ANDREW J. MARSHALL

Department of Anthropology, Department of Ecology and Evolutionary Biology, Program in the Environment, Program in Computing for the Arts and Sciences, and School of Environment and Sustainability University of Michigan

1085 S. University Ave, Ann Arbor, Michigan 48109 USA Phone: +1-734-763-4735, ajmarsha@umich.edu http://sites.lsa.umich.edu/ajmarsha/

EDUCATION

2004	Ph.D. Anthropology, Harvard University. Dissertation entitled <i>Population ecology of gibbons and leaf monkeys across a gradient of Bornean forest habitats</i>
2000	M.A. Anthropology, Harvard University
1996	B.A. Anthropology, summa cum laude, Harvard University

INTERESTS

ecology and conservation of vertebrates and tropical forests; community ecology; interspecific competition; plant-animal interactions; statistical modeling; data visualization; biological anthropology

PROFESSIONAL POSITIONS

2023 –	Associate Chair, Department of Anthropology
2023 –	Professor, Program in Computing for the Arts and Sciences
2017 –	Professor, Departments of Anthropology and Ecology and Evolutionary Biology, Program in the Environment, School for Environment and Sustainability University of Michigan
2013 –	Member of Small Apes Section of IUCN Primate Specialist Group
2004 –	Member of Great Apes Section of IUCN Primate Specialist Group
2020 –	Scientific Advisor, Gunung Palung National Park, West Kalimantan, Indonesia
2019 – 2022	Honorary Research Associate, School of Biological Sciences, Victoria University of Wellington, New Zealand
2000 – 2020	Director, One Forest Project, Gunung Palung National Park
2007 – 2020	Co-director, Cabang Panti Research Station, Gunung Palung National Park
2014 – 2017	Associate Professor, Department of Anthropology, School of Natural Resources and Environment and Program in the Environment, University of Michigan
2012 – 2014	Chair, Conservation Ecology, Graduate Group in Ecology, UC Davis
2011 – 2014	Associate Professor, Department of Anthropology; Faculty member, Animal Behavior Graduate Group and John Muir Institute of the Environment, UC Davis
2007 – 2014	Faculty member, Graduate Group in Ecology, UC Davis
2006 – 2011	Assistant Professor, Department of Anthropology, UC Davis

2004 – 2006 Mercer Postdoctoral Fellow, Arnold Arboretum of Harvard University

SELECT PUBLICATIONS

Google Scholar Citations: 7784. H-index: 46, i10-index: 89 (updated 2024-05-28)

Journal articles (since 2020, * denotes current or past student co-author)

- Estrada, GR* and AJ Marshall. 2024. Terrestriality across the primate order: A review and analysis of ground use in primates. *Evolutionary Anthropology*. https://doi.org/10.1002/evan.22032
- Mitani JC, E Abwe, G Campbell, T Giles-Vernick, T Goldberg, MR McLennan, S Preuschoft, J Supriatna, AJ Marshall. 2024. Future coexistence with great apes will require major changes to policy and practice. *Nature Human Behavior* https://doi.org/10.1038/s41562-024-01830-x
- Burton C & 221 co-authors, including **AJ Marshall**. 2024. Mammal responses to global changes in human activity vary by trophic group and landscape. *Nature Ecology and Evolution* https://doi.org/10.1038/s41559-024-02363-2
- Meijaard E, D Sheil, J Sherman, L Chua, S Ni'matullah, K Wilson, M Ancrenaz, D Liswanto, SA Wich, B Goossens, HS Kühl, M Voigt, Y Rayadin, Y Kurniawan, A Trianto*, D Priatna, GL Banes, E Massingham, J Payne, **AJ Marshall**. 2023. Restoring the orangutan in a Whole- or Half-Earth context. *Oryx* 57: 566-577.
- Preuschoft S, Marshall AJ, Scott L, Badriyah SN, Purba MDT, Yuliani E, Corbi P, Yassir I, Wibawanto MA & Kalcher-Sommersguter E. 2023. The development of feeding competence in rehabilitant orphaned orangutans and how to measure it. *Animals*. 13: 2111.
- Spencer KL, NJ Deere, M Aini, R Avriandy, G Campbell-Smith, SM Cheyne, DL Gaveau, T Humle, J Hutabarat, B Loken, DW Macdonald, AJ Marshall, C Morgans, Y Rayadin, KL Sanchez, S Spehar, Suanto, J Sugarjito, HU Wittmer, J Supriatna, MJ Struebig. 2023. Implications of large-scale infrastructure development for biodiversity in Indonesian Borneo. *Science of the Total Environment*. 866:161075.
- Setiawan E*, D Darneadi, ,T Mitra Setia, CD Knott, CO Webb & **AJ Marshall.** 2022. Sebaran dan Kelimpahan Jenis Invasif *Bellucia pentamera* Naudin di Taman Nasional Gunung Palung, Kalimantan Barat (Distribution and Abundance of Invasive Species *Bellucia pentamera* Naudin in Gunung Palung National Park, West Kalimantan). *Jurnal Penelitian Hutan dan Konservasi Alam.* 19: 249–263.
- Nelaballi S*, BJ Finkel*, AB Bernard*, GR Estrada*, E Setiawan*, T Mitra Setia, TW Susanto, R Rhanda, Surya, Jakaria, D Andika, SR Lemoine, SM Jaffe, EJ Barrow, Ž Justinek, HU Wittmer & AJ Marshall. 2022. Impacts of abiotic and biotic factors on terrestrial leeches in Indonesian Borneo. *Biotropica* 54: 1238–1247.
- Lucore JM*, **AJ Marshall**, SF Brosnan & ME Benítez. 2022. Validating urinary neopterin as a biomarker of immune response in captive and wild capuchin monkeys. *Frontiers in Veterinary Science*. 9: 918036.
- Santika T & 49 co-authors, including **AJ Marshall**. 2022. Effectiveness of 20 years of conservation investments in protecting orangutans. *Current Biology*. 32: 1–10.
- Marshall AJ, E Meijaard & M Leighton. 2021. Extreme ecological specialization in a rainforest mammal, the Bornean tufted ground squirrel, *Rheithrosciurus macrotis. Raffles Bulletin of Zoology*. 69: 497–506.

