, Wandia IN, **Leca JB.** (2021). Extrinsic and intrinsic predictors of material culture in a non-human primate species: Stone handling in Balinese long-tailed macaques (*Macaca fascicularis*). *Culture Conference 2021: Evolutionary Perspectives on Culture – Virtual Meeting* (online video-recorded talk).
38. Sciaky LR*, Weil RC*, Gunst N*, Wandia IN, **Leca JB.** (2021). Dyadic response facilitation in the expression of object play in Balinese long-tailed macaques. *Culture Conference 2021: Evolutionary Perspectives on Culture – Virtual Meeting* (online video-recorded talk).
37. **Leca JB,** Gunst N*, Gardiner M*, Bunselmeyer C*, Dunn C*, Williams R, Wandia IN, Addessi E. (2020). A culturally maintained token economy in free-ranging monkeys. *57th Annual Conference of the Animal Behavior Society – Virtual Meeting* (online video-recorded talk). [\[Link\]](#)
36. Pal A*, Mukhopadhyay K, **Leca JB,** Sinha A. (2020). 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* (online video-recorded talk).
35. Cenni C*, Casarrubea M, Pellis SM, Gunst N*, Vasey PL, Wandia IN, **Leca JB.** (2020). Object play as a behavioral specialization in a non-human primate species. *57th Annual Conference of the Animal Behavior Society – Virtual Meeting* (online video-recorded talk).

34. Chertoff S*, Mitchell L, Cenni C*, **Leca JB**, Foroud A. (2020). Do monkeys fidget? Using movement analysis to understand causally opaque object manipulation. *57th Annual Conference of the Animal Behavior Society – Virtual Meeting* (online video-recorded talk).
33. Aiempichitkijkarn N*, McCowan B, Wandia IN, **Leca JB**. (2020). 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* (online video-recorded talk).
32. Aiempichitkijkarn N*, McCowan B, Wandia IN, **Leca JB**. (2020). A potential trade-off in robbing and bartering behavior in long-tailed macaques in Uluwatu temple, Bali, Indonesia. *89th Annual Meeting of American Association of Physical Anthropologists*, Los Angeles, CA, USA.
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)

19. Albanese V*, Berardi R, Llorente M, **Leca JB**. (2021). Mechanisms of expression of object play: A comparative study of stone handling in two captive groups of long-tailed macaques (*Macaca fascicularis*). *Iberian Forum for Primatology – Virtual event*.
18. **Leca JB**, Gunst N*, Bunselmeyer C*, Gardiner M*, Williams R, Addressi, A. (2021). Development of an ecologically valid non-human primate model of gambling. *Alberta Gambling Research Institute 20th Annual Conference – Gambling in Canada: Current Research & Future Directions* (held virtually). [\[Link\]](#)
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 |

- (*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

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. [\[Link\]](#)

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-present), 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. student (2021-present), Department of Psychology, University of Lethbridge: Sydney Chertoff, “Mechanisms of object-directed fidgeting in macaques and children”.

Ph.D. student (2021-present), Department of Psychology, University of Lethbridge: Richard Weil, “Mechanisms and evolution of object play and tool use in macaques”, supported by my NSERC – Discovery Grant.

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

M.Sc. student* (2021-present), Department of Psychology, University of Lethbridge: Caleb Bunselmeyer, “Bartering, gambling, and object manipulation in Balinese long-tailed macaques”, supported by my Major Grant from the Alberta Gambling Research Institute (co-supervision with Dr. E. Addessi).

M.Sc. candidate* (2021-present), Department of Anthropology and Museum Studies, Primate Behavior and Ecology program, Central Washington University, USA: Patricia Mitchell, “Drivers of stone-wrapping behavior in Balinese long-tailed macaques” (co-supervision with Dr. J. Mayhew).

M.Sc. degree* (2020-2021), Master in Primatology, University of Girona, Spain: Valeria Albanese, “Mechanisms of expression of object play: A comparative study of stone handling in two captive groups of long-tailed macaques (*Macaca fascicularis fascicularis*)”, self-funded student (co-supervision with Dr. M. Llorente).

