

# *Alice Catherine Hughes*

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## **Associate Professor**

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## **Education and Employment:**

2021- Associate Professor, University of Hong Kong

2020– 2021 Professor, Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences.

2016 – Present: Guest research Associate Position: Institute for Applied Systems Analysis, Austria.

2015 –2021: Group Leader Landscape Ecology Group, XTBG, Chinese Academy of Sciences.

2015: Honorary Research Associate Groningen University.

2014: Associate Professor, XTBG, Chinese Academy of Sciences.

2014: Honorary Research Associate, Bangor University.

2013: Assistant Professor, XTBG, Chinese Academy of Sciences.

2013 June – August: Research Mentor: OTS – Duke NAPIRE REU.

2012 – 2013: OCE Postdoctoral Fellow CSIRO, Canberra, Australia.

2011 – 2012: PSU Postdoctoral Fellowship, Prince of Songkla University, Thailand.

2011 – 2013: Research Associate, University of Bristol, UK.

2007 – 2011: Bristol University, PhD.

2004 – 2007: Bristol University – Bachelor of Science Zoology *1st class Honours*.

2004: Southampton University (Compass) – Higher diploma in Animal behaviour – Distinction.

## ***Publications***

**h-index=36, i10=76, 5079 citations total**

***\* indicates corresponding author/co-first***

***Peer reviewed publications Published/In Press***

Tanalgo, K. C., Sritongchuay, T., Agduma, A. R., Cruz, K. C. D., & **Hughes, A. C\***. (2023). Are we hunting bats to extinction? Worldwide patterns of hunting risk in bats are driven by species ecology and regional economics. *Biological Conservation*, 279, 109944.

Chesshire, P. R., Fischer, E. E., Dowdy, N. J., Griswold, T. L., **Hughes, A. C.**, Orr, M. C., ... & McCabe, L. M. (2023). Completeness analysis for over 3000 United States bee species identifies persistent data gap. *Ecography*, e06584.

**Hughes, A.C.** (2023) The Post-2020 Global Biodiversity Framework: How did we get here, and where do we go next? *Integrative Conservation*. 1-8. 10.1002/inc3.16

**Hughes, A.C.** (2023) Greetings from the new editor! The policy brief; a year in review. *Climate Change Ecology*. <https://doi.org/10.1016/j.ecochg.2023.100067>

Aung, T. S., **Hughes, A. C.**, Khine, P. K., Liu, B., Shen, X. L., & Ma, K. P. (2023). Patterns of Floristic Inventory and Plant Collections in Myanmar. *Plant Diversity*. <https://doi.org/10.1016/j.pld.2023.01.008>

Auliya, M., Altherr, S., Nithart, C., **Hughes, A.**, & Bickford, D. (2023). Numerous uncertainties in the multifaceted global trade in frogs' legs with the EU as the major consumer. *Nature Conservation*, 51, 71-135.

**Hughes, A. C.**,\* Tougeron, K., Martin, D. A., Menga, F., Rosado, B. H., Villasante, S., ... & do Couto, E. V. (2023). Smaller human populations are neither a necessary nor sufficient condition for biodiversity conservation. *Biological Conservation*, 277, 109841.

Chan, S., Bauer, S., Betsill, M.M., Biermann, F., Boran, I., Bridgewater, P., ...**Hughes, A.**, ...Pettorelli, N. (2022) The Global Biodiversity Framework Needs a Robust Action Agenda. *Nature Ecology and Evolution*. 1-2.

Sutherland, W., Bennet T, C., Brotherton, P.N.M., Butterworth, H.M., Clout, M.....**Hughes, A.**, ...Thornton, A. (2023) A Global Biological Conservation Horizon Scan of Issues for 2023. *TREE*. 38. 96-107.

**Hughes, A.**, Shen, X., Corlett, R., Li, L., Luo, M., Woodley, S., ... & Ma, K. (2022). Challenges and possible solutions to creating an achievable and effective Post-2020 Global Biodiversity Framework. *Ecosystem Health and Sustainability*, 8(1), 2124196.

Uddin, N., Enoch, S., Harihar, A., Pickles, R. S., & **Hughes, A. C\***. (2022). Laundered alive? the transnational trade in wild felids through Bangladesh. *Global Ecology and Conservation*, e02356.

