

ANDREW J. MARSHALL

Department of Anthropology
101 West Hall, 1085 S. University Ave,
Ann Arbor, Michigan 48109 USA
Phone: +1-734-763-4735
Email: ajmarsha@umich.edu

PERSONAL

Birthplace: Slough, United Kingdom
Citizenship: Dual, United States of America and United Kingdom

EDUCATION

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

INTERESTS

Biological anthropology; primate evolutionary ecology, population biology, and behavior; community ecology; tropical forest ecology; conservation biology

PROFESSIONAL POSITIONS

Current Positions

2014 – present Associate Professor, Department of Anthropology, University of Michigan
2013 – present Member of Small Apes Section of IUCN Primate Specialist Group
2007 – present Co-director, Cabang Panti Research Station, West Kalimantan, Indonesia
2004 – present Member of Great Apes Section of IUCN Primate Specialist Group
2000 – present Director Gunung Palung Gibbon and Leaf Monkey Ecology Project

Previous Positions

2012 – 2014 Chair, Conservation Ecology, Graduate Group in Ecology, UC Davis
2011 – 2014 Associate Professor, Department of Anthropology, UC Davis
2011 – 2014 Faculty Affiliate, John Muir Institute of the Environment, UC Davis
2010 – 2014 Faculty member, Animal Behavior Graduate Group, 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
- 2001 – 2008 Biological and ecological consultant to The Nature Conservancy
- 1999, 2002 Head Teaching Fellow, Human Behavioral Biology, Harvard University
- 1998 – 2002 Teaching Fellow, Department of Anthropology, Harvard University
- 1998 – 2000 Tutor in Anthropology and Biology at Winthrop House, Harvard University
- 1996 – 1997 Co-manager, Cabang Panti Research Station, West Kalimantan, Indonesia

PUBLICATIONS

Journal Articles

- Feilen, K. L. and A. J. Marshall. 2014. Sleeping site selection by proboscis monkeys (*Nasalis larvatus*) in West Kalimantan, Indonesia. *American Journal of Primatology*. doi: 10.1002/ajp.22298
- Marshall, A. J., L. Beaudrot, and H. U. 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*. doi: 10.1007/s10764-014-9774-4
- Beaudrot, L., J. Kamilar, A. J. Marshall, and K. E. Reed. 2014. African primate assemblages exhibit a latitudinal gradient in dispersal limitation. *International Journal of Primatology*. doi: 10.1007/s10764-014-9773-5
- Caro, T., A. Dobson, A. J. Marshall, and C. A. Peres. 2014. Compromise solutions between conservation and road building in the tropics. *Current Biology*. 24: R722–725.
- Wittmer, H. U., L. M. Elbroch, and A. J. 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, H. U., M. Hasenbank, L. M. Elbroch, and A. J. Marshall. 2014. Incorporating preferential prey selection and stochastic predation into population viability analysis for rare prey species. *Biological Conservation*. 172:8–14.
- Beaudrot, L., M. J. Struebig, E. Meijaard, S. van Balen, S. Husson and A. J. Marshall. 2013. Co-occurrence patterns of Bornean vertebrates suggest competitive exclusion is strongest among distantly related species. *Oecologia*. 173:1053–1062.
- Kramer-Schadt, S., J. Niedballa, J. D. Pilgrim, B. Schröder, J. Lindenborn, V. Reinfelder, M. Stillfried, I. Heckmann, A. K. Scharf, D. M. Augeri, S. M. Cheyne, A. J. Hearn, J. Ross, D. W. Macdonald, J. Mathai, J. Eaton, A. J. Marshall, G. Semiadi, R. Rustam, H. Bernard, R. Alfred, H. Samejima, J. W. Duckworth, C. Breitenmoser-Wuersten, J. L. Belant, H. Hofer, and A. Wilting. 2013. The importance of correcting for sampling bias in MaxEnt distribution models. *Diversity and Distributions*. 19:1366–1379.

