

STEIG ERIC JOHNSON, Ph.D.

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RESEARCH INTERESTS

- Primate population and behavioural ecology
- Primate conservation biology
- Community and functional ecology in tropical rain forests
- Hybrid zones and speciation

EDUCATION

Aug 2002 Ph.D., Anthropology, University of Texas at Austin
Dec 1995 M.A., Anthropology, University of Texas at Austin
Dec 1990 B.A., Anthropology, University of California at Berkeley

ACADEMIC & PROFESSIONAL POSITIONS

2018-2023 **Associate Dean**, Research & Infrastructure, Faculty of Arts, University of Calgary
2012-Present **Associate Professor**, Dept. of Anthropology & Archaeology, University of Calgary
2005-2012 **Assistant Professor**, Dept. of Anthropology, University of Calgary
2004-2005 **Sessional Instructor**, Dept. of Anthropology, University of Calgary
2003-2004 **Postdoctoral Research Associate**, Institute for the Conservation of Tropical Environments (ICTE), Stony Brook University

HONOURS & AWARDS

2019 **GREAT Supervisor Award**, University of Calgary
2015 **Peak Scholar in Entrepreneurship, Innovation, and Knowledge Engagement**, University of Calgary

RESEARCH GRANTS

Since joining the University of Calgary in 2005, I have accrued a total of **\$532,378 CAD in external grants as Principal Investigator**. Many of these are small grants to support graduate student research, wherein the students take a lead role in developing the proposals. I have also accrued **\$2,303,113 CAD in external grants as Co-Principal Investigator, Co-Investigator, or Co-Applicant**.

As Principal Investigator

Dec 2022 **Leakey Foundation**. Feast and famine: Nutrigenomics of frugivorous lemurs in southeastern Madagascar; with Hasinala Ramangason (**\$20,000 USD**).

Jan 2021 **Rufford Foundation**. Spatio-temporal variation in fruit supply in a highly fragmented landscape: Response of frugivorous lemurs; with Hasinala Ramangason (**\$10,000 USD**).

Jun 2020 **Lemur Conservation Action Fund, Global Wildlife Conservation**. Taking camera trapping to new heights: Arboreal camera trapping for lemur conservation; with Pamela Narváez-Torres, Hasinala Ramangason, and Zachary Jacobson (**\$15,000 USD**).

Jan 2020 **Calgary Zoological Society**. Leveraging biodiversity to restore fragile ecosystems: The integrated conservation and research program at Kianjavato-Vatovavy, Madagascar; with Madagascar Biodiversity Partnership and Calgary Zoo Centre for Conservation Research (**\$175,000 CAD**).

- May 2019 **Lemur Conservation Action Fund, Global Wildlife Conservation.** Lemur paparazzi: Occupancy modeling of lemur communities using arboreal camera traps in the Kianjavato region of southern Madagascar; with Devin Chen **(\$3095 USD)**.
- May 2019 **Lemur Conservation Action Fund, Global Wildlife Conservation.** Assessing lemur functional diversity through the use of arboreal and terrestrial camera-traps in disturbed forests and reforested areas in southeast Madagascar; with Pamela Narváez-Torres **(\$4060 USD)**.
- Jul 2017 **Calgary Zoological Society.** Leveraging biodiversity to restore fragile ecosystems: The integrated conservation and research program at Kianjavato-Vatovavy, Madagascar; with Madagascar Biodiversity Partnership and Calgary Zoo Centre for Conservation Research **(\$100,000 CAD)**.
- Aug 2016 **Primate Action Fund, Margot Marsh Biodiversity Foundation/Conservation International.** Habitat influences on lemur diversity in Kianjavato-Vatovavy, Madagascar; with Pamela Narváez-Torres **(\$2000 USD)**.
- Aug 2016 **Primate Action Fund, Margot Marsh Biodiversity Foundation/Conservation International.** Are *Varecia variegata* cathemeral at Kianjavato, Madagascar?; with Nicola Guthrie **(\$2000 USD)**.
- Aug 2015 **Primate Action Fund, Margot Marsh Biodiversity Foundation/Conservation International.** Functional diversity of the lemur community at Ranomafana National Park, Madagascar; with Brianna Houston **(\$3000 USD)**.
- Feb 2015 **Primate Action Fund, Margot Marsh Biodiversity Foundation/Conservation International.** Environmental Influences on Lemur Functional Diversity at Kianjavato-Vatovavy, Madagascar; with Cécile Jacquot **(\$4000 USD)**.
- Jul 2014 **Primate Action Fund, Margot Marsh Biodiversity Foundation/Conservation International.** Influence of Landscape Features on the Distribution of the Aye-aye (*Daubentonia madagascariensis*) in Madagascar; with Megan Aylward **(\$2500 USD)**.
- Jun 2014 **Primate Action Fund, Margot Marsh Biodiversity Foundation/Conservation International.** Ecology of Sympatric *Eulemur rufifrons*, *E. rubriventer*, and *Varecia variegata* in Kianjavato, Madagascar; with Sheila Holmes **(\$3000 USD)**.
- Apr 2014 **Natural Sciences and Engineering Research Council (NSERC).** Functional diversity in lemur communities **(\$135,000 CAD)**.
- Jan 2014 **Primate Conservation, Inc.** Sharing a shrinking habitat: a multi scale investigation of sympatry in three lemurs; with Sheila Holmes **(\$2900 USD)**.
- Aug 2010 **Primate Conservation, Inc.** Habitat use & population genetics of *Varecia variegata editorum*; with Sheila Holmes **(\$2400 USD)**.
- Aug 2010 **Primate Action Fund, Margot Marsh Biodiversity Foundation/Conservation International.** Habitat use and population genetics of *Varecia variegata editorum* in a fragmented landscape at Kianjavato, Madagascar; with Sheila Holmes **(\$2500 USD)**.
- Mar 2010 **University Research Grants Committee Travel Grant, University of Calgary.** Presentation at International Primatological Society, Kyoto, Japan **(\$1800 CAD)**.
- May 2008 **Primate Action Fund, Margot Marsh Biodiversity Foundation/Conservation International.** Conservation implications of hybridization between two species of brown lemur (*Eulemur fulvus rufus* and *E. albocollaris*) at Andringitra, Madagascar; with Kira Delmore **(\$4500 USD)**.
- Jan 2008 **Primate Conservation, Inc.** Conservation implications of hybridization between two species of brown lemur, *Eulemur fulvus rufus* and *E. albocollaris*; with Kira Delmore **(\$2495 USD)**.