M.Sc. degree* (2018-2021), Department of Psychology, University of Lethbridge: Sydney Chertoff, “Do monkeys fidget? Using movement analysis to understand the role of gaze direction on non-instrumental object manipulation: Stone handling in Balinese long-tailed macaques”, 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 Independent Study students, Department of Psychology, University of Lethbridge:

- Lambert Heatlie, M.Sc. candidate; Second Reader on research manuscript: “Are paraphilias sexual orientations?” (PSYC 5990 course; Sept. – Dec. 2021).
- Jackson Ham, M.Sc. candidate; Supervisor on research project: “Describing object play in beluga whales” (PSYC 5990 course; Sept. – Dec. 2020).

(Post-)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 el ene Meunier).

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

- Crystal Mulik*, “From water as a toy to water as a tool: Testing the effect of a creative educational environment in young children” (PSYC 4995; co-supervision with Dr. A. Foroud, 2022).
- Erin Davis*, “A study of wellness within the Bhutanese community of Lethbridge” (PSYC 4995; co-supervision with Dr. J. Mather, 2016).
- Aysu Calik, “Domains of sexual aversion and disgust” (PSYC 4995; Thesis Reader; supervisor: Dr. P. L. Vasey, 2019).
- Nathan Grigg, “The importance of olfaction in New World vultures: a comparative neuroanatomical study” (PSYC 4995; Thesis Reader; supervisor: Dr. A. Iwaniuk, 2015-2016).

Undergraduate Independent Study students, Department of Psychology, University of Lethbridge:
2022

- Doran Everest: "Evolutionary psychology of the functions of lithic objects in the early hominin landscape" (PSYC 3990)
- Stefania Nino: "Analyzing culturally-maintained object manipulation in monkeys" (PSYC 3990)

2021

- Makayla Arcand: "Maladaptive behaviors in extreme religious practices" (PSYC 3990)
- Bethany Barthel: "Mind wandering, creativity, and innovation" (PSYC 4990)
- Selena Boutilier: "Social media and personality disorders" (PSYC 4990)
- Selena Boutilier: "Inattention and its links to restorative brain functioning" (PSYC 4990)
- Skylar Bueckert: "Analysis of stone handling behaviour in Balinese long-tailed macaques" (PSYC 3990)
- Skylar Bueckert: "Video analysis of primate behaviour" (PSYC 4990)
- Nicole Furlan: "How religious rituals reinforce the religious experience" (PSYC 3990)
- Jamie Hackett: "Personality and the belief in supernatural fictional stories" (PSYC 3990)
- Mackenzie Krebs: "Video analysis of object manipulation in non-human primates" (PSYC 4990)
- Colette Mofakham: "Cross-cultural psychology of education" (PSYC 4990)
- Crystal Mulik: "Solitary object manipulation in Balinese long-tailed macaques" (PSYC 3990)
- Crystal Mulik: "Object manipulation and play in Balinese long-tailed macaques" (PSYC 4990)
- Crystal Mulik: "Development of tool use in children" (PSYC 4990)
- Maleeha Panjwani: "Divergent thinking, creativity, and intelligence" (PSYC 4990)

2020

- Christopher Fitzgerald: "Neurophysiology of religious experience" (PSYC 3990)
- Mackenzie Salmon*: "Video analysis of economic behavior in monkeys" (co-supervision with Dr. N. Gunst; PSYC 3990)
- Taylor Thomas: "Maladaptive religious practices" (PSYC 4990)
- Mollie Wyss-Mullins: "Gender and personality" (PSYC 3990)