- Beaudrot, L., M. Rejmánek, and A. J. 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, H. U., L. M. Elbroch, and A. J. Marshall. 2013. Good intentions gone wrong: did conservation management threaten endangered huemul deer in the future Patagonia National Park? *Oryx*. 47: 393–402.
- Wittmer, H. U., R. Serrouya, L. M. Elbroch, and A. J. Marshall. 2013. Conservation strategies for species affected by apparent competition. *Conservation Biology* 27:254–260.
- Beaudrot, L. H., M. J. Struebig, E. Meijaard, S. van Balen, S. Husson, C. F. Young, and A. J. Marshall. 2013. Interspecific interactions between primates, birds, bats and squirrels may affect community composition on Borneo. *American Journal of Primatology*. 75: 170–185.
- Wich, S. A., D. Gaveau, N. Abram, M. Ancrenaz, A. Baccini, S. Brend, L. Curran, R. A. Delgado, A. Erman, G. M. Fredriksson, B. Goossens, S. J. Husson, I. Lackman, A. J. Marshall, A. Naomi, E. Molidena, Nardiyono, A. Nurcahyo, K. Odom, A. Panda, Purnomo, A. Rafiastanto, D. Ratnasari, A. H. Santana, I. Sapari, C. P. van Schaik, J. Sihite, S. Spehar, E. Santoso, A. Suyoko, A. Tiju, G. Usher, S. S. Utami Atmoko, E. P. Willems, and E. Meijaard. 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. S. A. Wich, M. Ancrenaz, and A. J. 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. J., J. Ghazoul, P. Ashton, C. H. Cannon, L. Chong, B. Diway, E. Faridah, R. Harrison, A. Hector, P. Hollingsworth, L. P. Koh, E. Khoo, K. Kitayama, K. Kartawinata, A. J. Marshall, C. Maycock, S. Nanami, G. Paoli, M. D. Potts, I. Samsedin, D. Sheil, S. Tan, I. Tomoaki, C. Webb, T. Yamakura, and D. Burslem. 2011. Seeing the fruit for the trees in Borneo. *Conservation Letters*. 4: 184–191.
- Wich, S. A., E. R. Vogel, M. D. Larsen, G. Fredriksson, M. Leighton, C. P. Yeager, F. Q. Brearley, C. P. van Schaik, and A. J. Marshall. 2011. Forest fruit production is higher on Sumatra than Borneo. *PLoS One*. 6(6): e21278. doi:10.1371/journal.pone.0021278.
- Harrison, M. E. and A. J. 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, S. Wich, S. S. Utami Atmoko, A. Tjiu, D. Prasetyo, Nardiyono, Y. Hadiprakarsa, L. Christy, J. Wells, G. Albar, and A. J. 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, L. H. and A. J. 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, G. D., P. L. Wells, E. Meijaard, M. J. Struebig, A. J. Marshall, K. Obidzinski, A. Tan, A. Rafiastanto, B. Yaap, J. W. F. Slik, A. Morel, B. Perumal and 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, currently with more than 13,000 unique downloads).
- Spehar, S. N., P. D. Mathewson, Nuzuar, S. A. Wich, A. J. Marshall, H. Kühl, Nardiyono, and E. Meijaard. 2010. Estimating orangutan densities using the standing crop and marked nest count methods: lessons learned for conservation. *Biotropica*. 42: 748-757.
- Kettle, C. J., J. Ghazoul, P. Ashton, C. H. Cannon, L. Chong, B. Diway, E. Faridah, R. Harrison, A. Hector, P. Hollingsworth, L. P. Koh, E. Khoo, K. Kitayama, K. Kartawinata, A. J. Marshall, C. Maycock, S. Nanami, G. Paoli, M. D. Potts, D. Sheil, S. Tan, I. Tomoaki, C. Webb, T. Yamakura, D. Burslem. Mass fruiting in Borneo: a missed opportunity. 2010. *Science*. 330: 584.
- Meijaard, E., A. Welsh, M. Ancrenaz, S. Wich, V. Nijman, and A. J. 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, R. H. and A. J. Marshall. 2010. Using simulation models to evaluate ape nest survey techniques. *PLoS One*. 5(5): e10754. doi:10.1371/journal.pone.0010754.
- Marshall, A. J., C. M. Boyko, K. L. Feilen, R. H. Boyko, and M. Leighton. 2009. Defining fallback foods and assessing their importance in primate ecology and evolution. *American Journal of Physical Anthropology*. 140: 603–614.
- Beaudrot, L. H., S. M. Kahlenberg, and A. J. Marshall. 2009. Why male orangutans don't kill infants. *Behavioral Ecology and Sociobiology*. 63: 1549-1562. (One of ten most downloaded articles from *Behavioral Ecology and Sociobiology* website in 2009).
- Boyko, R. H. and A. J. Marshall. 2009. The willing cuckold: Optimal paternity allocation, infanticide, and male reproductive strategies in mammals. *Animal Behaviour*. 77: 1397-1407.
- Marshall, A. J. and E. Meijaard. 2009. Orangutan nest surveys: the devil is in the details. *Oryx*. 43: 416-418.
- Marshall, A. J. 2009. Are montane forests demographic sinks for Bornean white-bearded gibbons? *Biotropica*. 41:257-267.
- Wich, S. A., E. Meijaard, A. J. Marshall, S. Husson, M. Ancrenaz, R. C. Lacy, C. P. van Schaik, J. Sugardjito, T. Simorangkir, K. Traylor-Holzer, B. Galdikas, M. Doughty, J. Supriatna, R. Dennis, M. Gumal, C. D. Knott, and I. Singleton. 2008. Distribution and conservation status of the orang-utan (*Pongo* spp.) on Borneo and Sumatra: how many remain? *Oryx* 42:329–333.