- Oct 2007 **Primate Action Fund, Margot Marsh Biodiversity Foundation/Conservation International.** Social structure and female foraging strategies in white-collared lemurs (*Eulemur albocollaris*) of southeastern Madagascar; with Annemarie Rued and Jonah Ratsimbazafy (**\$2500 USD**).
- Oct 2007 **Primate Action Fund, Margot Marsh Biodiversity Fund/Conservation International.** Edge effects on the white-collared lemur, *Eulemur albocollaris*, and seven sympatric lemur species in southeast Madagascar; with Christina Ingraldi (**\$4000 USD**).
- Aug 2007 **University Research Grants Committee Starter Grant**, University of Calgary. Population structure and ecology of a brown lemur (*Eulemur*) hybrid zone (**\$14,637 CAD**).
- May 2007 **Primate Conservation, Inc.** Forest Fragmentation and Edge Effects on Eight Sympatric Lemur Species in Southeastern Madagascar; with Christina Ingraldi (**\$1000 USD**).
- Mar 2006 **University Research Grants Committee Travel Grant**, University of Calgary. Presentation at International Primatological Society, Entebbe, Uganda. (**\$1500 CAD**).
- Dec 2003 **Primate Conservation, Inc.** Assessment of *Haplemur aureus* and *H. simus* populations in the southern parcel of Ranomafana National Park, Madagascar (**\$1200 USD**).
- Feb 2000 **National Science Foundation Dissertation Improvement Award.** Comparative ecology of brown lemurs (*Eulemur fulvus* spp.): Analysis of sympatric and allopatric populations in southeastern Madagascar (**\$5000 USD**).
- Jan 2000 **Institute for International Education Fulbright Award.** Comparative ecology of brown lemurs and hybrids in southeastern Madagascar (**\$22,000 USD**).
- Jan 1999 **Wenner-Gren Foundation for Anthropological Research.** Comparative ecology of two brown lemurs (*Eulemur fulvus* spp.): Analysis of isolated and hybrid populations in southeastern Madagascar (**\$15,000 USD**).
- May 1997 **Primate Conservation, Inc.** A census of boundary zones of *Eulemur fulvus albocollaris* in southeastern Madagascar (**\$3000 USD**).
- May 1996 **Tinker Foundation Research Travel Grant.** A survey of three species of capuchins in Colombia (**\$700 USD**).
- May 1995 **Primate Conservation, Inc.** A survey of brown lemur populations in southeastern Madagascar (**\$5500 USD**).
- May 1995 **International Education Fee Scholarship, University of Texas.** A survey of brown lemurs in southeastern Madagascar (**\$2500 USD**).
- As Co-Principal Investigator/Co-Investigator/Co-Applicant**
- Mar 2024 **National Science Foundation.** BoCP-Implementation: Cascading impacts of landscape structure on forest regeneration; co-PI with PI Onja Razafindratsima and co-PI Kerry Brown (**\$1,207,852 USD**).
- May 2021 **Faculty of Arts Impact Fund COVID-19 Research Grant**, University of Calgary. Coronavirus reservoirs at a human-wildlife interface; collaborator with PI Amanda Melin and collaborators Hasinala Ramangason and Sabateeshan Mathavarajah (**\$10,000 CAD**).
- Nov 2020 **Swedish Research Council (Vetenskapsrådet).** Do seed dispersers facilitate sustainable development in Madagascar?; co-Applicant with PI Sheila Holmes and co-Applicants Seheno Andriantsaralaza, Kerry Brown, Joris Cromsigt, Tim Hofmeester, and Onja Razafindratsima (**4,473,039 SEK/\$653,127 CAD**).
- May 2008 **Margot Marsh Biodiversity Foundation.** Conservation monitoring of the aye-aye, *Daubentonia madagascariensis*, at four sites in Madagascar; co-PI with PI Edward Louis Jr. and co-PIs Gilbert Rakotoarisoa and Alison Cameron (**\$20,000 USD**).

May 2007 **Primate Conservation, Inc.** A population density survey of the diurnal and cathemeral lemurs of Marojejy National Park, Madagascar; co-PI with PI Emily Sluzas and co-PIs Erik Patel and Abigail Derby (**\$1360 USD**).

PUBLICATIONS

My research program integrates diverse approaches to primate ecology. It is field-based, focuses on long-lived organisms, and can require years of data collection for publication. Along with my trainees, I lead analyses of behavioural and population ecology, and my expertise is sought by other research groups in these areas. I have also built these interdisciplinary collaborations to more effectively address complex research questions in ecology and evolution.

