

DAFTAR PUSTAKA

- Aires, M. M., Oliveira, K. V. G. d, Amaral, J. B. do, Neto, M. M., Martins, J. R. M., Santiago, A. L., & Biase, N. G. De. (2024). Effect of Testosterone on the Thyroarytenoid Muscle and Lamina Propria of Female Rat Vocal Folds. *Laryngoscope*, 134(5), 2316–2321. <https://doi.org/10.1002/lary.31201>
- Ario, A., Kartono, A. P., Prasetyo, L. B., & Supriatna, J. (2018). Habitat Suitability of Release Site for Javan Gibbon (*Hylobates moloch*) In Mount Malabar Protected Forests , West Java. *Jurnal Manajemen Hutan Tropika*, 24(2), 92–101. <https://doi.org/10.7226/jtfm.4.2.92>
- Ario, A., Kartono, A. P., Prasetyo, L. B., & Supriatna, J. (2019). Pre-release assessment of Javan Gibbon (*Hylobates moloch*) During Acclimatization Phase in Mount Malabar Protected Forest, West Java. *Jurnal Ilmu Lingkungan*, 17(2), 189. <https://doi.org/10.14710/jil.17.2.189-196>
- Ario, A., Supriatna, J., & Andayani, N. (2011). Owa (*Hylobates moloch* Audebert 1798) di Taman Nasional Gunung Gede Pangrango. In A. Ario, J. Supriatna, & N. Andayani (Eds.), *Owa (Hylobates moloch Audebert 1798) di Taman Nasional Gunung Gede Pangrango* (pp. 129–133). Conservation International Indonesia.
- Atsaury, Z. I. A., Husodo, T., Megantara, E. N., Lastini, T., Hernawan, E., Wulandari, I., & Shanida, S. S. (2025). Population and Habitat Analysis of Javan Gibbon (*Hylobates moloch*) in Fragmented Forests of West Java, Indonesia. *Biodiversitas*, 26(6), 2857–2872. <https://doi.org/10.13057/biodiv/d260629>
- Avenzora, R., Rachmatullah, A., Munajat, M., Winarno, G. D., Oktovianus, Suprajanti, D. S., Putra, N. D., Putra, L. A., Kholil, R., & Al-Ghifari, M. (2024). Dynamic Patterns of Primate Responses to Human Actions on Ecotourism Activities in Gunung Gede Pangrango National Park, Indonesia. *International Journal of Design & Nature and Ecodynamics*, 19(4), 1425–1437. <https://doi.org/https://doi.org/10.18280/ij dne.190435>
- Ayimpam, S., & Bouju, J. (2014). Ethical Challenges and Practical Risks of Fieldwork Research in Development or Emergency Contexts Fieldwork in Development and Emergency Settings : Confluence and Renewed Reflexivity Introduction : *Anthropologie & Développement*, September 2020, 40–41. <https://doi.org/10.4000/anthropodev.296>
- Bessone, M., Kühl, H. S., Hohmann, G., Herbing, I., N’Goran, K. P., Asanzi, P., Da Costa, P. B., Dérozier, V., Fotsing, D. B. E., Ikembelo, B. B., Iyomi, D. M., Iyatshi, B. I., Kafando, P., Kambere, A. M., Moundzoho, B. D., Musubaho, L. K., & Fruth, B. (2023). Assessing the Effects of Survey-inherent Disturbance on Primate Detectability: Recommendations for Line Transect Distance Sampling. *Primates*, 64(1), 107–121. <https://doi.org/10.1007/s10329-022-01039-4>
- Buxton, R. T., Brown, E., Sharman, L., Gabriele, C. M., & McKenna, M. F. (2016). Using Bioacoustics to Examine Shifts in Songbird Phenology. *Ecology and Evolution*, 6(14), 4697–4710. <https://doi.org/10.1002/ece3.2242>
- Calizza, E., Costantini, M. L., Careddu, G., & Rossi, L. (2017). Effect of Habitat Degradation on Competition, Carrying Capacity, and Species Assemblage Stability.