- Meijaard, E., D. Sheil, A. J. Marshall, and R. Nasi. 2008. Phylogenetic age is positively correlated with sensitivity to timber harvest in Bornean mammals. *Biotropica*. 40: 76–85.
- Mathewson, P., S. Spehar, E. Meijaard, Nardiyono, Purnomo, A. Sasmirul, Sudiyanto, Oman, Sulhnuhin, Jasary, Jumali, and A. J. Marshall. 2008. Evaluating orangutan census techniques using nest decay rates: implications for population estimates. *Ecological Applications* 18: 208–221.
- Meijaard, E. and A. J. Marshall. 2008. Why didn't we just ask? *Forest Science News*. 4(10): 3. (Not peer reviewed)
- Marshall, A. J. and R. W. Wrangham. 2007. Evolutionary consequences of fallback foods. *International Journal of Primatology* 28:1219–1235.
- Cannon, C. H., L. M. Curran, and A. J. Marshall, and M. Leighton. 2007. Beyond mast-fruited events: Community asynchrony and individual dormancy dominate woody plant reproductive behavior across seven Bornean forest types. *Current Science*. 93:1558–1566.
- Marshall, A. J., L. A. Salas, L., S. Stephens, Nardiyono, L. M. Engström, E. Meijaard, and S. A. Stanley. 2007. Use of limestone karst forests by Bornean orangutans (*Pongo pygmaeus morio*) in the Sangkulirang Peninsula, East Kalimantan, Indonesia. *American Journal of Primatology* 69: 1-8.
- Cannon, C. H., L. M. Curran, A. J. Marshall, and M. Leighton. 2007. Long-term reproductive behavior of woody plants across seven Bornean forest types in the Gunung Palung National Park, Indonesia: suprannual synchrony, temporal productivity, and fruiting diversity *Ecology Letters* 10: 956-969.
- Marshall, A. J., Nardiyono, L. M. Engström, B. Pamungkas, J. Palapa, E. Meijaard, and S. A. Stanley. 2006. The blowgun is mightier than the chainsaw in determining population density of Bornean orangutans (*Pongo pygmaeus morio*) in the forests of East Kalimantan. *Biological Conservation* 129: 566-578.
- Johnson, A. J., C. D. Knott, B. Pamungkas, M. Pasaribu, and A. J. Marshall. 2005. A survey of the orangutan population in and around Gunung Palung National Park, West Kalimantan, Indonesia based on nest counts. *Biological Conservation* 121: 495-507.
- Marshall, A. J. and G. Hohmann. 2005. Urinary testosterone levels of wild male bonobos, *Pan paniscus*, in the Lomako Forest, DRC. *American Journal of Primatology* 65: 87-92.
- Yeager, C. P., A. J. Marshall, C. M. Stickler, and C. A. Chapman. 2003. Effects of forest fires on peat swamp and lowland Dipterocarp forests in Kalimantan, Indonesia. *Tropical Biodiversity* 8: 121-138.
- Marshall, A. J., R. W. Wrangham, and A. Arcadi. 1999. Does learning affect the structure of vocalizations in chimpanzees? *Animal Behaviour* 58: 825-830.