I make it a high priority to include trainees whenever they can contribute ideas, data, or analyses. Students are first authors for papers based on research that they lead (usually thesis). As head of the lab, I am usually last (senior) author; I may also offer senior position to heads of labs where my students have trained and conducted analyses. To promote their recognition and networking, students are almost exclusively given presenting author position on conference papers. My position on articles led by collaborators depends on the extent of my contribution – typically among the first few or last few when most substantive in ideas or analyses.

To reach our peers, we publish in high-impact disciplinary journals (e.g., American Journal of Primatology, Scopus CiteScore 4.5; American Journal of Biological Anthropology, CS 4.8) or more widely in biology and ecology (e.g., Global Change Biology, CS 21.5; BioScience, CS 14.1; Biological Conservation, CS 10.2; Journal of Applied Ecology, CS 9.8). For our highest profile contributions, we target major, broad-interest venues such as Science (CS 61.1), Nature Climate Change (CS 40.3), Science Advances (CS 21.4), and Proceedings of the National Academy of Sciences of the USA (CS 19.0).

According to Google Scholar, my **h-index is 29 and 19 since 2019** (the shorter time frame somewhat reducing the bias in this metric). According to SciVal, my **Field-Weighted Citation Impact is 2.10**, indicating that my papers are cited 110% more than the global average for similar publications. Furthermore, **a majority (58.1%) of my publications are in the top 10% most-cited journals** (CiteScore), and **21.2% of my papers are in the top 10% of cited papers globally**. My **International Collaboration rate for publications is 97%**.

JOURNAL ARTICLES (REFEREED) (*Trainee co-authors are underlined*)

1. Greco I, Beaudrot L, Sutherland C, Tenan S, Hsieh C, Gorczynski D, Sheil D, Brodie J, Firoz Ahmed M, Ahumada J, Amin R, Baker-Watton M, Husneara Begum R, Bisi F, Bitariho R, Campos-Arceiz A, Ahimsa, Carvalho Jr. EAR, Cornélis D, Cremonesi G, Londe de Camargos V, Elimanantsoa I, Espinosa S, Fayolle A, Fonteyn D, Harihar A, Hilser H, Granados A, Jansen PA, Mohd-Azlan J, Johnson C, **Johnson SE**, Lahkar D, Guimarães Moreira Lima M, Luskin MS, Magioli M, Martin EH, Martinoli A, Gonçalves Morato R, Mugerwa B, Pardo LE, Salvador J, Santos F, Vermeulen Wright PC, and Rovero F. 2025. Landscape-level human disturbance results in loss and contraction of mammalian populations in tropical forests. PLOS Biology 23(2):e3002976.
<https://doi.org/10.1371/journal.pbio.3002976>
2. Narváez-Torres PR*, Guthrie NK*, Bricchieri-Colombi TA, Razafindravelo CP, Jacobson ZS, Tera F, Rafidimanana DV, Rahasivelo ZE, Petersen MA, Ramangason H, Randall L, McPherson JM, Frasier CL, Moehrenschrager A, Holmes SM, Louis Jr. EE, and **Johnson SE**. 2025. Losing lemurs: Declining