- Ecology and Evolution*, 7(15), 1–13. <https://doi.org/10.1002/ece3.2977>
- Chania, I., & Hidayat, M. (2024). Preserving Primate Paradises: Innovative Communication Risk Strategies for Deforestation Prevention in the Enchanting Mentawai Islands, Indonesia. *Jurnal Ekonomi*, 13(1), 2168–2181. <https://doi.org/10.54209/ekonomi.v13i01>
- Cheyne, S. M., Höing, A., Rinear, J., & Sheeran, L. K. (2012). Sleeping site selection by agile gibbons: The Influence of Tree Stability, Fruit Availability and Predation Risk. *Folia Primatologica*, 83(3–6), 299–311. <https://doi.org/10.1159/000342145>
- Choi, A., Yi, Y., Mardiasuti, A., & Choe, J. C. (2023). Intra-group Competition and Social Dynamics Regarding Dispersal and Maturation in Wild Javan Gibbon (*Hylobates moloch*). *Scientific Reports*, 13(1), 1–11. <https://doi.org/10.1038/s41598-023-34913-2>
- Clink, D. J., Grote, M. N., Crofoot, M. C., Marshall, A. J., Clink, D. J., Grote, M. N., Crofoot, M. C., & Marshall, A. J. (2018). Understanding Sources of Variance and Correlation among Features of Bornean Gibbon (*Hylobates Muelleri*) Female Calls. *The Journal of the Acoustical Society of America*, 144(2), 698–708. <https://doi.org/10.1121/1.5049578>
- Coudrat, C. N. Z., Nanthavong, C., Ngoprasert, D., Suwanwaree, P., & Savini, T. (2015). Singing Patterns of White-Cheeked Gibbons (*Nomascus* sp.) in the Annamite Mountains of Laos. *International Journal of Primatology*, 36, 691–706. <https://doi.org/10.1007/s10764-015-9849-x>
- Dallmann, R., & Geissmann, T. (2001). Individuality in The Female Songs of Wild Silvery Gibbons (*Hylobates moloch*) on Java, Indonesia. *Brill*, 70(1), 41–50. <https://doi.org/10.1163/18759866-07001003>
- Dallmann, R., & Geissmann, T. (2009). Individual and Geographical Variability in the Songs of Wild Silvery Gibbons (*Hylobates Moloch*) on Java, Indonesia. In *The Gibbons*. <https://doi.org/10.1007/978-0-387-88604-6>
- Dang, V. H. (2015). A Mixed Method Approach Enabling the Triangulation Technique : Case Study in Vietnam. *World Journal of Social Science*, 2(2), 1–13. <https://doi.org/10.5430/wjss.v2n2p1>
- Duchac, L. S., Lesmeister, D. B., Dugger, K. M., Ruff, Z. J., & Davis, R. J. (2020). Passive Acoustic Monitoring Effectively Detects Northern Spotted Owls and Barred Owls Over a Range of Forest Conditions. *The Condor: Ornithological Applications*, 122(2), 1–22. <https://doi.org/10.1093/condor/duaa017>
- Entling, M. H., Ehlers, P. T., Edo, M., & Rösch, V. (2026). Influence of Distance, Frequency, Habitat and Angle of Incidence on Sound Levels in Passive Acoustic Monitoring with AudioMoth Recorders. *Annals of Applied Biology*, 188(1), 221–228. <https://doi.org/10.1111/aab.70042>
- Erfanifard, Y., Kraszewski, B., Lisiewicz, M., Mielcarek, M., Czerepko, J., Kuberski, Ł., & Stereńczak, K. (2025). A New Lens on Biodiversity Assessment: The Reliability of High-Resolution Remote Sensing in Investigating Tree Species Diversity in Old-Growth Forests. *Forest Ecology and Management*, 595. <https://doi.org/10.1016/j.foreco.2025.122987>

- FAO/FAO. (2007). World forest cover 2000 (p. 1). <http://rainforests.mongabay.com/0103.htm>.