Book Chapters (Peer reviewed)

- Marshall, A. J. and S. A. Wich. 2013. Characterization of primate environments through assessment of plant phenology. In E. Sterling, M. Blair, and N. Bynum. *Primate Ecology and Conservation: A Handbook of Techniques*. Oxford: Oxford University Press. Pp. 103–127.
- Marshall, A. J. 2010. Effects of habitat quality on primate populations in Kalimantan: gibbons and leaf monkeys as case studies. In J. Supriatna and S. L. Gursky (Eds.) *Indonesian Primates*. New York: Springer. Pp. 157–177.
- Husson, S. J., S. A. Wich, A. J. Marshall, R. D. Dennis, M. Ancrenaz, R. Brassey, M. Gumal, A. J. Hearn, E. Meijaard, T. Simorangkir, and I. Singleton. Orangutan distribution, density, abundance and impacts of disturbance. 2009. In S. A. Wich, S. Utami, T. Mitra Setia, and C. P. van Schaik (eds). *Orangutans: Geographic variation in behavioral ecology and conservation*. Oxford: Oxford University Press. Pp. 77–96.
- Marshall, A. J., M. Ancrenaz, F. Q. Brearley, G. Fredriksson, N. Ghaffar, M. Heydon, S. Husson, M. Leighton, K. R McConkey, H. Morrogh-Bernard, J. Proctor, C. P. van Schaik, C. P. Yeager, and S. A. Wich. 2009. The effects of forest phenology and floristics on populations of Bornean and Sumatran orangutans: are Sumatran forests more productive than Bornean forests? In S. A. Wich, S. Utami, T. Mitra Setia, and C. P. van Schaik (eds). *Orangutans: Geographic variation in behavioral ecology and conservation*. Oxford: Oxford University Press. Pp. 97–117.
- Morrogh-Bernard, H. C., S. J. Husson, C. D. Knott, S. A. Wich., C. P. van Schaik, M. A. van Noordwijk, I. Lackman-Ancrenaz, A. J. Marshall, T. Kanamori, N. Kuze, R. bin Sakong. 2009. Orangutan activity budgets: a comparison between species, populations and habitats. In S. A. Wich, S. Utami, T. Mitra Setia, and C. P. van Schaik (eds). *Orangutans: Geographic variation in behavioral ecology and conservation*. Oxford: Oxford University Press. Pp. 119–133.
- Marshall, A. J., R. Lacy, M. Ancrenaz, O. Byers, S. Husson, M. Leighton, E. Meijaard, N. Rosen, I. Singleton, S. Stephens, K. Traylor-Holtzer, S. Utami Atmoko, C. P. van Schaik, and S. A. Wich. 2009. Orangutan population biology, life history, and conservation: Perspectives from PVA models. In S. A. Wich, S. Utami, T. Mitra Setia, and C. P. van Schaik (eds). *Orangutans: Geographic variation in behavioral ecology and conservation*. Oxford: Oxford University Press. Pp. 311–326.
- van Schaik, C. P., A. J. Marshall, and S. A. Wich. 2009. Geographic variation in orangutan behavior and biology: its functional interpretation and its mechanistic basis. In S. A. Wich, S. Utami, T. Mitra Setia, and C. P. van Schaik (eds). *Orangutans: Geographic variation in behavioral ecology and conservation*. Oxford: Oxford University Press. Pp. 351–361.
- Marshall, A. J., C. H. Cannon, and M. Leighton. 2009. Competition and niche overlap between gibbons (*Hylobates albibarbis*) and other frugivorous vertebrates in Gunung Palung National Park, West Kalimantan, Indonesia. In S. Lappan and D. J. Whittaker, (eds). *The gibbons: New perspectives on small ape socioecology and population biology*. New York: Springer. Pp. 161–188.