- populations and land cover changes over space and time. *American Journal of Primatology* 87(1): e23615. Doi.org/10.1002/ajp.23615. *Contributed equally
3. Bischof R, Vallejo-Vargas AF, Semper-Pascual A, Schowanek SD, Beaudrot L, Turek D, Jansen PA, Rovero F, **Johnson SE**, Guimarães Moreira Lima M, Santos F, Uzabaho E, Espinosa S, Ahumada JA, Bitariho R, Salvador J, Mugerwa B, Sainge MN, and Sheil D. 2024. The moon's influence on the activity of tropical forest mammals. *Proceedings of the Royal Society B: Biological Sciences* 291: 20240683. <http://doi.org/10.1098/rspb.2024.0683>
 4. Behie AM, Steffens TS, Yaxley K, Vincent A, Wright PC, **Johnson SE**, and Pavelka MSM. 2024. Can cyclone exposure explain behavioural and demographic variation among lemur species? *PLOS ONE* 19(3): e0300972. <https://doi.org/10.1371/journal.pone.0300972>
 5. Hsieh C, Gorczyński D, Bitariho R, Espinosa S, **Johnson S**, Guimarães Moreira Lima M, Rovero F, Salvador J, Santos F, Sheil D, and Beaudrot L. 2024. Evolutionary history and environmental variability structure contemporary tropical vertebrate communities. *Global Ecology and Biogeography* 33(5): e13829. Doi.org/10.1111/geb.13829
 6. Petersen MA, Holmes SM, Chen LD, Ravoniarinalisoa PV, Moehrensclager A, Louis EE Jr., and **Johnson SE**. 2023. Flexitime: Black-and-white ruffed lemurs (*Varecia variegata*) use opposing strategies to counter resource scarcity in fragmented habitats. *International Journal of Primatology* 44:1200-1225. Doi.org/10.1007/s10764-023-00397-0.
 7. Schübler D, Blanco MB, Guthrie NK, Sgarlata GM, Dammhahn M, Ernest M, Evasoa MR, Hasiniaina A, Hending F, Jan F, le Pors F, Miller A, Olivieri G, Rakotonanahary AN, Rakotondranary SJ, Rakotondravony R, Ralantoharijaona T, Ramananjato V, Randrianambinina B, Raelinjanakolona NN, Rasoazanabary E, Rasoloarison RM, Rasolofoson DW, Rasoloharijaona S, Rasolondraibe E, Hyde Roberts S, Teixeira H, van Elst R, **Johnson SE**, Ganzhorn JU, Chikhi L, Kappeler PM, Louis EE Jr., Salmons J, and Radespiel U. 2023. Morphological variability or inter-observer bias? A methodological toolkit to improve data quality of multi-researcher datasets for the analysis of morphological variation. *American Journal of Biological Anthropology* 183(1):60-78. Doi.org/10.1002/ajpa.24836
 8. Eppley T, Hoeks S, Chapman C, Ganzhorn J, Hall S, Owen M, Adams D, Allgas N, Amato K, Andriamahaiavana M, Aristizabal J, Baden A, Balestri M, Barnett A, Bicca-Marquez J, Bowler M, Boyle S, Brown M, Caillaud D, Calegari-Marques C, Campbell C, Campera M, Campos F, Cardoso T, Carretero-Pinzón X, Champion J, Chaves O, Chen-Kraus C, Colquhoun I, Dean B, Dubreuil C, Ellis K, Erhart E, Evans K, Fedigan L, Felton A, Ferreira R, Fichtel C, Fonseca M, Fontes I, Fontes V, Fumian I, Gibson D, Guzzo G, Hartwell K, Heymann E, Hilário R, Holmes S, Irwin M, **Johnson S**, et al. 2022. Factors favoring transitions to terrestriality in primates of Madagascar and the Americas. *Proceedings of the National Academy of Sciences of the USA* 119(42):e2121105119. Doi.org/10.1073/pnas.2121105119
 9. Gorczyński D, Hsieh C, Ahumada J, Akampurira E, Andrianarisoa M, Espinosa S, **Johnson S**, Kayijamahe C, Lima M, Mugerwa B, Rovero F, Salvador J, Santos F, Sheil D, Uzabaho E, and Beaudrot L. 2022. Human density modulates spatial associations among tropical forest terrestrial mammal species. *Global Change Biology* 28(24):7205-7216. Doi.org/10.1111/gcb.16434
 10. Estrada A, Garber P, Gouveia S, Fernández-Llamazares A, Ascensão F, Fuentes A, Garnett S, Shaffer C, Bicca-Marques J, Fa J, Hockings K, Shantee S, **Johnson SE** Shepard G, Shantee N, Golden C, Cárdenas-Navarrete A, Levey D, Boonratana R, Dobrovolksi R, Chaudhary A, Ratsimbazafy J, Supriatna J, Kone I, Volampeno S. 2022. Global importance of Indigenous Peoples their lands and knowledge systems for saving the world's primates from extinction. *Science Advances* 32(8):1-19. Doi.org/10.1126/sciadv.abn2927
 11. Wampole EM, Gerber BD, Farris ZJ, Razafimahaimodison JC, Andrianarisoa MH, Ralazampirenena CJ, Wright PC, Rasamisoa CD, Gibson D, Tobler MW, Eppley TM, Vasey N, **Johnson SE**, Filla C, Valenta K,