- Favaro, L., Zanolli, A., Ludynia, K., Snyman, A., Carugati, F., Friard, O., Scaglione, F. E., Manassero, L., Valazza, A., Mathevon, N., Gamba, M., & Reby, D. (2023). Vocal Tract Shape Variation Contributes to Individual Vocal Identity in African Penguins. *Proc Biol Sci*, 290, 1–10. <https://doi.org/10.1098/rspb.2023.1029/1261598/rspb.2023.1029.pdf>
- Febrissa, I., & Rinaldi, D. (2020). Daily Activity of Juvenile Javan Gibbon (*Hylobates moloch* Audebert 1798) in Gunung Halimun Salak National Park. *Zoo Indonesia*, 29(1), 39–53. <https://doi.org/10.52508/zi.v29i1.3979>
- Garcia, M., Herbst, C. T., Bowling, D. L., Dunn, J. C., & Fitch, W. T. (2017a). Acoustic Allometry Revisited : Morphological Determinants of Fundamental Frequency in Primate Vocal Production. *Scientific Reports*, 7(1), 1–11. <https://doi.org/10.1038/s41598-017-11000-x>
- Garcia, M., Herbst, C. T., Bowling, D. L., Dunn, J. C., & Fitch, W. T. (2017b). Acoustic Allometry Revisited: Morphological Determinants of Fundamental Frequency in Primate Vocal Production. *Scientific Reports*, 7(1), 1–11. <https://doi.org/10.1038/s41598-017-11000-x>
- Geissmann, T., Bohlen-Eyring, S., & Heuck, A. (2005). The Male Song of the Javan Silvery Gibbon (*Hylobates moloch*). *Contributions to Zoology*, 74(1–2), 1–25. <https://doi.org/10.1163/18759866-0740102001>
- Geissmann, T., & Nijman, V. (2006). Calling in Wild Silvery Gibbons (*Hylobates moloch*) in Java (Indonesia): Behavior, Phylogeny, and Conservation. *American Journal of Primatology*, 68(1), 1–19. <https://doi.org/10.1002/ajp.20203>
- Gittins, S. P. (1983). Use of the Forest Canopy by the Agile Gibbon. In *Folia primatologica; international journal of primatology* (Vol. 40, Issue 1, pp. 134–144). <https://doi.org/10.1159/000156095>
- Ham, S., Hedwig, D., Lappan, S., & Choe, J. C. (2016). Song Functions in Nonduetting Gibbons : Evidence from Playback Experiments on Javan Gibbons (*Hylobates moloch*). *International Journal of Primatology*, 37, 225–240. <https://doi.org/10.1007/s10764-016-9897-x>
- Ham, S., Lappan, S., Hedwig, D., & Choe, J. C. (2017). Female Songs of the Nonduetting Javan Gibbons (*Hylobates moloch*) Function for Territorial Defense. *International Journal of Primatology*, 38, 533–552. <https://doi.org/10.1007/s10764-017-9964-y>
- Han, P., Ma, H. G., Wang, Z. Di, Fan, P. L., & Fan, P. F. (2024). Vocal Differences in Note, Sequence, and Great Call Sequence among Three Closely Related *Nomascus* Gibbon Species. *International Journal of Primatology*, 46(1), 45–68. <https://doi.org/10.1007/s10764-024-00449-z>
- Hankinson, E. L., Hill, R. A., Marsh, C. D., Nowak, M. G., Abdullah, A., Pasaribu, N., Supriadi, Nijman, V., Cheyne, S. M., & Korstjens, A. H. (2021). Influences of Forest Structure on the Density and Habitat Preference of Two Sympatric Gibbons (*Symphalangus syndactylus* and *Hylobates lar*). *International Journal of Primatology*, 42(2), 237–261. <https://doi.org/10.1007/s10764-021-00199-2>

- Heinicke, S., Kalan, A. K., Wagner, O. J. J., Mundry, R., Lukashevich, H., & Köhl, H. S. (2015). Assessing the Performance of a Semi-automated Acoustic Monitoring System for Primates. *Methods in Ecology and Evolution*, 6(7), 753–763. <https://doi.org/10.1111/2041-210X.12384>
- Hillary, J., King, T., & Cheyne, S. M. (2017). Modelling Population Viability of Three Independent Javan Gibbon (*Hylobates moloch*) Populations on Java, Indonesia. *Folia Primatol (Basel)*, 88(6), 507–522. <https://doi.org/10.1159/000484559>