- Wrangham, R. W., G. Hagel, M. Leighton, A. J. Marshall, P. Waldau, and T. Nishida. 2008. The Great Ape World Heritage Species Project. In Mehlman, P., D. Steklis, and T. Stoinski (eds). *Conservation in the 21st Century: Gorillas as a Case Study*. New York: Kluwer Academic /Plenum Publishers. Pp. 282-295.
- Marshall, A. J. 2007. The diversity and conservation of Papua's ecosystems. In Marshall, A. J. and B. M. Beehler (eds.) *The Ecology of Papua* Singapore: Periplus Editions. Pp. 753-770.
- Marshall, A. J. and M. Leighton. 2006. How does food availability limit the population density of white-bearded gibbons? In Hohmann, G., M. Robbins, and C. Boesch (eds). *Feeding Ecology of the Apes*. Cambridge: Cambridge University Press. Pp. 313-335.
- Nishida, T., R. W. Wrangham, J. H. Jones, A. J. Marshall, and J. Wakibara. 2001. Do chimpanzees survive the 21st century? In *The Apes: Challenges for the 21st Century*. Conference Proceedings, Brookfield Zoo. Pp. 43-51.

Edited Books

- Kartikasari, S. N., Marshall, A. J., and B. M. Beehler. 2012. *Ekologi Papua*. Jakarta, Yayasan Obor Indonesia. 981 pp.
- Marshall, A. J. and B. M. Beehler. 2007. *The Ecology of Papua*. Singapore: Periplus Editions. Two volumes, 1467 pp.

Scientific Reports

- Marshall, A. J. 2008. Assessing the accuracy of structured village surveys as a means of sampling orangutan populations. The Nature Conservancy.
- Ancrenaz, M., A. J. Marshall, B. Goossens, C. P. van Schaik, J. Sugardjito, M. Gumal, and S. A. Wich. 2007. *Pongo pygmaeus*. 2007 IUCN Red List of Threatened Species.
- Marshall, A. J. 2002. Survey of the headwaters of the Sungai Gie and Sungai Lamcin, East Kalimantan. The Nature Conservancy.
- Marshall, A. J. 2002. Orangutan population survey of Gunung Gajah in Berau district, East Kalimantan. The Nature Conservancy.
- Marshall, A. J. 2002. Protocol for the rapid assessment of habitat quality for orangutans (*Pongo pygmaeus*) The Nature Conservancy.
- Marshall, A. J. 2001. Protocol for orangutan population survey of the Berau District, East Kalimantan. The Nature Conservancy.
- Marshall, A. J. J. H. Jones, and R. W. 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

- 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*, 150(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*, Supplement 54:204.
- 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
- 2010 *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
- 2010 *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
- 2008 *Defining fallback foods and considering their importance in primate ecology and evolution.* Conference of the American Association of Physical Anthropologists, Columbus, OH. *American Journal of Physical Anthropology* S46: 149
- 2006 *The effects of habitat quality, phenology, and floristics on populations of Bornean and Sumatran orangutans: are Sumatran forests more productive than Bornean forests?* International Congress of Primatologists, Entebbe, Uganda. *International Journal of Primatology* 27 S1: 381
- 2006 *Simian sources and sinks: incorporating spatial information on habitat quality into conservation plans for endangered primates.* International Congress of Primatologists, Entebbe, Uganda. *International Journal of Primatology* 27 S1: 18
- 2005 *What is a fallback food?* New England Biological Anthropology Symposium, Boston University, Boston, MA, USA
- 2004 *Density and demography of agile gibbons (*Hylobates agilis albibarbis*) and kelasi (*Presbytis rubicunda*) in seven forest types: the importance of habitat heterogeneity.* New England Biological Anthropology Symposium, Yale University, New Haven, CT, USA
- 2003 *Ecological constraints on primate density in Gunung Palung National Park, Indonesia.* New England Biological Anthropology Symposium, Harvard University, Cambridge, MA, USA