- Ross P, Murphy A, Karpanty SM, Kelly MJ, Anderson C, Cardinal C, Donati G, Razafy P, Rafaliarison T, Rasambainarivo F, Razafindramanana J, Merson SD, and Larney E. 2022. Madagascar Terrestrial Camera Survey Database 2021: A collation of protected forest camera surveys from 2007–2021. *Ecology* 103: e3687. Doi.org/10.1002/ecy.3687.
12. McManus N, Holmes SM, Louis Jr. EE, **Johnson SE**, Baden AL, and Amato KR. 2021. The gut microbiome as an indicator of habitat disturbance in a Critically Endangered lemur. *BMC Ecology and Evolution* 21:222. Doi.org/10.1186/s12862-021-01945-z.
 13. Borgerson C*, **Johnson SE***, Hall E, Brown KA, Narváez-Torres PR, Rasolofoniaina BJR, Razafindrapaoly BN, Merson SD, Thompson KET, Holmes SM, Louis Jr. EE, and Golden CD. 2021 A national-level assessment of lemur hunting pressure in Madagascar. *International Journal of Primatology* 43:92-113. Doi.org/10.1007/s10764-021-00215-5. *Contributed equally
 14. Chen DM, Narváez-Torres PR, Tiafinjaka O, Farris ZJ, Rasoloharijaona S, Louis Jr. EE, and **Johnson SE**. 2021. Lemur paparazzi: arboreal camera trapping and occupancy modeling as conservation tools for monitoring threatened lemur species. *American Journal of Primatology* 83(7): e23270. Doi.org/10.1002/ajp.23270
 15. Melin AD, Orkin JD, Mareike CJ, Valenzuela A, Kuderna L, Marrone F, Ramangason H, Horvath JE, Roos C, Kitchener AC, Khor CC, Lim WK, Lee JGH, Tan P, Umapathy G, Raveendran M, Harris A, Gut I, Gut M, Lizano E, Nadler T, Zinner D, Le MD, Manu S, Rabarivola C, Zaramody A, Andriaholinirina N, **Johnson SE**, Jarvis ED, Fedrigo O, Wu D, Zhang G, Farh KK, Rogers J, Marques-Bonet T, Navarro A, Juan D, Arora PS, and Higham JP. 2021. Variation in predicted COVID-19 risk among lemurs and lorises. *American Journal of Primatology* 83:e23255. Doi.org/10.1002/ajp.23255
 16. Gorczynski D, Hsieh C, Luciano JT, Ahumada J, Espinosa S, **Johnson SE**, Rovero F, Santos F, Andrianarisoa MH, Astaiza JH, Jansen PA, Kayijamahe C, Moreira Lima MG, Salvador J, and Beaudrot L. 2021. Tropical mammal functional diversity increases with productivity but decreases with anthropogenic disturbance. *Proceedings of the Royal Society B: Biological Sciences* 288: 20202098. Doi.org/10.1098/rspb.2020.2098
 17. Junker J, Petrovan SO, Arroyo-Rodríguez V, Boonratana R, Byler D, Chapman, CA, Chetry D, Cheyne SM, Cornejo FM, Cortés-Ortiz L, Cowlshaw G, Christie AP, Crockford C, de la Torre S, De Melo FR, Fan P, Grueter CC, Guzmán-Caro DC, Heymann EW, Herbinger I, Hoang MD, Horwich RH, Humle T, Ikemeh RA, Imong IS, Jerusalinsky L, **Johnson SE**, Kappeler PM, Kierulff MCM, Koné I, Kormos R, Le KQ, Li B, Marshall AJ, Meijaard E, Mittermeier RA, Muroyama Y, Neugebauer E, Orth L, Palacios E, Papworth SK, Plumptre AJ, Rawson BM, Refisch J, Ratsimbazafy J, Roos C, Setchell JM, Smith RK, Sop T, Schwitzer C, Slater K, Strum SC, Sutherland WJ, Talebi M, Wallis J, Wich S, Williamson EA, Wittig RM, and Kühl HS. 2020. A severe lack of evidence limits effective conservation of the world's primates. *BioScience* 70:794-803. Doi.org/10.1093/biosci/biaa082
 18. Ramananjato V, Rakotomalala Z, Park DS, DeSisto CMM, Raoelinjanakolona NN, Guthrie NK, Fenosoa ZOES, **Johnson SE**, and Razafindratsima OH. 2020. The role of nocturnal omnivorous lemurs as seed dispersers in Malagasy rainforests. *Biotropica* 52:758-765. Doi.org/10.1111/btp.12789
 19. Morelli TL, Smith AB, Mancini AN, Balko EA, Borgerson C, Dolch R, Farris Z, Sarah Federman S, Golden CD, Holmes SM, Irwin MT, Jacobs RL, **Johnson SE**, King T, Lehman SM, Louis Jr. EE, Murphy A, Randriahaingo HNT, Randrianarimanana HLL, Ratsimbazafy J, Razafindratsima OH, and Baden AL. 2020. The fate of Madagascar's rainforest habitat. *Nature Climate Change* 10:89-96. Doi.org/10.1038/s41558-019-0647-x
 20. Baden AL, Mancini AN, Federman S, Holmes SM, **Johnson SE**, Kamilar J, Louis Jr. EE, and Bradley BJ. 2019. Anthropogenic pressures drive population genetic structuring across a Critically Endangered lemur species range. *Scientific Reports* 9:16276. Doi.org/10.1038/s41598-019-52689-2