- Hollén, L. I., Clutton-Brock, T., & Manser, M. B. (2008). Ontogenetic Changes in Alarm-Call Production and Usage in Meerkats (*Suricata suricatta*): Adaptations or Constraints?. *Behavioral Ecology and Sociobiology*, 62(5), 821–829. <https://doi.org/10.1007/s00265-007-0508-x>
- Ilham, M., Perwitasari-farajallah, D., & Iskandar, E. (2019). Aktivitas dan Perilaku Pasangan Owa Jawa (*Hylobates moloch*) di Javan Gibbon Centre. *Jurnal Ilmu Pertanian Indonesia*, 24(3), 273–279. <https://doi.org/10.18343/jipi.24.3.273>
- Iskandar, E., Sinarga, W., Riendriasari, S., Rahmuddin, Tedjosiswojo, K., & Kyes, R. C. (2018). Survey of the Javan Gibbons (*Hylobates moloch*) in West and Central Java, Indonesia: Trends in Population Density. *Biological Systems: Open Access*, 7(1), 1–9. <https://doi.org/10.4172/2329-6577.1000184>
- Iskandar, F., Mardiasuti, A., Iskandar, E., & Kyes, R. C. (2009). Populasi Owa Jawa (*Hylobates moloch*) di Taman Nasional Gunung Pangrango, Jawa Barat. *Jurnal Primatologi Indonesia*, 6(1), 14–18.
- Kalan, A. K., Piel, A. K., Mundry, R., Wittig, R. M., Boesch, C., & Köhl, H. S. (2016). Passive Acoustic Monitoring Reveals Group Ranging and Territory Use: A Case Study of Wild Chimpanzees (*Pan troglodytes*). *Frontiers in Zoology*, 13(34), 1–11. <https://doi.org/10.1186/s12983-016-0167-8>
- Kappeler, P., & Watts, D. (2012). *Long-Term Field Studies of Primates*. <https://doi.org/10.1007/978-3-642-22514-7>
- Kim, S., Lappan, S., & Choe, J. C. (2011). Diet and Ranging Behavior of the Endangered Javan Gibbon (*Hylobates Moloch*) in a Submontane Tropical Rainforest. *American Journal of Primatology*, 73(3), 270–280. <https://doi.org/10.1002/ajp.20893>
- Laiolo, P. (2010). The Emerging Significance of Bioacoustics in Animal Species Conservation. *Biological Conservation*, 143(7), 1635–1645. <https://doi.org/10.1016/j.biocon.2010.03.025>
- Maida, S., Sukandar, P., & Istiadi, Y. (2016). Variasi Struktur Vokalisasi Owa Jawa (*Hylobates Moloch Audebert*, 1798) di Hutan Lindung Petungkriyono, Pekalongan, Jawa Tengah. *Bioma*, 12(1), 40–49. [https://doi.org/https://doi.org/10.21009/Bioma12\(1\).5](https://doi.org/https://doi.org/10.21009/Bioma12(1).5)
- Markolf, M., Zinowsky, M., Keller, J. K., Borys, J., Cillov, A., & Schülke, O. (2022). Toward Passive Acoustic Monitoring of Lemurs : Using an Affordable Open-Source System to Monitor Phaner Vocal Activity and Density. *International Journal of Primatology*, 43(1), 409–433. <https://doi.org/10.1007/s10764-022-00285-z>
- McCloughlin, M. P., Stewart, R., & McElligott, A. G. (2019). Automated Bioacoustics: Methods in Ecology and Conservation and Their Potential for Animal Welfare

- Monitoring. *Journal of the Royal Society Interface*, 16(155), 1–12. <https://doi.org/10.1098/rsif.2019.0225>
- Miri, A. K. (2014). Mechanical Characterization of Vocal Fold Tissue : A Review Study. *Journal of Voice*, 28(6), 657–667. <https://doi.org/10.1016/j.jvoice.2014.03.001>
- Mitani, J. C. (1984). The Behavioral Regulation of Monogamy in Gibbons (*Hylobates muelleri*). *Behavioral Ecology and Sociobiology*, 15(3), 225–229. <https://doi.org/10.1007/BF00292979>
- Nijman, V. (2004). Conservation of the Javan Gibbon (*Hylobates Moloch*): Population Estimates, Local Extinctions, And Conservation Priorities. *Raffles Bulletin of Zoology*, 52(1), 271–280.