2019

- Casey Bannister*: "Social cognition in monkeys via video analysis of behavior" (co-supervision with Dr. N. Gunst; PSYC 3990)
- Graham Bowden*: "Social cognition in monkeys via video analysis of behavior" (co-supervision with Dr. N. Gunst; PSYC 3990)
- Graham Bowden*: "Primate personality and economic behavior" (co-supervision with Dr. N. Gunst; PSYC 4990)
- Courtney Derksen*: "Social cognition in monkeys via video analysis of behavior" (co-supervision with Dr. N. Gunst; PSYC 4990)
- Hadyn Dresser*: "Cognition and situational learning in nonhuman animals" (co-supervision with Dr. N. Gunst; PSYC 4990)
- Keana Funk: "Rhythmic sound-producing stone-directed play in monkeys" (PSYC 4990)
- Keana Funk*: "Primate personality and economic behavior" (co-supervision with Dr. N. Gunst; PSYC 4990)
- Kyla Funk*: "Manipulation of symbolic tools in monkeys" (co-supervision with Dr. N. Gunst; PSYC 3990)
- Kelsey Harkness: "Analysis of fidgeting as a predictor of emotional states" (PSYC 3990)
- Edwin Jada*: "Social cognition in monkeys via video analysis of behavior" (co-supervision with Dr. N. Gunst; PSYC 3990)
- Bilise Kito*: "Social cognition in monkeys via video analysis of behavior" (co-supervision with Dr. N. Gunst; PSYC 4990)
- Logan Page: "Psychological mechanisms and evolution of rituals" (PSYC 4990)
- Logan Page: "Cross-species and cross-cultural phylogeny of ritual behavior" (PSYC 4990)
- Drayton Pratt*: "Cognition and situational learning in nonhuman animals" (co-supervision with Dr. N. Gunst; PSYC 3990)
- Drayton Pratt*: "Social cognition in monkeys via video analysis of behavior" (co-supervision with Dr. N. Gunst; PSYC 3990)
- Ghazal Singh*: "Social cognition in monkeys via video analysis of behavior" (co-supervision with Dr.

N. Gunst; PSYC 4990)

- Melissa Steinkey*: "Social cognition in monkeys via video analysis of behavior" (co-supervision with Dr. N. Gunst; PSYC 3990)
- Jessica Thiessen*: "Social cognition in monkeys via video analysis of behavior" (co-supervision with Dr. N. Gunst; PSYC 3990)
- Hilary Williams: "Video analysis of stone play behavior in Balinese monkeys" (PSYC 2990)

2018

- Stephanie Blencowe: "Object manipulation in monkeys" (PSYC 4990)
- Caleb Fernell: "Achievement goal theory: Motivation and applications" (PSYC 3990)
- Caitlin Furby: "Temporal structural analysis of object play behavior in macaques" (PSYC 3990)
- Kelsey Harkness: "Video analysis of fidgeting in monkeys" (PSYC 4990)
- Hayley Johnson: "Psychobiology of the belief in conspiracy theories" (PSYC 4990)
- Corinne Marshall: "Psychology of object play and tool use in children" (PSYC 3990)
- Makita Mikuliak: "Psychobiology of religious behavior and obsessive-compulsive disorder" (PSYC 4990)
- Jessica Thiessen*: "Behavioral mechanisms of female-male mounting in Japanese macaques" (co-supervision with Dr. N. Gunst; PSYC 3990)
- Samantha Tinworth: "Video analysis of object play behaviour in monkeys" (PSYC 3990)
- Brittany Toth: "Repetitive object play in monkeys" (PSYC 3990)

2017

- Caleb Fernell: "Evidence-based assessment of religious coping strategies" (PSYC 3990)
- Ryan Fukuda: "The evolution of religious beliefs" (PSYC 3990)
- Caitlin Furby: "Tool-assisted masturbation in Balinese long-tailed macaques" (PSYC 3990)
- Emmanuel Ipa: "Video analysis of monkey behaviour" (PSYC 3990)
- Sidhesh Mohak: "Kinematic analysis of goal-directed behavior in primates" (PSYC 4990)
- Jessica Sonmor: "Video analysis of stone play behaviour in monkeys" (PSYC 3990)
- Stephanie Varsanyi*: "Behavioral mechanisms of female-male mounting in Japanese macaques" (co-supervision with Dr. N. Gunst; PSYC 3990)