21. Holmes SM, Louis Jr. EE, and **Johnson SE**. 2019. Range overlap and spatiotemporal relationships of frugivorous lemurs at Kianjavato, Madagascar. *Animal Behaviour* 155:53-65. [Doi.org/10.1016/j.anbehav.2019.06.025](https://doi.org/10.1016/j.anbehav.2019.06.025)
22. Borgerson C, **Johnson SE**, Louis Jr. EE, Holmes SM, Anjaranirina EJJ, Randriamady HJ, and Golden CD. 2018. The use of natural resources to improve household income, health, and nutrition within the forests of Kianjavato, Madagascar. *Madagascar Conservation and Development* 13:45-52. [Dx.doi.org/10.4314/mcd.v13i1.6](https://dx.doi.org/10.4314/mcd.v13i1.6)
23. Herrera JP, Borgerson C, Tongaso L, Andriamahazoarivosoa P, Rasolofoniaina BJR, Rakotondrafarasata ER, Randrianasolo JLRR, **Johnson SE**, Wright PC, and Golden CD. 2018. Estimating the population size of lemurs based on their mutualistic food trees. *Journal of Biogeography* 45:2546-2563. [Doi.org/10.1111/jbi.13409](https://doi.org/10.1111/jbi.13409)
24. Aylward ML, Sullivan AP, Perry GH, **Johnson SE**, and Louis Jr. EE. 2018. An environmental DNA (eDNA) sampling method for aye-ayes from their feeding traces. *Ecology and Evolution* 8:9229-9240. [Doi.org/10.1002/ece3.4341](https://doi.org/10.1002/ece3.4341)
25. Estrada A, Garber PA, Mittermeier RA, Wich S, Gouveia S, Dobrovilski R, A. NK, Nijman V, Rylands AB, Maisels F, Williamson EA, Bicca-Marques JC, Fuentes A, Jerusalinsky L, **Johnson SE**, Rodrigues de Melo F, Oliveira L, Schwitzer C, Roos C, Cheyne SM, Martins Kierulff MC, Raharivololona B, Talebi M, Ratsimbazafy J, Supriatna J, Boonratana R, Wedana M, and Setiawan A. 2018. Primates in peril: The significance of Brazil, Madagascar, Indonesia and the Democratic Republic of the Congo for global primate conservation. *PeerJ* 6:e4869. [Doi.org/10.7717/peerj.4869](https://doi.org/10.7717/peerj.4869)
26. Razafindratsima OH, Brown KA, Carvalho F, **Johnson SE**, Wright PC, and Dunham AE. 2018. Edge effects on components of diversity and above-ground biomass in a tropical rainforest. *Journal of Applied Ecology* 55:977-985. [Doi.org/10.1111/1365-2664.12985](https://doi.org/10.1111/1365-2664.12985)
27. Lei R, Frasier CL, Hawkins MTR, Engberg SE, Bailey CA, **Johnson SE**, McLain AT, Groves CP, Perry GH, Nash SD, Mittermeier RA, and Louis Jr. EE. 2017. Phylogenomic reconstruction of sportive lemurs (genus *Lepilemur*) recovered from mitogenomes with inferences for Madagascar biogeography. *Journal of Heredity* 108:107-119. [Doi.org/10.1093/jhered/esw072](https://doi.org/10.1093/jhered/esw072)
28. Brown KA, Farris ZJ, Yesuf G, Rasambainarivo F, Karpanty S, Kelly M, Razafimahaimodison JC, Larney E, Wright PC, and **Johnson SE**. 2016. Modeling co-occurrence between toxic prey and naïve predators in an incipient invasion. *Biodiversity and Conservation* 25:2723–2741. [Doi.org/10.1007/s10531-016-1198-3](https://doi.org/10.1007/s10531-016-1198-3)
29. Holmes SM, Gordon AD, Louis Jr. EE, and **Johnson SE**. 2016. Fission-fusion dynamics in black-and-white ruffed lemurs may facilitate both feeding strategies and communal care of infants in a spatially and temporally variable environment. *Behavioral Ecology and Sociobiology* 70:1949-1960. [Doi.org/10.1007/s00265-016-2201-4](https://doi.org/10.1007/s00265-016-2201-4)
30. Valenta K, Edwards M, Rafaliarison RR, **Johnson SE**, Holmes SM, Brown KA, Dominy NJ, Lehman SM, Parra EJ, and Melin AD. 2016. Visual ecology of *Eulemur* suggests a cathemeral origin for the primate cone opsin polymorphism. *Functional Ecology* 30:932-942. [Doi.org/10.1111/1365-2435.12575](https://doi.org/10.1111/1365-2435.12575)
31. **Johnson SE***, Delmore KE*, Brown KA, Wyman TM, and Louis Jr. EE. 2016. Niche divergence in a brown lemur (*Eulemur* spp.) hybrid zone: Using ecological niche models to test models of stability. *International Journal of Primatology* 37:69-88. [Doi.org/10.1007/s10764-015-9872-y](https://doi.org/10.1007/s10764-015-9872-y). *Contributed equally
32. Gordon AD, **Johnson SE**, and Louis Jr. EE. 2016. Environmental correlates of body mass in true lemurs (*Eulemur* spp.). *International Journal of Primatology* 37:89-108. [Doi.org/10.1007/s10764-015-9874-9](https://doi.org/10.1007/s10764-015-9874-9)
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8. **Johnson SE**, Ratsimbazafy J, Stevens N, Andriamaharoa H, Martin S, and Ralainasolo F. 2009. Gray-headed lemur *Eulemur cinereiceps* (Milne-Edwards and Grandidier, 1880). In: Mittermeier RA, Wallis J, Rylands AB, Ganzhorn JU, Oates JF, Williamson EA, Palacios E, Heymann EW, Kierulff MCM, Yongcheng L, Supriatna J, Roos C, Walker S, Cortés-Ortiz L, Schwitzer C, editors. Primates in Peril: The World's 25 Most Endangered Primates 2008–2010. Arlington, VA: IUCN/SSC Primate Specialist Group (PSG), International Primatological Society (IPS), and Conservation International (CI). p 15-17.
9. Ganzhorn JU, and **Johnson SE**. 2007. Greater bamboo lemur *Prolemur simus* (Gray, 1871). In: Mittermeier RA, Ratsimbazafy J, Rylands AB, Williamson L, Oates JF, Mbora D, Ganzhorn JU, Rodríguez-Luna E, Palacios E, Heymann EW, Kierulff MCM, Yongcheng L, Supriatna J, Roos C, Walker S, and Aguiar JM, editors. Primates in peril: The world's 25 most endangered primates, 2006–2008. p 4. *Primate Conservation* 22:1-40.
10. **Johnson SE**, and WR Konstant. 2007. White-collared lemur *Eulemur albocollaris* (Rumpler, 1975). In: Mittermeier RA, Ratsimbazafy J, Rylands AB, Williamson L, Oates JF, Mbora D, Ganzhorn JU, Rodríguez-Luna E, Palacios E, Heymann EW, Kierulff MCM, Yongcheng L, Supriatna J, Roos C, Walker S, Aguiar JM, editors. Primates in peril: The world's 25 most endangered primates, 2006–2008. p 4-6. *Primate Conservation* 22:1-40.
11. Konstant WR, and **Johnson SE**. 2006. White-collared lemur *Eulemur albocollaris* (Rumpler, 1975). In:

- Mittermeier RA, Valladares-Pádua C, Rylands AB, Eudey AA, Butynski TM, Ganzhorn JU, Kormos R, Aguiar JM, Walker S, editors. Primates in peril: The world's 25 most endangered primates, 2004–2006. p 3-4. *Primate Conservation* 20:1-28.
12. Konstant WR, Ganzhorn JU, and **Johnson SE**. 2006. Greater bamboo lemur *Prolemur simus* (Gray, 1871). In: Mittermeier RA, Valladares-Pádua C, Rylands AB, Eudey AA, Butynski TM, Ganzhorn JU, Kormos R, Aguiar JM, Walker S, editors. Primates in peril: The world's 25 most endangered primates, 2004–2006. p 3. *Primate Conservation* 20:1-28.
13. **Johnson SE**, and Wyner YM. 2000. Notes on the biogeography of *E. f. albocollaris*. *Lemur News* 5:25-28.
14. Avallone M, and **Johnson SE**. 1992. "Paternalistic" behavior in a langur colony. *Laboratory Primate Newsletter* 31:18.