INVITED TALKS

- 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.
- 2010 *Ecological and historical perspectives on Bornean orangutan populations.* Evolutionary Anthropology Colloquium Series, Department of Anthropology, University of California at Davis, USA.
- 2010 *How field biologists can contribute to primate conservation: Three simple examples from Bornean rain forests.* Colloquium Series, California Academy of Sciences, San Francisco, CA, USA.
- 2010 *Applying field ecology to conservation biology: Three simple examples from Bornean rainforests.* Society for Conservation Biology, UC Davis Chapter, University of California at Davis, USA.
- 2008 *Overview of some ecological research conducted in Gunung Palung National Park, West Kalimantan.* Center for International Forestry Research, Bogor, Indonesia.
- 2007 *Effects of habitat quality on primate populations: implications for conservation.* Southern California Primate Research Forum "Asian Primates in Perspective". San Diego State University, San Diego, CA, USA.
- 2007 *Program Penelitian kelempiau dan kelasi di Taman Nasional Gunung Palung.* Gunung Palung National Park Bureau, Ketapang, West Kalimantan, Indonesia, with J. R. Harting. (In Indonesian)
- 2006 *Laporan hasil survei awal keanekaragaman hayati di Pegunungan Arfak dan Tamrau, Papua.* Biology Faculty, State University of Papua, Irian Jaya Barat, Indonesia. (in Indonesian)

- 2006 *Habitat quality and primate ecology: a case study of gibbons and leaf monkeys across a gradient of Bornean forest types.* Department of Anthropology, Stanford University, USA.
- 2006 *Habitat quality and primate ecology: a case study of gibbons and leaf monkeys across a gradient of Bornean forest types.* Department of Anthropology, University of California at Davis, USA.
- 2006 *Habitat quality and primate ecology: a case study of gibbons and leaf monkeys across a gradient of Bornean forest types.* Department of Anthropology, Washington University- St. Louis, USA.
- 2005 *The population ecology of white bearded gibbons and red leaf monkeys in Gunung Palung National Park, Indonesia.* New York Consortium of Evolutionary Primatology, New York, NY, USA.
- 2005 *The population ecology of white bearded gibbons and red leaf monkeys in Gunung Palung National Park, Indonesia.* Biology Department, Texas Tech University, Lubbock, TX, USA.
- 2004 *How does food availability constrain the population density of agile gibbons?* Feeding Ecology of the Apes and other Primates, Max Planck Institute, Leipzig, Germany.
- 2004 *The population ecology of white bearded gibbons and red leaf monkeys in Gunung Palung National Park, Indonesia.* Biology Department, University of Regina, Saskatchewan, Canada.
- 2002 *Ecological constraints on orangutan population density.* COE2/SAGA5 Conference on Great Apes, Inuyama, Japan.
- 2002 *Pengelolaan dan konservasi bersama kawasan habitat orangutan.* Orangutan Conservation Workshop, The Nature Conservancy, Samarinda, East Kalimantan, Indonesia (in Indonesian)
- 1998 *Does learning affect the structure of vocalizations in chimpanzees?* Max Planck Institute, Seewiesen, Germany.

PUBLIC LECTURES

- 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.
- 2006 *Tales from the forest: Research, conservation, and exploration in Indonesian Borneo.* Youth Program, Westborough State Hospital, Westborough, MA, USA.
- 2004 *Is community-based ecotourism an efficient use of biodiversity conservation funds?* Globalization, Eco-tourism and the State of Nature, Dunlop Art Gallery, Regina, Saskatchewan, Canada.
- 2004 *Sources, sinks, and primate conservation on Borneo: Is the conservation situation for rainforest primates as bad as it seems?* Zoo New England, Boston, MA, USA.
- 2002 *What determines habitat quality for orangutans?* Saving the Last Wild Orangutans, Harvard University, Cambridge, MA, USA.

RESEARCH EXPERIENCE

- 1996–present 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–present 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 *The Ecology of Papua* (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, *Pongo pygmaeus*, 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, *Macaca mulatta*, on Cayo Santiago, Puerto Rico.
- 1995 Carried out independent research on the vocal communication of chimpanzees for senior thesis project 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.