- Cannon CH & 35 co-authors, including AJ Marshall. 2021. Extending our scientific reach in arboreal ecosystems for research and management. Frontiers in Forests and Global Change 4: 712165.
- Marshall AJ, MT Farr, L Beaudrot*, EF Zipkin, KL Feilen*, LG Bell, E Setiawan*, TW Susanto, T Mitra Setia, M Leighton & HU Wittmer. 2021. Biotic and abiotic drivers of dispersion dynamics in a large-bodied tropical vertebrate, the Western Bornean orangutan. *Oecologia*. 196: 707–721.
- Knott CD & 44 co-authors, including **AJ Marshall**. 2021. The Gunung Palung orangutan project: Twenty-five years at the intersection of research and conservation in a critical landscape in Indonesia. *Biological Conservation* 255: 108856.
- Bernard AB* & AJ Marshall. 2020. Assessing the state of knowledge of contemporary climate change and primates. *Evolutionary Anthropology* 29: 317–331.
- Junker J & 58 co-authors, including **AJ Marshall**. 2020. Severe lack of evidence limits effective conservation of the world's primates *Bioscience* 9: 794-803.
- Feilen KL* & **AJ Marshall**. 2020. Responses to spatial and temporal variation in food fvailability on the feeding ecology of proboscis monkeys (*Nasalis larvatus*) in West Kalimantan, Indonesia. *Folia Primatologia* 91: 399–416.
- Beaudrot L* & **AJ Marshall**. 2019. Environmental predictors of primate community structure differ among biogeographic regions. *Journal of Tropical Ecology* 35: 83–90.
- Runting RK & 21 co-authors, including **AJ Marshall**. 2019. Larger gains delivered by improved management over sparing-sharing for tropical forests. *Nature Sustainability*. 2:53–91.
- Lau AR*, DJ Clink*, MC Crofoot & AJ Marshall. 2018. Evidence for high variability in temporal features of the male coda in Müller's Bornean gibbons (*Hylobates muelleri*). *International Journal of Primatology* 39: 6760–684.
- Clink DJ*, MN Grote, MC Crofoot & **AJ Marshall**. 2018. Understanding sources of variance and correlation among features of Bornean gibbon (*Hylobates muelleri*) female calls. *Journal of the Acoustical Society of America* 144: 698–708.
- Clink DJ*, RA Charif, MC Crofoot & **AJ Marshall**. 2018. Evidence for vocal performance constraints in a female nonhuman primate. *Animal Behaviour* 141: 85–94.
- Spehar SN, D Shiel, T Harrison, J Louys, M Ancrenaz, **AJ Marshall**, SA Wich, MW Bruford & E Meijaard. 2018. Orangutans venture out of the rainforest and into the Anthropocene. *Science Advances*. 4: e1701422.
- Clink DJ*, MC Crofoot & AJ Marshall. 2018. Application of a semi-automated vocal fingerprinting approach to monitor Bornean gibbon females in an experimentally fragmented landscape in Sabah, Malaysia. *Bioacoustics*. https://doi.org/10.1080/09524622.2018.1426042.v
- Dillis C*, **AJ Marshall**, CO Webb & MN Grote. 2018. Prolific fruit output by the invasive tree *Bellucia* pentamera Naudin (Melastomataceae) is enhanced by selective logging disturbance. *Biotropica*. 50: 598-605.
- Voigt M & 49 co-authors, including **AJ Marshall**. 2018. Global demand for natural resources eliminated more than 100,000 Bornean orangutans. *Current Biology*. 28: 761-769.
- Fischer JH, SEI Jones, JF Brodie, AJ Marshall, E Setiawan*, A Wain, TBT Van Berkel, OR Wearn, A Van Der Kaaden, A Granados, J Mathai, SM Cheyne & MJH Denny. 2017. The potential value of camera-trap studies for the identification, ageing, sexing and phenology of Bornean *Lophura* pheasants. *Forktail*. 33: 92–102.

- Clink DJ*, H Bernard, MC Crofoot & AJ Marshall. 2017. Investigating individual vocal signatures and small-scale patterns of geographic variation in female Bornean gibbon (*Hylobates muelleri*) great calls. *International Journal of Primatology*. 38: 656–671.
- Santika T & 47 co-authors, including **AJ Marshall**. 2017. First integrative trend analysis for a great ape species in Borneo. *Scientific Reports*. 7:4839. DOI:10.1038/s41598-017-04435-9.
- Feilen KL* & AJ Marshall. 2017. Multiple ecological factors influence the location of proboscis monkey (*Nasalis larvatus*) sleeping sites in West Kalimantan, Indonesia. *International Journal of Primatology*. 38: 448–465.
- Dillis C*, **AJ Marshall** & M Rejmánek. 2017. Change in disturbance regime facilitates invasion by *Bellucia pentamera* Naudin (Melastomataceae) at Gunung Palung National Park, Indonesia. *Biological Invasions*. 19: 1329–1337.
- Clink DJ*, C Dillis*, KL Feilen*, L Beaudrot*, and **AJ Marshall**. 2017. Dietary diversity, feeding selectivity, and responses to fruit scarcity of two sympatric Bornean primates (*Hylobates albibarbis* and *Presbytis rubicunda rubida*). *PLoS ONE* 12(3): e0173369. doi:10.1371/journal.pone.0173369
- Fischer JH, HU Wittmer, E Setiawan*, S Jaffe & **AJ Marshall.** 2017. Incipient loss of a rainforest mutualism? *Journal of Threatened Taxa*. 9: 9734–9737.
- Allen ML, HU Wittmer, E Setiawan*, S Jaffe & AJ Marshall. 2016. Scent marking in Sunda clouded leopards (*Neofelis diardi*): novel observations close a key gap in understanding felid communication behaviours. *Scientific Reports*. 6: 35433. doi: 10.1038/srep35433
- Marshall AJ, SA Wich & M Ancrenaz. 2016. Fresh strategies to save orangutans. *Nature*. 535: 493. (Commentary)
- Meijaard E & 17 co-authors, including **AJ Marshall**. 2016. Predicted distribution of the Malay Weasel *Mustela nudipes* (Mammalia: Carnivora: Mustelidae) on Borneo. *Raffles Bulletin of Zoology*. 33: 50–54.
- Duckworth JW & 21 co-authors, including **AJ Marshall**. 2016. Predicted distribution of banded linsang *Prionodon linsang* (Mammalia: Carnivora: Prionodontidae) on Borneo. *Raffles Bulletin of Zoology*. 33: 71–77.
- Ross J & 22 co-authors, including **AJ Marshall**. 2016. Predicted distribution of the Malay civet *Viverra tangalunga* (Mammalia: Carnivora: Viverridae) on Borneo. *Raffles Bulletin of Zoology*. 33: 78–83.
- Nakabayashi M & 29 co-authors, including **AJ Marshall**. 2016. Predicted distribution of common palm civet *Paradoxurus hermaphroditus* (Mammalia: Carnivora: Viverridae) on Borneo. *Raffles Bulletin of Zoology*. 33: 84–88.
- Semiadi G & 20 co-authors, including **AJ Marshall**. 2016. Predicted distribution of the masked palm civet *Paguma larvata* (Mammalia: Carnivora: Viverridae) on Borneo. *Raffles Bulletin of Zoology*. 33: 89–95.
- Semiadi G & 22 co-authors, including **AJ Marshall**. 2016. Predicted distribution of the binturong Arctictis buinturong (Mammalia: Carnivora: Viverridae) on Borneo. Raffles Bulletin of Zoology. 33: 96–102.
- Duckworth JW & 20 co-authors, including **AJ Marshall**. 2016. Predicted distribution of small-toothed palm civet *Arctogalidia trivirgata* (Mammalia: Carnivora: Viverridae) on Borneo. *Raffles Bulletin of Zoology*. 33: 103–110.