- Nijman, V. (2006). In Situ and Ex Situ Status of the Javan Gibbon and the Role of Zoos in Conservation of the Species. *Contributions to Zoology*, 75(03–04), 161–168. <https://doi.org/10.1163/18759866-0750304005>
- Nijman, V. (2020). *Hylobates moloch*. In *The IUCN Red List of Threatened Species* (Vol. 8, Issue 11, p. eT.10550A17966495). <https://doi.org/https://dx.doi.org/10.2305/IUCN.UK.2020-2.RLTS.T10550A17966495.en>
- Pacifici, K., Simons, T. R., & Pollock, K. H. (2008). Effects of Vegetation and Background Noise on the Detection Process in Auditory Avian Point-count Surveys. *The Auk*, 125(3), 600–607. <https://doi.org/10.1525/auk.2008.07078>
- Poupard, M., Ferrari, M., Best, P., & Glotin, H. (2007). Passive Acoustic Monitoring of Sperm Whales and Anthropogenic Noise Using Stereophonic Recordings in The Mediterranean. *Scientific Reports*, 12(1), 1–13. <https://doi.org/10.1038/s41598-022-05917-1>
- Ręk, P., & Magrath, R. D. (2023). The Quality of Avian Vocal Duets Can be Assessed Independently of The Spatial Separation of Signallers. *Scientific Reports*, 13, 1–10. <https://doi.org/10.1038/s41598-023-43508-w>
- Schmidt, A. K. D., Römer, H., & Riede, K. (2012). Spectral Niche Segregation and Community Organization in a Tropical Cricket Assemblage. *Behavioral Ecology*, 24(3), 470–480. <https://doi.org/10.1093/beheco/ars187>
- Stowell, D., Petrusková, T., Šálek, M., & Linhart, P. (2019). Automatic Acoustic Identification of Individuals in Multiple Species: Improving Identification Across Recording Conditions. *Journal of the Royal Society Interface*, 16(153), 1–13. <https://doi.org/10.1098/rsif.2018.0940>
- Stubbs, G. (1799). *A Comparative Anatomical Exposition of the Human Body with That of a Tiger and Common Fowl* (1st ed.).
- Supriatna, J., Mootnick, A., & Andayani, N. (2009). *Javan Gibbon (Hylobates moloch): Population and Conservation* (S. Lappan & D. J. Whittaker (eds.); 1st ed.). Springer. https://doi.org/10.1007/978-1-4419-1560-3_5
- Sutherland, B. (2006). *Hylobates moloch* Skeleton. <https://www.flickr.com/photos/bensutherland/252246664/>
- Tang, H., & Dubayah, R. (2017). Light-driven Growth in Amazon Evergreen Forests

- Explained by Seasonal Variations of Vertical Canopy Structure. *Proceedings of the National Academy of Sciences of the United States of America*, 114(10), 2640–2644. <https://doi.org/10.1073/pnas.1616943114>
- Teixeira, D., Maron, M., & Rensburg, B. J. Van. (2019). Bioacoustic Monitoring of Animal Vocal Behavior for Conservation. *Conservation Science and Practice*, 1(8), 1–15. <https://doi.org/10.1111/csp2.72>
- Terry, A. M. R., Peake, T. M., & McGregor, P. K. (2005). The Role of Vocal Individuality in Conservation. *Frontiers in Zoology*, 16(2), 1–16. <https://doi.org/10.1186/1742-9994-2-10>
- Torti, V., Bonadonna, G., Gregorio, C. De, Valente, D., Marie, R., Friard, O., Pozzi, L., Gamba, M., & Giacoma, C. (2017). An Intra-population Analysis of the Indris' Song Dissimilarity in the Light of Genetic Distance. *Scientific Reports*, 7, 1–12. <https://doi.org/10.1038/s41598-017-10656-9>