2016

- Samantha Lasante: "Personality and prejudice towards homosexuals" (PSYC 4990)
- Sidhesh Mohak: "Manual coordination in object play by non-human primates" (PSYC 3990)
- Ashna Prakash: "Many Gods' many voices: Psychosis in the Hindu religion" (PSYC 4990)
- Lyndsay Tomm: "HEXACO personality traits and religiosity in a sample of undergraduate students" (PSYC 4990)
- Lyndsay Tomm: "Personality and religious orientation" (PSYC 4990)
- Lindsay Tymchyna: "Personality in backpackers versus non-backpackers" (PSYC 4990)
- Lauren Vomberg: "Personality and religious fundamentalism" (PSYC 4990)
- Lauren Vomberg: "Statistical analysis of personality and degree of religiosity in Judaism" (PSYC 4990)
- Jessica Vos: "Prejudice in religious and non-religious individuals" (PSYC 4990)

2015

- Tracy Fillion: "A proximate perspective on religious behavior and belief: ontogenetic processes and causal mechanisms" (PSYC 4990)
- Riane McCallum: "Stone handling repertoire in long-tailed macaques" (PSYC 3990)
- Melissa McKinnon: "An ultimate perspective on religious behavior and belief: functional components and evolutionary history" (PSYC 4990)
- Amanda Pelletier: "Structure of the stone handling behaviour in Balinese long-tailed macaques" (PSYC 4990)

2012

- David Baran*: "Socio-sexuality in human/non-human animals: A literature review" (co-supervision with Dr. P. L. Vasey; PSYC 3990)

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

- Caleb Fernell: “Therapeutic Arts in Native American Culture” (Summer 2018; PSYC 4980)
- Sidhesh Mohak*: “Object play and tool in young children” (Spring 2018; co-supervision with Dr. A. Foroud; PSYC 4980)
- Amanda Maki: “Effects of equine-assisted therapy on children with psychological disorders and physical disabilities” (Summer 2017; PSYC 4980)
- Rosemary Boisson*: “Integration of Syrian refugees into the Canadian society” (Spring 2017; co-supervision with Dr. A. Khalil; PSYC 4980)

Graduate supervisory committees

- 2021-present **M.Sc. candidate**, Department of Psychology, University of Lethbridge: “Pupillary responses to sexual imagery and their relation to various measures of personality in heterosexual men” (Lambert Heatlie; supervisor: P. Vasey).
- 2021-present **Ph.D. candidate**, Department of Psychology, University of Lethbridge: “Cross-cultural examination of biodevelopmental pathways and psychosocial correlates of male androphilia” (Mostafa Sadrbaaz; supervisor: P. Vasey).
- 2021-present **M.Sc. candidate**, Department of Psychology, University of Lethbridge: “Note structure and variation in Adelaide’s warblers” (Samantha Huang; supervisor: D. Logue).
- 2020-present **M.A. candidate**, Department of Psychology, University of Lethbridge: “Wildlife connectivity: A mixed methods approach to understanding tolerance to urban wildlife” (Joshua Hill; supervisor: L. Barrett).
- 2019-present **M.Sc. candidate**, Department of Psychology, University of Lethbridge: “Relative deprivation, stress, and risk-taking” (Anthony Schoen; co-supervisors: S. Allen and J. Williams).
- 2017-2021 **Ph.D. degree**, Department of Psychology, University of Lethbridge: “Conditions promoting and preventing social learning among the vervets” (Christina Nord; co-supervisors: L. Barrett and P. Henzi).
- 2017-present **Ph.D. candidate**, Department of Psychology, University of Lethbridge: “Mechanisms and evolution of male androphilia in the Istmo Zapotec” (Francisco Gómez; supervisor: P. Vasey).
- 2016-2020 **Ph.D. degree**, Department of Psychology, University of Lethbridge: “Inter-sexual mate competition: A previously unrecognized factor in the evolution of human mating” (Scott Semenyna; supervisor: P. Vasey).
- 2016-2020 **Ph.D. degree**, Department of Psychology, University of Lethbridge: “Male sexual orientation: a cross-cultural perspective” (Lanna Petterson; supervisor: P. Vasey).
- 2015-2017 **M.Sc. degree**, Department of Biological Science, University of Lethbridge: “The genetic basis of plumage polymorphism and behaviour in ruffed grouse” (Ashley Jensen; co-supervisors: T. Burg and A. Iwaniuk).
- 2015-2017 **M.Sc. degree**, Department of Psychology, University of Lethbridge: “Cross-culturally invariant aspects of male androphilia in the Istmo Zapotec” (Francisco Gómez; supervisor: P. Vasey).
- 2015-2017 **M.Sc. degree**, Department of Neuroscience, University of Lethbridge: “The expression of nonapeptide receptors in relation to mating system in Richardson’s ground squirrels” (Juliana Araújo; supervisor: A. Iwaniuk).