- Ross J & 22 co-authors, including **AJ Marshall**. 2016. Predicted distribution of the banded civet *Hemigalus derbyanus* (Mammalia: Carnivora: Viverridae) on Borneo. *Raffles Bulletin of Zoology*. 33: 111–117.
- Cheyne SM & 16 co-authors, including **AJ Marshall**. 2016. Predicted distribution of the otter civet *Cynogale Bennettii* (Mammalia: Carnivora: Viverridae) on Borneo. *Raffles Bulletin of Zoology*. 33: 126–131.
- Hon J & 18 co-authors, including **AJ Marshall**. 2016. Predicted distribution of the collard mongoose *Herpests semitorquatus* (Mammalia: Carnivora: Herpestidae) on Borneo. *Raffles Bulletin of Zoology*. 33: 142–148.
- Hearn A & 24 co-authors, including **AJ Marshall**. 2016. Predicted distribution of the Sunda clouded leopard *Neofelis diardi* (Mammalia: Carnivora: Felidae) on Borneo. *Raffles Bulletin of Zoology*. 33: 149–156.
- Rustam & 24 co-authors, including **AJ Marshall**. 2016. Predicted distribution of the marbled cat *Pardofelis marmorata* (Mammalia: Carnivora: Felidae) on Borneo. *Raffles Bulletin of Zoology*. 33: 157–164.
- Wilting A & 20 co-authors, including **AJ Marshall**. 2016. Predicted distribution of the flat-headed cat *Prionailurus planiceps* (Mammalia: Carnivora: Felidae) on Borneo. *Raffles Bulletin of Zoology*. 33: 173–179.
- Mohamed A & 29 co-authors, including **AJ Marshall**. 2016. Predicted distribution of the leopard cat *Prionailurus bengalensis* (Mammalia: Carnivora: Felidae) on Borneo. *Raffles Bulletin of Zoology*. 33: 180-185.
- Mathai J, JW Duckworth, E Meijaard, G Fredriksson, J Hon, A Sebasitan, M Ancrenaz, AJ Hearn, J Ross, SM Cheyne, The Borneo Carnivore Consortium (large group including **AJ Marshall**), and A Wilting. 2016. Carnivore conservation planning on Borneo: identifying key carnivore landscapes, research priorities and conservation interventions. *Raffles Bulletin of Zoology*. 33: 186–217.
- Marshall AJ, E Meijaard, E Van Cleave* & D Sheil. 2016. Charisma counts: the presence of great apes affects the allocation of research effort in the paleotropics. *Frontiers in Ecology and the Environment*. 14: 13–19.
- Dillis C*, L Beaudrot*, DJ Clink*, KL Feilen*, HU Wittmer & **AJ Marshall**. 2015. Modeling the ecological and phenological predictors of fruit consumption by gibbons (*Hylobates albibarbis*). *Biotropica*. 47: 85–93.
- Struebig MJ, A Wilting, DLA Gaveau, E Meijaard, RJ Smith, The Borneo Mammal Distribution Consortium (large group including **AJ Marshall**), M Fisher, K Metcalfe & S Kramer-Schadt. 2015. Targeted conservation to safeguard a biodiversity hotspot from climate and land-cover change. *Current Biology*. 25: 372–378.
- Feilen KL* & AJ Marshall. 2014. Sleeping site selection by proboscis monkeys (*Nasalis larvatus*) in West Kalimantan, Indonesia. *American Journal of Primatology*. 76: 1127–1139.
- Marshall AJ, L Beaudrot* & HU Wittmer. 2014. Responses of primates and other frugivorous vertebrates to plant resource variability over space and time at Gunung Palung National Park. *International Journal of Primatology.* 35: 1178–1201.
- Beaudrot L*, J Kamilar, **AJ Marshall**, & KE Reed. 2014. African primate assemblages exhibit a latitudinal gradient in dispersal limitation. *International Journal of Primatology*. 35: 1088–1104.
- Caro T, A Dobson, **AJ Marshall** & CA Peres. 2014. Compromise solutions between conservation and road building in the tropics. *Current Biology*. 24: R722–725.