- Valencia, M. M. A. (2022). Principles, Scope, and Limitations of the Methodological Triangulation. *Invest Educ Enferm*, 40(2), 1–14. <https://doi.org/10.17533/udea.iee.v40n2e03>
- Wahyuni, S., & Nasution, E. K. (2016). Studi Populasi Owa Jawa (*Hylobates moloch*) di Lereng Gunung Slamet Jawa Tengah. *Biosfera*, 33(1), 46–51. <https://doi.org/10.20884/1.mib.2016.33.1.359>
- Waltert, M., Grammes, J., Schwenninger, J., Roig-Boixeda, P., & Port, M. (2020). A Case of Underestimation of Density by Direct Line Transect Sampling in a Hunted Roe Deer (*Capreolus Capreolus*) Population. *Mammal Research*, 65(1), 151–160. <https://doi.org/10.1007/s13364-019-00450-5>
- Wearn, O. R., Trinh-Dinh, H., Ma, C. Y., Khac Le, Q., Nguyen, P., Van Hoang, T., Van Luong, C., Van Hua, T., Van Hoang, Q., Fan, P. F., & Duc Nguyen, T. (2024). Vocal Fingerprinting Reveals a Substantially Smaller Global Population of the Critically Endangered Cao Vit Gibbon (*Nomascus Nasutus*) Than Previously Thought. *Scientific Reports*, 14(1), 1–13. <https://doi.org/10.1038/s41598-023-50838-2>
- Widyastuti, S., Farajallah, D. P., Prasetyo, L. B., & Iskandar, E. (2023). The Javan Gibbon (*Hylobates moloch*) Habitat Changes and Fragmentation in the Dieng Mountains, Indonesia. *Jurnal Manajemen Hutan Tropika*, 29(2), 150–160. <https://doi.org/10.7226/jtfm.29.2.150>
- Widyastuti, S., Perwitasari-Farajallah, D., Iskandar, E., Prasetyo, L. B., Setiawan, A., Aoliya, N., & Cheyne, S. M. (2023). Population of the Javan Gibbon (*Hylobates moloch*) in the Dieng Mountains, Indonesia: An updated Estimation from a New Approach. *Biodiversity Data Journal*, 11. <https://doi.org/10.3897/BDJ.11.E100805>
- Wrege, P. H., Rowland, E. D., Keen, S., & Shiu, Y. (2017). Acoustic Monitoring for Conservation in Tropical Forests: Examples from Forest Elephants. *Methods in Ecology and Evolution*, 8(10), 1292–1301. <https://doi.org/10.1111/2041-210X.12730>
- Yi, Y., Choi, A., Lee, S., Ham, S., Jang, H., Oktaviani, R., Mardiasuti, A., & Choe, J. C. (2022). Transient Co-singing of Offspring and Mothers in Non-duetting Javan Gibbons (*Hylobates moloch*). *Frontiers in Ecology and Evolution*, 10, 1–10. <https://doi.org/10.3389/fevo.2022.910260>

- Yi, Y., Kim, Y., Hikmat, A., & Choe, J. C. (2020). Information Transfer Through Food from Parents to Offspring in Wild Javan Gibbons. *Scientific Reports*, 7(714), 1–9. <https://doi.org/10.1038/s41598-019-57021-6>
- Yumarni, Alikodra, H. S., Prasetyo, L. B., & Soekmadi, R. (2011). Analisis Populasi Owa Jawa (*Hylobates Moloch* Audebert 1797) di Koridor Taman Nasional Gunung Halimun Salak. *Media Konservasi*, 16(3), 133–140. <https://doi.org/https://doi.org/10.29244/medkon.16.3.%25p>
- Zhao, Y., Sun, Z., Bai, Z., Jin, J., & Wang, C. (2025). How Vegetation Structure Shapes the Soundscape : Acoustic Community Partitioning and Its Implications for Urban Forestry Management. *Forests*, 16(4), 1–17. <https://doi.org/https://doi.org/10.3390/f16040669>