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; supervisor: M.A. Huffman)

Chairing Graduate Comprehensive Examination and Graduate Thesis Examination

- 2021 **Chair of Thesis Examination Committee**, Department of Psychology, University of Lethbridge.
- “Is the dawn chorus an adaptation to warm up the voice in Adelaide's warbler (*Setophaga Adelaidae*)?” (Juleyska Vazquez-Cardona, M.Sc. candidate; supervisor: Dr. David Logue).
 - “An ecological approach to empathy” (Christa Avram, M.Sc. candidate; supervisor: Dr. Louise Barrett).
- 2021 **Chair of Comprehensive Examination**, Department of Psychology, University of Lethbridge (Leila Armstrong, Ph.D. candidate; co-supervisors: Dr. Louise Barrett and Dr. Peter Henzi).
- 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; supervisor: Dr. Alain Takam).
- 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; supervisor: Dr. Paul Vasey).

ACADEMIC SERVICES AND PROFESSIONAL CONTRIBUTIONS

Service activities for the Department of Psychology

- Vice-President of the Psyence Publishing Society (Nov. 2020 – present)
- Departmental Graduate Teaching Assistant Coordinator (Jul. 2020 – present)
- Departmental Salary Tenure & Promotion Committee (Jul. 2020 – Jun. 2021): 1 application reviewed (Full Professor promotion)
- Departmental representative of the Campus Incident Response Team (CIRT; Sept. 2019 – present)
- Psychology Curriculum Committee (Oct. 2018 – present): Ongoing and complete revision of the curriculum
- 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): 48 applications reviewed:
 - Tenure Track Assistant Professor, N = 31 (2021)
 - Adjunct Faculty, N = 3 (2014 – 2020)
 - Instructor positions, N = 14 (2017)
- 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): Member and Alternate Chair
- Search and Chair Selection Committee in the Department of Modern Languages and Linguistics (2019 – 2020): External alternate faculty member
- Animal Welfare Committee (2019 – present): Psychology Department Representative Member
- 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 – 2020)
- Participant in *Destination Project “super-week”* meetings: Design and construction of a new Science and Academic Building at the University of Lethbridge (2016 – 2018)

Judging activities for and beyond the University of Lethbridge

- Excellence Award judge (category: Senior students, Bilingual), and member of the National Judging Team for the Grand Awards Committee at the annual *Canada-Wide Science Fair* (2021, held virtually)
- Judge at the annual *Lethbridge Regional Science Fair* events, University of Lethbridge (2016, 2017, 2018, 2019)
- Judge for the Qualifying Heats of the annual *Three Minute Thesis competition* (3MT®), hosted by the School of Graduate Studies (2018, 2019, 2020)

Peer reviewer for scientific journals (total number of reviews: 118)