- Wittmer HU, LM Elbroch & AJ Marshall. 2014. Conservation of huemul in the future Patagonia National Park: A call for immediate management intervention. *IUCN Deer Specialist Group Newsletter*. 26: 6–13.
- Wittmer HU, M Hasenbank, LM Elbroch & AJ Marshall. 2014. Incorporating preferential prey selection and stochastic predation into population viability analysis for rare prey species. *Biological Conservation*. 172:8–14.
- Beaudrot L*, MJ Struebig, E Meijaard, S van Balen, S Husson & AJ Marshall. 2013. Co-occurrence patterns of Bornean vertebrates suggest competitive exclusion is strongest among distantly related species. *Oecologia*. 173: 1053–1062.
- Kramer-Schadt S & 27 co-authors, including **AJ Marshall**. 2013. The importance of correcting for sampling bias in MaxEnt distribution models. *Diversity and Distributions*. 19: 1366–1379.
- Beaudrot L*, M Rejmánek & AJ Marshall. 2013. Dispersal modes affect tropical forest assembly across tropic levels. *Ecography*. 36: 984–993. Highlighted as an "Editor's Choice" article on the *Ecography* website.
- Wittmer HU, LM Elbroch & **AJ Marshall**. 2013. Good intentions gone wrong: did conservation management threaten endangered huemul deer in the future Patagonia National Park? *Oryx*. 47: 393–402.
- Wittmer HU, R Serrouya, LM Elbroch & AJ Marshall. 2013. Conservation strategies for species affected by apparent competition. *Conservation Biology* 27: 254–260.
- Beaudrot L*, MJ Struebig, E Meijaard, S van Balen, S Husson, CF Young* & AJ Marshall. 2013. Interspecific interactions between primates, birds, bats and squirrels may affect community composition on Borneo. *American Journal of Primatology*. 75: 170–185.
- Wich SA & 35 co-authors, including **AJ Marshall.** 2012. Understanding the impacts of land-use policies on a threatened species: Is there a future for the Bornean orang-utan? *PLoS One*. 7(11): e49142. doi:10.1371/journal.pone.0049142.
- Meijaard E, SA Wich, M Ancrenaz & **AJ Marshall**. 2012. Not by science alone: why orangutan conservationists must think outside the box. *Annals of the New York Academy of Sciences*. 1249: 29–44.
- Kettle, C. & 25 co-authors, including **AJ Marshall**. 2011. Seeing the fruit for the trees in Borneo. *Conservation Letters*. 4: 184–191.
- Wich SA, ER Vogel, MD Larsen, G Fredriksson, M Leighton, CP Yeager, FQ Brearley, CP van Schaik & AJ Marshall. 2011. Forest fruit production is higher on Sumatra than Borneo. *PLoS One*. 6(6): e21278. doi:10.1371/journal.pone.0021278.
- Harrison ME & AJ Marshall. 2011. Strategies for the use of fallback foods in apes. *International Journal of Primatology*. 32: 531–565. (One of five "Top Cited Papers" in *International Journal of Primatology* 2011–2012.)
- Meijaard E, K Mengersen, D Buchori, A Nurcahyo, M Ancrenaz, SA Wich, SS Utami Atmoko, A Tjiu, D Prasetyo, Nardiyono, Hadiprakarsa, L Christy, J Wells, G Albar & **AJ Marshall**. 2011. Why don't we ask? A complementary method for assessing the status of great apes. *PLoS One*. 6(3): e18008. doi:10.1371/journal.pone.0018008.
- Beaudrot LH* & AJ Marshall. 2011. Primate communities are structured more by dispersal limitation than by niches. *Journal of Animal Ecology*. 80: 332–341. (Reprinted in a special edition of the *Journal of Animal Ecology* entitled "Animal Ecology legacy of Charles S Elton.")

- Paoli GD, PL Wells, E Meijaard, MJ Struebig, AJ Marshall, K Obidzinski, A Tan, A Rafiastanto, B Yaap, JWF. Slik, A Morel, B Perumal & N Wielaard. 2010. Biodiversity in the REDD. Carbon Balance and Management. 5:7 (1–9). (The most downloaded paper in Carbon Balance and Management in 2011, with more than 13,000 unique downloads).
- Spehar SN, PD Mathewson, Nuzuar, SA Wich, AJ Marshall, H Kühl, Nardiyono & E Meijaard. 2010. Estimating orangutan densities using the standing crop and marked nest count methods: lessons learned for conservation. *Biotropica*. 42: 748–757.
- Kettle CJ & 24 co-authors, including **AJ Marshall**. 2010. Mass fruiting in Borneo: a missed opportunity. *Science*. 330: 584.
- Meijaard E, A Welsh, M Ancrenaz, SA Wich, V Nijman & AJ Marshall. 2010. Declining orangutan encounter rates from Wallace to the present suggest the species was once more abundant. *PLoS One*. 5(8): e12042. doi:10.1371/journal.pone.0012042.
- Boyko RH* & **AJ Marshall**. 2010. Using simulation models to evaluate ape nest survey techniques. *PLoS One*. 5(5): e10754. doi:10.1371/journal.pone.0010754.
- Book Chapters (Peer reviewed) (since 2010)
 - Marshall AJ. in press. Food and primate carrying capacity. In Lambert JE, MAH Breyer, & J Rothman (eds). How Primates Eat: A Synthesis of Nutritional Ecology Across a Mammal Order. Chicago: University of Chicago Press.
 - Marshall AJ. 2018. Conservation science in the tropics: why so much ecological research is useless, and why we need more of it. *Primatology, Bio-cultural Diversity and Sustainable Development in Tropical Forests*, pp. 50–71. UNESCO, Mexico City, Mexico.
 - Marshall AJ 2017. Niche. In Fuentes, A (ed). *The International Encyclopedia of Primatology*. Hoboken: John Wiley & Sons, Inc.
 - Wich SA & AJ Marshall. 2016. An introduction to primate conservation. In Wich SA & AJ Marshall (eds). An Introduction to Primate Conservation. Oxford: Oxford University Press. Pp. 1–12.
 - **Marshall AJ** & SA Wich. 2016. Why conserve primates? In Wich SA & AJ Marshall (eds). *An Introduction to Primate Conservation*. Oxford: Oxford University Press. Pp. 13–29.
 - Gaveau D, SA Wich & AJ Marshall. 2016. Are protected areas conserving primate habitat in Indonesia? In Wich SA & AJ Marshall (eds). *An Introduction to Primate Conservation*. Oxford: Oxford University Press. Pp. 193–204.
 - Marshall AJ & SA Wich. 2016. Some future directions for primate conservation research. In Wich SA & AJ Marshall (eds). *An Introduction to Primate Conservation*. Oxford: Oxford University Press. Pp. 287–296.
 - Marshall AJ & SA Wich. 2013. Characterization of primate environments through assessment of plant phenology. In Sterling E, M Blair N Bynum. *Primate Ecology and Conservation: A Handbook of Techniques*. Oxford: Oxford University Press. Pp. 103–127.
 - Marshall AJ. 2010. Effects of habitat quality on primate populations in Kalimantan: gibbons and leaf monkeys as case studies. In Supriatna J & SL Gursky (Eds.) *Indonesian Primates*. New York: Springer. Pp. 157–177.