AWARDS

UC Davis Chancellor's Fellow, 2013-2014, \$25,000.
UC Davis Provost's Hybrid Course Award, 2012, (AJM & T. D. Weaver): \$27,500.
UC Davis Hellman Fellow, 2009-2010, \$25,500.
Cora Du Bois Dissertation Completion Fellowship, 2003-2004
Elliot Dissertation Writing Fellowship, 2002-2003
J. William Fulbright Foreign Scholarship to Indonesia, 2000
Frederick Sheldon Traveling Fellowship, 2000
Bok Center Award for Distinction in Teaching, 1998, 1999, 2000, 2002
Inducted into *Phi Beta Kappa*, May 1996
John Harvard Scholarship 1994-1995, 1995-1996
Honorable Mention, 1995, 1996, 1997 NSF Graduate Fellowship Competitions
National Merit Scholarship 1992-1996
U.S. Rowing Academic All-American 1992

RESEARCH & CONSERVATION GRANTS

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.
UC Davis Small Grant in Aid of Research, *Effects of spatial and temporal variation in plant productivity on the population ecology of Bornean rainforest primates*, 2013. \$2,000.
UC Davis Small Grant in Aid of Research, *Effects of spatial and temporal variation in plant productivity on the population ecology of Bornean rainforest primates*, 2012. \$2,000.
Seneca Park Zoo. Grant for orangutan- gibbon field research and habitat conservation, 2012. \$750.
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.
Victoria University, Wellington, New Zealand, *The importance of mast seeding for community dynamics*, 2011. With Heiko U. Wittmer. \$4,000 NZD.
UC Davis Small Grant in Aid of Research, *Effects of spatial and temporal variation in plant productivity on the population ecology of Bornean rainforest primates*, 2011. \$2,000.
Orangutan Conservancy Grant, *Emergency funding for Gunung Palung*, 2011. \$9,000.
Leakey Foundation Research Grant, *Emergency funding for Gunung Palung*, 2011. \$6,000.

- UC Davis Small Grant in Aid of Research, *Effects of spatial and temporal variation in plant productivity on the population ecology of Bornean rainforest primates*, 2010. \$1,800.
- 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.
- UC Davis Principal Investigator Bridge Program, *Continued research on the population ecology of Bornean rainforest primates*, 2008. \$12,000.
- UC Davis Small Grant in Aid of Research, *Continued research on the population ecology of Bornean rainforest primates*, 2008. \$2,000.
- Orangutan Conservancy, *Infrastructure completion of the Cabang Panti Research Station and re-establishment of research at Gunung Palung* (with C. Knott), 2007. \$10,000.
- UC Davis Small Grant in Aid of Research, *Effects of spatial and temporal variation in plant productivity on the population ecology of Bornean rainforest primates*, 2007. \$2,000.
- NSF Physical Anthropology Grant, *Factors affecting geographic variation in orangutan diets*. Vogel, Dominy, and Knott (AJM Senior Personnel, advisory role only), 2007. \$180,000.
- Orangutan Conservancy (with C. Knott), *Re-establishment of orangutan research at Gunung Palung*, 2006. \$5,000.
- Leakey Foundation Research Grant, *Population ecology of gibbons and leaf monkeys on Borneo*, 2000. \$11,986.

PROFESSIONAL ACTIVITIES AND SERVICE

Public Outreach

- | | |
|------|---|
| 2013 | Volunteer scientific consultant to National Geographic Society for National Geographic program on orangutans |
| 2012 | Volunteer scientific consultant to BBC Natural History Unit for two landmark series “Planet Primate” and “Monsoon” |
| 2012 | Wrote a featured piece for The Orangutan Conservancy’s “From the Forest” series, entitled “From the forest: Reflections on the conservation value of research in Gunung Palung National Park, West Kalimantan, Indonesia” |
| 2010 | Wrote entries for World Book Encyclopedia on <i>Bushmeat</i> and <i>Orangutans</i> |

Professional Service

- | | |
|---------------|---|
| 2014 | Advisory Board, Assessment of conservation interventions for primates, University of Cambridge and Max Planck Institute for Evolutionary Anthropology |
| 2014 | Scientific Program Committee, American Association of Physical Anthropologists |
| 2013– present | Member of Small Apes Section of IUCN Primate Specialist Group |
| 2013 | External reviewer for the Arcus Foundation’s <i>State of the Apes</i> report |
| 2012– present | Scientific advisor to Philadelphia Zoo |
| 2004– present | Member of Great Ape Section of IUCN Primate Specialist Group |