INVITED LECTURES

- Mar 2016 **Department of Philosophy, University of Calgary**
Lemur Population Dynamics: From Origins to Extinction
Guest lecture for PHIL 667.12. Topics in Philosophy of Science (Issues in Historical Science)
- Feb 2016 **Department of Anthropology and Archaeology, University of Calgary**
Lemur Extinctions
Guest lecture for ANTH 505.10. Conference Course in Primatology (Primate Evolution)
- Nov 2014 **Department of Anthropology, University of Toronto**
Lemurs in Space and Time: Environmental Influences on Populations, from Speciation to Potential Extinction
- Nov 2012 **Department of Anthropology, Rutgers University**
The Lost Lemurs: Extinction in Madagascar.
- Jan 2006 **Division of Ecology, University of Calgary**
Project MODEF: An Interdisciplinary Approach to the Dynamics of Deforestation in Ranomafana National Park, Madagascar.
- Jan 2005 **Department of Anthropology, University of Calgary**
Lemur Ecology and Population Dynamics in Southeastern Madagascar.
- Nov 2004 **Departments of Anthropology and Archaeology Colloquium Series, University of Calgary**
Project MODEF: An Interdisciplinary Approach to the Dynamics of Deforestation in Ranomafana National Park, Madagascar.
- Jul 2004 **Department of Anthropology, University of Calgary**
Ecology and Speciation in Brown Lemurs in Southeastern Madagascar.
- Jun 2004 **Centre International de Formation pour la Valorisation de la Biodiversité**
Project MODEF: Modeling Deforestation at Ranomafana.
- Feb 2004 **Department of Anthropology, Stony Brook University**
Modeling Deforestation at Ranomafana.
- Apr 2003 **Department of Anthropology, Stony Brook University**
Ecology and Speciation in Brown Lemurs: White-collared Lemurs (*Eulemur albocollaris*) and Hybrids (*Eulemur albocollaris* X *Eulemur fulvus rufus*) in Southeastern Madagascar.
- Mar 2002 **Department of Anthropology, Sonoma State University**
Ecology and Speciation in the Brown Lemurs of Southeastern Madagascar

UNIVERSITY SERVICE

2022-2023	Associate Deans International Committee, University of Calgary
2022-2023	Long Range Development Plan Committee, Spy Hill Campus, University of Calgary
2018-2023	Associate Deans Research Council, University of Calgary
2018-2023	Chair , Research and Scholarship Committee, Faculty of Arts
2018-2023	Integrated Arts Media Lab Committee, Faculty of Arts
2018-2023	Program for Undergraduate Research Faculty Coordinators Committee, University of Calgary
2018-2023	Dean's Advisory Council, Faculty of Arts
2018-2020	Chair , Ethics Committee, Faculty of Arts
2015-2018	Graduate Program Committee, Department of Anthropology and Archaeology
2015-2018	Graduate Scholarship Committee, Faculty of Graduate Studies
2014-2016	Coordinator , Internal Grant Review Committee, Department of Anthropology and Archaeology
2014-2015	Undergraduate Program Committee, Department of Anthropology and Archaeology
2010-2014	Curriculum and Academic Review Committee, Faculty of Arts
2009-2014	Curriculum Committee, Department of Anthropology
2011	Acting Director , Multidisciplinary Graduate Program in Biological Anthropology
2010-2011	Steering Committee, Interdisciplinary Wildlife Ecology Network
2009-2010	Executive Council, Faculty of Arts
2009-2010	Academic Performance and Review Committee, Faculty of Social Sciences
2005-2010	Ethics Review Panel, Faculty of Social Sciences
2006-2008	Experiential Learning Centre Committee, Faculty of Social Sciences
2007	Acting Director , Multidisciplinary Graduate Program in Biological Anthropology
2005	Graduate Studies Committee, Department of Anthropology

EXTERNAL PROFESSIONAL SERVICE

2024-Present	Technical Advisory Committee, IUCN Save Our Species Lemurs Phase II
2024-Present	Review Panel, IUCN Save Our Species Lemurs Phase II
2024-Present	Board of Directors, PREVNet (Promoting Relationships and Eliminating Violence)
2016-Present	Vice-Chair , IUCN SSC Primate Specialist Group Madagascar
2010-Present	Board of Advisors, Centre ValBio
2016-Present	Scientific Advisory Committee, Lemur Conservation Foundation
2015-2022	Technical Advisory Group, IUCN Save Our Species Lemurs Phase I
2014-2017	Project Advisor , Lemur Conservation Network
2012-2016	Deputy Vice-Chair , IUCN SSC Primate Specialist Group Madagascar
2005-Present	IUCN SSC Primate Specialist Group Madagascar
2007-2012	Adjunct Assistant Professor , Department of Anthropology, University of Victoria
2017-Present	Editor , Lemur News, journal of the IUCN SSC Primate Specialist Group Madagascar
2016	Guest Co-Editor , International Journal of Primatology
2005-Present	Reviewer , American Journal of Biological Anthropology, American Journal of Primatology, Animal Conservation, Behavioral Ecology and Sociobiology, Biotropica, BMC Evolutionary Biology, Cambridge University Press, Ecological and Environmental Anthropology, Endangered Species Research, Frontiers in Zoology, International Journal of Primatology, Landscape Ecology, Madagascar Conservation and Development, Mammalia, Molecular Ecology, Primate Conservation
2003-Present	Grant reviewer , L.S.B. Leakey Foundation, National Geographic Society, NSF, NSERC, Primate Conservation Inc.
2007-2008	Conservation Committee, International Primatological Society