Edited Books

Wich SA & AJ Marshall. 2016. An Introduction to Primate Conservation. Oxford: Oxford University Press.

- Kartikasari SN, **AJ Marshall** & BM Beehler. 2012. *Ekologi Papua*. Jakarta, Yayasan Obor Indonesia. 981 pp.
- Marshall AJ & BM Beehler. 2007. *The Ecology of Papua*. Singapore: Periplus Editions. Two volumes, 1467 pp.

Select Scientific Reports

- Ancrenaz M, M Gumal, **AJ Marshall**, E Meijaard, SA Wich & S Husson. 2016. *Pongo pygmaeus*. The IUCN Red List of Threatened Species.
- Marshall AJ, V Nijman & S Cheyne 2015. *Hylobates albibarbis*. 2007 IUCN Red List of Threatened Species.
- Marshall AJ. 2008. Assessing the accuracy of structured village surveys as a means of sampling orangutan populations. The Nature Conservancy.
- Ancrenaz M, **AJ Marshall**, B Goossens, C P van Schaik, J Sugardjito, M Gumal & SA Wich. 2007. *Pongo pygmaeus*. 2007 IUCN Red List of Threatened Species.
- Marshall AJ, JH Jones & RW Wrangham. 1999. The Plight of the Apes: a global survey of great ape populations. Congressional briefing in support of Great Ape Conservation Act, H.R. 4320.

CONTRIBUTED TALKS AND ABSTRACTS (since 2010)

2023	Offspring sex ratios in two Bornean rainforest primate populations. Conference of the American Association of Biological Anthropologists, Reno, NV. American Journal of Physical Anthropology, 180, S75: 112.
2022	Restoring the red ape in a whole- or half-Earth context. Midwest Primate Interest Group Conference, Ann Arbor, MI.
2017	Identifying the ecological mechanisms promoting long-term co-existence in a mega-diverse assemblage of vertebrate frugivores at Gunung Palung National Park, West Kalimantan, Indonesia. Conference of the American Association of Physical Anthropologists, New Orleans, LA. American Journal of Physical Anthropology, S64: 276-277.
2015	Tropical research is biased towards national parks containing great apes. Conference of the American Association of Physical Anthropologists, St. Louis, MO. American Journal of Physical Anthropology, S60: 214.
2013	Feeding niche overlap and differentiation among sympatric vertebrate frugivores at Gunung Palung National Park, West Kalimantan, Indonesia. Conference of the American Association of Physical Anthropologists, Knoxville, TN. American Journal of Physical Anthropology, S56: 190.
2012	Ecological and social influences on habitat use by Bornean orangutans. Conference of the American Association of Physical Anthropologists, Portland, OR. American Journal of Physical Anthropology, S54: 204.
2010	Habitat selection by Bornean orangutans: Population dispersion in response to temporal changes in local food availability. Conference of the International

Primatological Society, Kyoto, Japan. International Primatological Society XXII

Congress Kyoto 2010 Abstracts 756: 381.

Dispersal limitation, ecological niche differentiation, and primate community structure in four tropical metacommunities. Conference of the Association of Tropical Biology and Conservation, Bali, Indonesia. ATBC Abstracts V-31-10: 101.
 Neutrality, niches, and the assembly of primate communities. Conference of the American Association of Physical Anthropologists, Albuquerque, NM. American

Journal of Physical Anthropology S50: 164-165.

INVITED TALKS (since 2010)

NVIIED IALI	KS (since 2010)
2023	Conservation science in the tropics: why most ecological research is useless, and why we need more of it. Meeting of MEEBS, Department of Ecology and Evolutionary Biology, University of Michigan, Ann Arbor, Michigan.
2023	Modern Statistics: Simple truths we often forget. National University, Jakarta, Indonesia.
2022	Pengenalan makanan orangutan dan ekologi dasarnya. Yayasan Jejak Pulang, Samboja, East Kalimantan, Indonesia. (In Indonesian).
2022	Pengenalan hutan hujan tropis and Interaksi antara tumbuhan dan vertebrat and Evolusi dan taksonomi tumbuhan dasar. Resot Belaban, Balai Taman Nasional Bukit Baka Bukit Raya, Sintang, West Kalimantan, Indonesia. (In Indonesian).
2022	Pengenalan hutan hujan tropis and Interaksi antara tumbuhan dan vertebrat. Balai Besar Taman Nasional Betung Kerihun dan Danau Sentarum, Putussibau, West Kalimantan, Indonesia. (In Indonesian).
2019	Ekologi komunitas vertebrat di Stasium Riset Cabang Panti: tiga contoh sederhana. Universitas Nasional, Jakarta, Indonesia. (In Indonesian).
2017	Conservation primatology in an era of rapid ecological change: perspectives from Borneo Primatology, Bio-cultural Diversity and Sustainable Development in Tropical Forests. UNESCO, Mexico City, Mexico.
2017	Conservation science in the tropics: why most ecological research is useless, and why we need more of it. School of Biological Sciences, Victoria University of Wellington, New Zealand.
2017	Conservation science in the tropics: why most ecological research is useless, and why we need more of it. New York Consortium of Evolutionary Primatology, New York, NY, USA.
2016	Penelitian primate dan ekologi hutan di Taman Nasional Gunung Palung. Faculty of Mathematics and Natural Sciences, Universitas Tangjungpura, Pontianak, West Kalimantan, Indonesia. (In Indonesian).
2016	Conservation science in the tropics: why most ecological research is useless, and why we need more of it. Ecology and Evolutionary Biology Seminar Series, University of Michigan, Ann Arbor, MI, USA.
2015	Ecology of Bornean vertebrate communities: how important is competition? Ecology, Evolutionary Biology and Behavior Seminar Series, Michigan State University, East Lansing, MI, USA.
2015	Program penelitian kelempiau dan kelasi (KKL): Hasil sederhana berdasarkan penelitian jangka waktu panjang tentang populasi vertebrata yang tempati