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* (9), *Behavioral Ecology* (1), *Behaviour* (7), *Behavioural Processes* (5), *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* (15), *Human Nature* (4), *International Journal of Comparative Psychology* (1), *International Journal of Primatology* (2), *Journal of Comparative Psychology* (5), *Journal of Ethology* (3), *Journal of Neuroscience, Psychology, and Economics* (2), *Neuroscience and Biobehavioral Review* (1), *Open Research Europe* (2), *Palgrave Communications – Nature* (2), *PeerJ* (1), *Philosophical Transactions of the Royal Society B* (3), *PLoS ONE* (4), *Primates* (11), *Revue de Primatologie* (1), *Scientific Reports* (6), *Yearbook of Physical Anthropology* (1), *Zoological Studies* (1)

Book reviewer for *Choice: Current Reviews for Academic Libraries* (total number of book reviews: 19)

- *Mammalian Sexuality: The Act of Mating and the Evolution of Reproduction*, by Alan F. Dixson. Cambridge University Press, 2021. [\[link\]](#)
- *Unique: The New Science of Human Individuality*, by David J. Linden. Basic Books, 2020. [\[link\]](#)
- *The Selfish Ape: Human Nature and Our Path to Extinction*, by Nicholas P. Money. Reaktion Books, 2019. [\[link\]](#)
- *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 (11):
 - *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

- **Advisory Board** for the peer-reviewed journal: *Primates* (since 2021)
- **Editorial Board** for the peer-reviewed journals: *Evolutionary Psychological Science*, *Frontiers in Psychology* (since 2014)
- **Animal Behavior Society Education Committee** (Outstanding Children's Book Award Subcommittee: 2017)
- **Scientific Committee member**: European Federation for Primatology (2017)
- **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*
- The Long-Tailed Macaque Project - An international conservation collaboration
www.theltmproject.org

MEDIA AND OTHER RESEARCH OUTREACH ACTIVITIES

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

- *Parsing Science*, USA (Mar. 2021) [[Link](#)]
- *BBC Sounds*, UK (Jan. 2021) [[Link](#)]
- *CBC Radio, The Current*, Canada (Jan. 2021) [[Link](#)]
- *GeoBeats Animals* (Jan. 2021) [[Link](#)]
- *The Moncrieff Show on Newstalk*, Ireland (Jan. 2021) [[Link](#)]
- *CBC Radio-One*, Calgary, Canada (Doug Dirks: *The Homestretch* – Apr. 2019)
- *University of Lethbridge Research News*, Canada (Trevor Kenney – Apr. 2019) [[Link](#)]
- *Ici Radio-Canada, CBC*, Canada (Sandra Gagnon: *La croisée* – Jun. 2017) [[Link](#)]
- *Le Monde*, Paris, France (Pierre Trouvé – Jun. 2017) [[Link](#)]
- *Global News TV-Lethbridge*, Canada (Allie Miller – Jul. 2016) [[Link](#)]
- *CTV-Lethbridge*, Canada (Terry Vogt – Jun. 2016) [[Link](#)]
- *CBC Radio-One*, Calgary, Canada (Doug Dirks: *The Homestretch* – Jun. 2016) [[Link](#)]
- *University of Lethbridge Research News*, Canada (Trevor Kenney – Jun. 2016) [[Link](#)]
- *BBC-2*, Natural History Unit, UK (Chris Packham: *World's Sneakiest Animals Series* – Jan. 2016) [[Link1](#)] [[Link2](#)]
- *PBS-Nature*, USA (Chris Packham: *Natural Born Hustlers Series* – Jan. 2016) [[Link](#)]