- 2004– present Member of Board of Directors, Gunung Palung Conservation Project
- 2010 Participation in the IUCN Species Survival Commission Red List Assessments for Small Carnivore Specialist Group, Cat Specialist Group, and Otter Specialist Group
- 2008 – 2012 Scientific 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 (REDD)
- 2007– 2012 Scientific advisor to the Orangutan Conservancy on issues related to orangutan reintroduction and survey methods.
- 2009 – 2010 Scientific Advisory Board for Association of Tropical Biology and Conservation’s (ATBC) International Congress in Bali, Indonesia
- 2007 Assessed conservation status of Bornean orangutans for IUCN Species Survival Commission Red List of Threatened Species
- 2006 Conducted training course of Orangutan Protection and Monitoring Unit, Flora Fauna International, Sukadana, Indonesia
- 2006 Conducted week-long training course on mammal survey techniques to staff of Gunung Palung National Park Bureau, Ketapang, Indonesia
- 2004 – 2005 Member of Harvard University Herbaria committee tasked with reviewing proposals to revise the International Code for Botanical Nomenclature
- 2003 – 2004 Invited consultant to IUCN Conservation Breeding Specialist Group for two Orangutan Population and Habitat Viability Analysis Workshops in Singapore and Jakarta
- 2000 – 2007 Contributing member of Great Ape World Heritage Species Project, Inc., Harvard University
- 2000 – 2002 Training courses in ecological techniques given for forestry officials and community members in East Kalimantan, Indonesia
- 2001 – 2003 Presentations to central, regional, and local government and local communities in Indonesia in support of orangutan and forest conservation efforts in Western and Eastern Borneo
- 2000 – 2002 Instructor for field training courses for Indonesian colleague students and educational activities for Indonesian schoolchildren
- 2000 Co-wrote a congressional briefing entitled *The Plight of the Apes* (1999, A. J. Marshall, J. H. Jones, and R. W. Wrangham) that provided key scientific evidence supporting the passage of the 1999 Great Apes Conservation Act in United States Congress
- 1999 Invited participant in semester-long Senior Teaching Fellows Program at Bok Center for Teaching and Learning, Harvard University
- 1998–2003 Consultant to Bok Center for Teaching and Learning, Harvard 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 Letters & Science College Representative Assembly

2012 – 2013	Member, Social Sciences Advisory Council
2012	Presenter for UC Davis Professors for the Future Program
2011 – 2012	Library and Computer Committee, Department of Anthropology
2007 – 2012	Undergraduate Committee, Department of Anthropology
2011, 2012	Chair, Preliminary Exam Committee, Department of Anthropology
2010 – 2011	Chair, Undergraduate Committee, Department of Anthropology
2007 – 2012	Merton Love Award Committee (for the most outstanding dissertation), Graduate Group in Ecology
2007 – 2011	Ecology and Evolution Seminar Committee, Graduate Group in Ecology
2010	Invited participant to forum “Graduate education for conservation professionals” sponsored by John Muir Institute for the Environment
2009 – 2010	Museum Committee, Department of Anthropology
2009 – 2010	Preliminary Exam Committee Member, Department of Anthropology
2009	Undergraduate Program Review Committee, Department of Anthropology

Journals Refereed

African Journal of Ecology	Forest Ecology and Management
American Journal of Physical Anthropology	International Journal of Primatology
American Journal of Primatology	Journal of Animal Ecology
Animal Behaviour	Journal of Human Evolution
Behavioral Ecology and Sociobiology	Journal of Tropical Ecology
Biological Conservation	Oecologia
Biological Journal of the Linnaean Society	PLoS One
Conservation Biology	Physiology & Behavior
Current Biology	Primates
Ecology (Ad hoc Editor & Reviewer)	Wildlife Research
Folia Primatologica	

Grants Reviewed

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

Memberships

International Primatological Society, The Ecological Society of America, Society for Conservation Biology, Association for Tropical Biology and Conservation, The Nature Conservancy, UC Davis Faculty Association

COURSES TAUGHT

Faculty, University of Michigan

ANTROBIO 469-001: Primate Evolutionary Ecology
ANTROBIO 469-002: Advanced Seminar in Primate Conservation Biology

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)

Instructor, Harvard University

A97Y: Biological Anthropology Tutorial

Teaching fellow, Harvard University

Sci B-29: Human Behavioral Biology
A115: Primate Evolutionary Ecology
A106: Primate Social Behavior

LANGUAGES

Fluent written and spoken Indonesian with experience in translation and formal presentation to Indonesian government, 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