	beberapa tipe habitat Gunung Palung 30+, Sukadana, West Kalimantan, Indonesia. (In Indonesian).
2014	How can field research inform orangutan conservation in complex landscapes and an uncertain future? Orangutan Conservation Summit, Houston, TX, USA.
2013	Ecological and evolutionary perspectives on the adaptations of Bornean primates. Department of Anthropology, University of Michigan, Ann Arbor, MI, USA.
2013	Ecological, evolutionary, and community perspectives on the adaptations of Bornean primates: how important is competition? UNM Department of Anthropology Colloquium Series. University of New Mexico, Albuquerque, NM, USA.
2012	Ecological and historical perspectives on the conservation of Bornean orangutan populations. Santa Clara University Anthropology Colloquium. Santa Clara University, Santa Clara, CA, USA.
2011	Field primatology and conservation in the Bornean rainforest. Los Rios Anthropology Expo, Consumnes River College, Sacramento, CA, USA.
2011	Ecological studies of plants and primates at Gunung Palung National Park, West Kalimantan: perspectives from long-term research across a diverse tropical landscape. Indonesian Institute of Sciences, Cibinong, Java, Indonesia.
2011	Ecological and historical perspectives on the conservation of Bornean orangutan populations. Southern California Primate Research Forum. Topic: "Tropical forest ecology: implications for primate conservation". California State University, Fullerton, CA, USA.
2011	How ecology influences Bornean primate populations. College of Natural Resources, Department of Environmental Science, Policy and Management, University of California, Berkeley, CA, USA.
2011	How ecological variation influences Bornean primate populations: perspectives from research across a diverse tropical landscape. Nicholas School for the Environment, Duke University, Durham, NC, USA.
	UDES AND SAUTED AND

PUBLIC LECTURES AND OUTREACH (since 2010)

2022	Panel discussant for a public screening of the film <i>In the Land of Palm Oil</i> , a tricampus event across three University of Michigan campuses
2010	How long-term ecological research on primates enhances our understanding of human origins. Leakey Foundation Holiday Party, Tiburon, CA.
2010	Why conservation depends on evolutionary biology: Examples from Borneo's rain forest. Keynote speaker, Sacramento Darwin Day, Carmichael, CA, USA.

MEDIA COVERAGE

Research in Borneo has been featured in science and popular media outlets, including *Science*, *Nature*, *National Geographic*, *Scientific American*, *Smithsonian News*, *Discovery.com*, *Mongabay.com*, *The Washington Post*, *The New York Times*, *The Daily Mail*, *The Guardian*, *New Scientist*, and others.

Interviewed and cited in stories by CNN, National Geographic, Mongabay.com, New Scientist, The New York Times and others, and by local and national press outlets in China, Dubai, Indonesia, Malaysia, The Netherlands, Singapore, U.K., and U.S.A.

RESEARCH EXPERIENCE

1996 – 2020	Over six total years of field experience living and working in tropical rainforests of Indonesia (including 62 months on site at the Cabang Panti Research Station, Gunung Palung National Park, West Kalimantan).
2007 – 2020	Directing collection of long-term ecological data at the Cabang Panti Research Station, Gunung Palung National Park, West Kalimantan, Indonesia.
2006	Participated as a member of small survey team on an expedition to West Papua, Indonesia funded by the National Geographic Society. The principle goal of the trip, on which I served as team interpreter and general forest ecologist, was to gain additional information on the ecology and diet of the Hooded Pitohui, one of the world's few poisonous birds.
2004 – 2006	Edited, managed, contributed to, and conducted research for production of <i>The Ecology of Papua</i> (2006, A. J. Marshall and B. M. Beehler, eds, Singapore: Periplus Editions).
2001 – 2008	Worked as long-term biological and ecological consultant to the Nature Conservancy's East Kalimantan Program, Indonesia.
2000 – 2002	Conducted 24 months of Ph.D. fieldwork in Gunung Palung National Park, West Kalimantan, Indonesia.
1998	Conducted fieldwork on the comparative social endocrinology of chimpanzees, Pan troglodytes, and bonobos, Pan paniscus, in Kibale National Forest, Uganda, and Lomako Forest, Democratic Republic of Congo.
1997 –1999	Executed analyses in both the Reproductive Endocrinology and Nutritional Ecology Laboratories in the Anthropology Department at Harvard University.
1996 –1997	Worked for Harvard University and National Geographic Society managing a long term research project on orangutans, <i>Pongo pygmaeus</i> , and co-managing the Cabang Panti Research Station, West Kalimantan, Indonesia.
1996	Participated in large-scale experimental physiology project on rates of fat oxidation during exercise in dogs at Harvard's Concord Field Station.
1996	Assisted with research on the vocal repertoire of rhesus macaques, <i>Macaca mulatta</i> , on Cayo Santiago, Puerto Rico.
1995	Carried out independent research on the vocal communication of chimpanzees for senior thesis at Lion Country Safari Park, FL and North Carolina Zoo, NC.
1994	Conducted fieldwork on the effects of human disturbance and habitat fragmentation on the nocturnal arboreal marsupial populations of Far North Queensland, Australia.