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

- *The Economist*, UK (Jan. 2021) [[Link](#)]
- *The Guardian*, UK (Jan. 2021) [[Link](#)]
- *CBC Radio Canada, ICI Alberta* (Jan. 2021) [[Link](#)]
- *Nature Briefing* (Jan. 2021) [[Link](#)]
- *CNN Travel* (Jan. 2021) [[Link](#)]
- *CTV News* (Jan. 2021) [[Link](#)]
- *Daily Mail.com* (Jan. 2021) [[Link](#)]
- *Kodami*, Italy (Jan. 2021) [[Link](#)]
- *News Channel 3* (Jan. 2021) [[Link](#)]
- *Süddeutsche Zeitung*, Germany (Jan. 2021) [[Link](#)]
- *TechRegister* (Jan. 2021) [[Link](#)]
- *Yahoo News!* (Jan. 2021) [[Link](#)]
- *CBC News*, Calgary, Canada (Pamela Fieber – Apr. 2019) [[Link](#)]
- *SciShow* (Christie Wilcox – Mar. 2019) [[Link](#)]
- *BBC-Mundo*, Mexico (Jun. 2017) [[Link](#)]
- *la Repubblica*, Roma, Italy (Giuliano Aluffi – Jun. 2017) [[Link](#)]
- *Université de Liège*, Belgium (Jun. 2017) [[Link](#)]
- *Science Alert* (Signe Dean – May 2017) [[Link](#)]
- *Science Global News* (May 2017) [[Link](#)]
- *Mother Nature Network* (Russel McLendon – May 2017) [[Link](#)]
- *The Times*, London, UK (Tom Whipple – May 2017) [[Link](#)]
- *New Scientist*, London, UK (Brian Owens – May 2017) [[Link](#)]
- *Global News*, Canada (Jun. 2016) [[Link](#)]
- *PBS Learning Media platform*, educational resource for students 5th-12th grades (Jun. 2016) [[Link](#)]

Interviews about my research on sexual behaviors in Japanese macaques

- *CBC Radio-One*, Canada (Carol Off: *As It Happens* – Dec. 2017) [[Link](#)]
- *University of Lethbridge Research News*, Canada (Trevor Kenney – Jan. 2015) [[Link](#)]
- *University of Lethbridge Research News*, Canada (Trevor Kenney – Apr. 2013) [[Link](#)]
- *CBC-Television*, Canada (Bryce Sage: *The Nature of Things* – Mar. 2013)

Press releases about my research on sexual behaviors in Japanese macaques

- *The Guardian* (Nicola Davis – Dec. 2017) [[Link](#)]
- *New Scientist* (Sam Wong – Dec. 2017) [[Link](#)]
- *NPR* (Camila Domonoske: *The Two-Way* – Dec. 2017) [[Link](#)]
- *Inverse Science* (Peter Hess – Dec. 2017) [[Link](#)]
- *National Geographic* (Elaina Zachos – Dec. 2017) [[Link](#)]
- *Daily Mail Online* (Keiran Southern – Dec. 2017) [[Link](#)]
- *The Washington Post* (Kristine Phillips – Dec. 2017) [[Link](#)]
- *Popular Science* (Rachel Feltman – Dec. 2017) [[Link](#)]
- *Le Monde* (Nathaniel Herzberg – Dec. 2017) [[Link](#)]
- *Le Figaro* (Tristan Vey – Dec. 2017) [[Link](#)]
- *Allo Docteurs?* (Marina Carrere d'Encausse – Dec. 2017) [[Link](#)]
- *20 minuten* (Jean-Claude Gerber – Dec. 2017) [[Link](#)]
- *Die Welt* (Jean-Claude Gerber, Dec. 2017) [[Link](#)]

Interviews about my research on mona monkeys in Grenada

- *Grenadian Government Information Services TV channel* (Apr. 2014)
- *Jamaica Observer* (May 2014) [[Link](#)]

Press releases about my research on animal play cultures

- *Knowledgeable Magazine, USA* (Mar. 2021) [[Link](#)]
- *Science & Vie, France* (Apr. 2021) [[Link](#)]
- *The Atlantic, USA* (Apr. 2021) [[Link](#)]
- *Frontiers in Ecology and the Environment* (Adrian Burton – Mar. 2019) [[Link](#)]
- *Discovery News* (Feb. 2013) [[Link](#)]
- *Science on NBC News* (Jennifer Viegas – Dec. 2009) [[Link](#)]
- *The Japan Times* (Rowan Hooper – Aug. 2009) [[Link](#)]

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)
- *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