2003-2004 **Adjunct Assistant Professor**, Department of Anthropology, Stony Brook University

GRADUATE STUDENT SUPERVISION (CURRENT AND GRADUATED)

PhD

- Dorji, Kuenzang** Thesis topic: Conserving the Endangered golden langur (*Trachypithecus geei*) while balancing people-langur needs in Bhutan. Sep 2022-Present.
- Ramangason, Hasinala** Thesis topic: How plant communities drive the genetic structure and assemblage of lemurs. Sep 2019-Present.
- Narváez-Torres, Pamela** Thesis topic: Assessing lemur functional diversity in disturbed forests and reforested areas in southeastern Madagascar. Sep 2018-Present.
- Guthrie, Nicola** Thesis topic: What predicts the distribution and abundance of the Endangered Jolly's mouse lemur, in a newly restored forest in south-eastern Madagascar? Sep 2015-Present.
- Aylward, Megan** Thesis: Investigating dispersal through molecular genomics: Sex-biased dispersal and phylogeography in aye-ayes (*Daubentonia madagascariensis*) in Madagascar. Graduated Sep 2017.
- Holmes, Sheila** Thesis: Sharing space: Habitat use and spatial relationships of frugivorous lemurs in fragmented forests. Graduated Sep 2017.

Master of Arts

- Jacobson, Zachary** Thesis: Spatial relationships and occurrence patterns within a community of lemurs in a fragmented landscape. Graduated Sep 2022.
- Peterson, Melody** Thesis topic: Behavioural responses to habitat fragmentation in the frugivorous black-and-white ruffed lemur (*Varecia variegata*): Implications for the conservation of a Critically Endangered species. Graduated Aug 2022.
- Chen, Li-Dunn** Thesis: Predictors of agonism and affiliation in black-and-white ruffed lemurs (*Varecia variegata*). Graduated Aug 2020.
- Chen, Devin** Thesis: Lemur paparazzi: Investigating the use of arboreal camera traps to monitor lemurs in the Kianjavato region of southeastern Madagascar. Graduated May 2020.
- Narváez-Torres, Pamela** Thesis: Effects of disturbance and forest structure on the functional diversity and abundance of lemur communities in a fragmented landscape. Graduated Sep 2018.
- Houston, Brianna** Thesis: Functional diversity and abundances of the lemur community at Ranomafana National Park, Madagascar. Graduated Sep 2017.
- Holmes, Sheila** Thesis: Habitat use and population genetics of *Varecia variegata editorum* in a fragmented landscape. Graduated Jan 2012.
- Ingraldi, Christina** Thesis: Forest fragmentation and edge effects on eight sympatric lemur species in southeast Madagascar. Graduated Jun 2010.
- Delmore, Kira** Thesis: Maintenance of stability in the Andringitra brown lemur hybrid zone. Graduated Sep 2009.
- Rued, Annemarie** Thesis: Social structure and female foraging strategies in white-collared lemurs (*Eulemur cinereiceps*). Graduated Sep 2009.

Malagasy Graduate Student Co-Supervision (2014-Present)

As part of research agreements with the Government of Madagascar, I co-supervise students during their fieldwork. Students develop and implement projects within my research program, and my graduate students from the University of Calgary and I provide funding, training, and mentorship.

Solofoniaina, Theudy Alexis	Université d'Antananarivo, PhD, 2022-2023.
Mihajatiana, Tanjona	Université d'Antananarivo, PhD, 2022-2023.
Ravoniarinalisoa, V. Patricia	Université de Mahajanga, Master's equivalent, 2019.
Tiafinjaka, Olivia	Université de Mahajanga, Master's equivalent, 2019-2020.
Ramananjato, Veronarindra	Université d'Antananarivo, Master's equivalent, 2018-2019.
Rahasivelo, Elinah	Université d'Antananarivo, Master's equivalent, 2016-2018.
Rasolofomalala, Ravaka D.	Université d'Antananarivo, Master's equivalent, 2016.
Andrianantenaina, Harisoa M.	Université d'Antananarivo, Master's equivalent, 2015.
Rafidimanana, Daniel	Université d'Antananarivo, Master's equivalent, 2014.
Andriamisedra, Rotsi	Université d'Antananarivo, Master's equivalent, 2014.

COURSES TAUGHT

Anthropology 201. Introduction to Primatology and Human Evolution
Anthropology 311. Primate Behaviour
Anthropology 351/413. Method in Primatology
Anthropology 451. Topics in Primate Behavioural Ecology and Conservation
Anthropology 571. Honours Seminar in Primatology/Biological Anthropology
Anthropology 613. Current Issues in Methodology in Primatology/Biological Anthropology (graduate)