SELECT AWARDS

2016 – 2017	University of Michigan Golden Apple Award Nominee
2013 – 2018	UC Davis Chancellor's Fellow

2012	UC Davis Provost's Hybrid Course Award, (with Tim Weaver): \$27,500
2009 – 2010	UC Davis Hellman Fellow, \$25,500
2000	J. William Fulbright Foreign Scholarship to Indonesia
1998 – 2002	Bok Center Awards for Distinction in Teaching
1996	Inducted into Phi Beta Kappa
1994 – 1996	John Harvard Scholarship
1992 – 1996	National Merit Scholarship
1992	U.S. Rowing Academic All-American

SELECT RESEARCH & CONSERVATION GRANTS

- National Science Foundation. DDRIG: The socioecology of gut microbiome-host endocrine interactions in white-faced capuchins (Cebus imitator), 2023. With Jordan Lucore. \$25,200.
- Leakey Foundation Research Grant. The socioecology of gut microbiome-host endocrine interactions in white-faced capuchins (Cebus imitator), 2022. With Jordan Lucore. \$20,000.
- National Science Foundation. *DDRIG: Ecological influences on coming to the ground in tree-dwelling primates*, 2022. With Gene Estrada. \$24,918.
- Leakey Foundation Research Grant. *Identifying the ecological correlates of arboreal primate terrestriality*, 2022. With Gene Estrada. \$10,519.
- University of Michigan Office of Research, Support for long-term interdisciplinary research and conservation work in Indonesian Borneo, 2021-2023, \$40,000.
- Leakey Foundation Research Grant. The effects of climate change on primates, their habitat, and their food, 2019-2020. With Andrew Bernard. \$11,171.
- National Science Foundation. *DDRIG:* Aging, frailty, and foraging ability of wild male chimpanzees, 2019-2020. Ben Finkel, \$17,811.
- Leakey Foundation Research Grant. Aging Apes: Foraging Strategies of Old Chimpanzees at Ngogo, 2018-2020. With Ben Finkel, \$14,195.
- National Geographic Society. 2017-2020. Mitigating the impacts of unsustainable hunting on ecosystem services. With Swapna Nelaballi. \$14,025.
- Association of Zoos and Aquariums Ape TAG Conservation Initiative Grant, Preserving apes and building capacity using participatory monitoring of ape populations across complex ecological landscapes, 2019. \$17,435.
- Disney Conservation Fund. Collaborative conservation of endangered vertebrates, 2018-2020. \$49,400.
- University of Michigan Office of Research, *Maintenance of long-term research in Indonesian* Borneo, 2018, \$10,000.
- Idea Wild, Collaborative conservation of endangered vertebrates, 2018, \$1,145 (in equipment).
- Association of Zoos and Aquariums Ape TAG Conservation Initiative Grant, *Preserving apes and building capacity using participatory monitoring of ape populations across complex ecological landscapes*, 2018. \$10,000.

- Victoria University, Wellington, New Zealand, *Mechanisms promoting co-existence in mega-diverse communities*, 2017. With Heiko U. Wittmer. \$45,675 NZD.
- Victoria University, Wellington, New Zealand, *Mechanisms promoting co-existence in mega-diverse communities*, 2016. With Heiko U. Wittmer. \$6,000 NZD.
- Victoria University, Wellington, New Zealand, *Mechanisms promoting co-existence in mega-diverse communities*, 2016. With Heiko U. Wittmer. \$12,550 NZD.
- Association of Zoos and Aquariums Ape TAG Conservation Initiative Grant, *Preserving apes and building capacity using participatory monitoring of ape populations across complex ecological landscapes*, 2014–2016. With Sarah M. Jaffe. \$30,000.
- Mohamed bin Zayed Species Conservation Fund, Promoting gibbon conservation in Gunung Palung National Park, West Kalimantan through training and participatory monitoring activities with Indonesian university students and citizen scientists, 2012. \$10,000.
- Victoria University, Wellington, New Zealand, *The importance of mast seeding for vertebrate community structure and dynamics*, 2012. With Heiko U. Wittmer. \$40,000 NZD.
- UC Davis New Research Initiatives. From individuals to landscapes: testing fundamental hypotheses about the reproduction of Bornean rainforest plants across a complex tropical landscape, 2009. \$12,000.
- Leakey Foundation Research Grant, Causes and consequences of habitat quality variation for Bornean primates, 2009. \$15,000.

PROFESSIONAL ACTIVITIES AND SERVICE (since 2010)

Select International and National Public Outreach

2023	Short Course on Data Analysis in R, Gunung Palung National Park, West Kalimantan, Indonesia (one-day course, taught in Indonesian)
2022	Short Field Course in Applied Tropical Ecology and Plant Taxonomy, Bukit Baka-Bukit Raya National Park (three-day course, taught in Indonesian)
2015 – 2019	Field Course in Applied Tropical Ecology and Vertebrate Census Techniques, Gunung Palung National Park (annual two-week course, taught in Indonesian)
2017	Participant in UNESCO workshop on <i>Primatology, Bio-cultural Diversity and Sustainable Development in Tropical Forests</i> at UNESCO in Mexico City, Mexico
2016	Several interviews (popular news outlets, scientific press) regarding the reclassification of Bornean orangutans as Critically Endangered
2012 –	Recurrent consulting expert for National Geographic Wild Network, National Geographic Society, and BBC Natural History

Select Professional Service

2024 –	Member of the Scientific Committee of the Detroit Zoological Society
2013 –	Member of Small Apes Section of IUCN Primate Specialist Group
2004 –	Member of Great Ape Section of IUCN Primate Specialist Group
2004 –	Member of Board of Directors, Gunung Palung Conservation Project
2020	International Primate Society Selection Committee for 2020 Meeting grants

2016 -External assessor for tenure / promotion review of candidate from peer institution (1-4 per year) Lead assessor for conservation status of Hylobates albibarbis for IUCN Species 2015 Survival Commission Red List of Threatened Species; Contributor to assessment of Presbytis rubicunda and Pongo pygmaeus 2008 - 2012Scientific advisor to The Nature Conservancy, USAID's Orangutan Conservation Services Program, and Flora-Fauna International on issues of climate change, wildlife corridors, and Reduced Emissions from Deforestation and Degradation 2007 - 2012 Scientific advisor to the Orangutan Conservancy on issues related to orangutan

Editorial Boards

2022-Associate Editor, Frontiers in Forests and Global Change: Tropical Forests section

2022-Associate Editor, Animals: Ecology and Conservation section

reintroduction and survey methods.

2014-2018 Ad Hoc Editor, Ecology

Journals Refereed

African Journal of Ecology Frontiers in Forests and Global Change American Journal of Physical Anthropology International Journal of Primatology

American Journal of Primatology Journal of Anatomy

Animal Behaviour Journal of Animal Ecology **Animal Conservation** Journal of Human Evolution Behavioral Ecology and Sociobiology Journal of Tropical Ecology

Biological Conservation Oecologia

Biological Journal of the Linnaean Society Oryx **Biotropica** People and Nature

Conservation Biology **PLoS Biology** Conservation Letters PLoS One

Conservation Science and Practice Physiology & Behavior

Current Biology **Primates**

Scientific Reports Ecology

Folia Primatologica

Tropical Conservation Science

Forest Ecology and Management Wildlife Research

Grants Reviewed

National Science Foundation, The British Ecological Society, The Leakey Foundation, Nacey Maggioncalda Foundation, National Geographic Society, Primate Conservation International, Sigma Delta Epsilon/Graduate Women in Science

Books Reviewed

Arcus Foundation, Cambridge University Press, McGraw-Hill, Oxford University Press, Springer, University of Chicago Press

Select University Service at Michigan

	2023 –	Associate Chair, Department of Anthropology
	2023 –	Member, Executive Committee, Department of Anthropology
	2023 –	Member, Curriculum Committee, Department of Anthropology
	2022 – 2024	ADVANCE Research & Evaluation Advisory Board
	2023	Chair, LSA Nominating Committee
	2022 – 2023	Fellowships Committee, Department of Anthropology
	2022 – 2023	Teaching Equity Committee, Department of Anthropology
	2022	Ad hoc Professor Evaluation Committee, Program in the Environment
	2022	Fulbright Interview Committee
	2022	Teaching Professor Review Committee, Department of Anthropology
	2022	Full Professor Promotion Committee, Program in the Environment
	2018 – 2021	Member, Divisional Evaluation Committee (Tenure and Promotion Committee for Social Sciences in the School for Literature, Science, and the Arts)
	2019 – 2021	Fellowships Committee, Department of Anthropology
	2021	Third-Year Review Assessor, Department of Ecology and Evolutionary Biology
	2021	Facilitator, Bio-Anthro Mentoring Working Group, Department of Anthropology
	2019, 2020	Full Professor Promotion Committee, Anthropology Department
	2020	Assistant Professor Launch Committee, Department of Anthropology
	2020	International Institute Fellowships Review Committee
	2020	Graduate Mentoring Workshop Leader
	2018	Chair, Primatology Search Committee
	2018 – 2019	Convener, Assistant Professor Launch Committee, Department of Sociology
	2017 – 2019	Biological Anthropology Subfield Head, Anthropology Department
	2017 – 2019	Executive Committee, Anthropology Department
Select University Service at UC Davis		
	2012 – 2014	Chair, Conservation Ecology Area of Emphasis, Graduate Group in Ecology
	2012 – 2014	Executive Committee Member, Animal Behavior Graduate Group
	2012 – 2013	Department of Anthropology representative to College Representative Assembly
	2012 – 2013	Member, Social Sciences Advisory Council
	2007 – 2012	Merton Love Award Committee, Graduate Group in Ecology

COURSES TAUGHT

Faculty, University of Michigan

ANTHRBIO / ENVIRON / EEB 362: Primate evolutionary ecology

ANTHRBIO 369 / COMPFOR 303: Fundamentals of scientific computing in R

ANTHRBIO / ENVIRON 461: Primate conservation biology

ANTHRBIO / PSYCH 463 / ENVIRON 473: Statistical modeling and data visualization in R

ANTHRBIO 570: Biological anthropology: overview

ATHRARC / ANTHRBIO / ANTHRCUL 770 Graduate proseminar in anthropology

ENVIRON 556: Field ecology (guest field instructor)

Field Course in Applied Tropical Ecology and Vertebrate Census Techniques, Gunung Palung National Park (annual two week course taught in Indonesian)

Faculty, University of California at Davis

ANT 001: Human Evolutionary Biology

ANT 054: Primatology (Guest lecturer)

ANT 154A: Primate Socio-ecology

ANT 154B: Primate Evolutionary Ecology

ANT 158: The Biological and Evolutionary Bases of Sex Differences

ANT 202: Graduate Seminar in History and Theory in Biological Anthropology

ANT 254: Graduate Seminar in Primate Socio-ecology

ANT 256: Graduate Seminar in Primate Conservation Biology

ECL 290: Graduate Seminar in Foundations of Primatology

ECL 290: Graduate Seminar on Ecology of Tropical Plants

ECL 298: Graduate Seminar on Effective Professional Presentations (Guest speaker)

ESP 220: Tropical Ecology (Guest lecturer)

SS 005: Forest and Society (Guest lecturer)

GRADUATE ADVISEES

Brandon, Clara (Ph.D. in process, Anthropology, University of Michigan)

Estrada, Gene (Ph.D. in process, Anthropology, University of Michigan)

Lucore, Jordan (Ph.D. in process, Anthropology, University of Michigan)

Sibarani, Marsya (Ph.D. in process, Anthropology, University of Michigan)

Bernard, Andrew (Ph.D. 2024, Anthropology, University of Michigan)

Finkel, Benjamin (Ph.D. 2024, Anthropology, University of Michigan)

Nelaballi, Swapna (Ph.D. 2023, Anthropology, University of Michigan, co-advised with Kim McConkey)

Clink, Dena (Ph.D. 2017, Anthropology, UC Davis, co-advised with Margaret Crofoot)

Beaudrot, Lydia (Ph.D. 2014, Ecology, UC Davis)

Feilen, Katie (Ph.D. 2014, Anthropology, UC Davis)

Dillis, Chris (M.Sc. 2014, Animal Behavior, UC Davis)

Boyko, Ryan (M.Sc. 2009, Ecology, UC Davis; 2009 M.A. Anthropology, UC Davis)

McLean Boyko, Corin (M. A. 2009, Anthropology, UC Davis)

LANGUAGES

Native English speaker; fluent written and spoken Indonesian; conversant Melayu and Malay; intermediate Spanish comprehension

CERTIFICATIONS

PADI Open Water Scuba

Red Cross CPR and First Aid

Leiden University/Arnold Arboretum Intensive Workshop in Tropical Plant Identification

Last updated: 28 May 2024