Auliya, M., Altherr, S., **Hughes, A.**, Nithart, C., Ohler, A., & Bickford, D. (2023). The European Market Remains the Largest Consumer of Frogs' Legs from Wild Species. *Conservation*, 3(1), 53-58.

Orr, M. C., Feijó, A., Chesters, D., Vogler, A. P., Bossert, S., Ferrari, R. R., **Hughes, A.C.** ... & Zhu, C. D. (2022). Six steps for building a technological knowledge base for future taxonomic work. *National Science Review*.

Lu, S., Wang, Y., Zhou, J., **Hughes, A.C.**, Li, M., Du, C., Yang, X., Xiong, Y., Zi, F., Wang, W., Zheng, Z., Fang, C., Yu, S., (2022) Active water management brings possibility restoration to degraded lakes in dryland regions: a case study of Lop Nur, China. *Sci Rep* 12, 18578 (2022). <https://doi.org/10.1038/s41598-022-23462-9>

Uddin, N., Enoch, S., Harihar, A., Pickles, R. S., Ara, T., & **Hughes, A. C.\*** (2022). Learning from perpetrator replacement to remove crime opportunities and prevent poaching of the Sundarbans tiger. *Conservation Biology*. e13997.

Liu, S., Xia, S.W., Wu, D., Behm, J.E., Meng, Y.Y., Yuan, H., Wen, P., **Hughes, A.C.\***, Yang, D.D. (2022) Understanding global and regional patterns of termite diversity and regional functional traits. *iScience*. 25(12), 105538.

Zhang, Y.M., Tariq, A., **Hughes, A.C.\***, Hong, D., Wei, F.....Ma, K.P. (2022). Challenges and solutions to biodiversity conservation in arid lands. *Science of the Total Environment*. 159695

Chornelia, A., **Hughes, A.C.\*** (2022) Phenotypic traits evolution and morphological traits associated with echolocation calls in cryptic Horseshoe bats (Rhinolophidae). *Journal of Systematics and Evolution*. <https://doi.org/10.1111/jse.12924>

Farhadinia, M.S., Waldron, A., Kaszta, Z., Stewart, J., Eid, E., **Hughes, A.** , Ambarlı, H., ..... Macdonald, D.W., (2022) Current trends suggest most Asian countries are unlikely to meet future biodiversity targets on protected areas. *Communications Biology*. : 10.1038/s42003-022-04061-w

Uddin, N., Islam, A., Akter, T., Ara, T., Hossain, D., Fullstone, C., Era, S.E., **Hughes, A.C.\*** (2022) Exploring market-based wildlife trade dynamics in Bangladesh. *Oryx*. 1-13

Chornelia, A., **Hughes., A.C.\*** (2022) The evolutionary history and ancestral biogeographic range estimation of old-world Rhinolophidae and Hipposideridae (Chiroptera). *BMC Ecology and Evolution*. 122, 512.

Guo, Z., Still, C., Lee, C., Ryu, Y., Blonder, B., Wang, J., Bonebreak, T., **Hughes, A.**, Li, Y., Yeung, C., Zhang, K., Law, Y., Lin, Z., Wu, J. (*In Press*) Does plant ecosystem thermoregulation occur? An extratropical assessment at different spatial and temporal scales. *New Phytologist*. <https://doi.org/10.1111/nph.18632>

Feijó, A., Karlsson, C. M., Gray, R., Yang, Q., & **Hughes, A. C.\***. (2023). Extreme-sized anurans are more prone to climate-driven extinctions. *Climate Change Ecology*, 4, 100062.

Orr, M. C., **Hughes, A. C\***, Costello, M. J., & Qiao, H. (2022). Biodiversity data synthesis is critical for realizing a functional post-2020 framework. *Biological Conservation*, 274, 109735.

**Hughes, A.**, Shen, X., Corlett, R., Li, L., Luo, M., Pena Moreno, S., ... & Ma, K. (2022). Challenges and possible solutions to creating an achievable and effective Post-2020 Global Biodiversity Framework. *Ecosystem Health and Sustainability*, 2124196.

Sritongchuay, T., Dalsgaard, B., Wayo, K., Zou, Y., Simla, P., Tanalgo, K. C., ... & **Hughes, A. C\***. (2022). Landscape-level effects on pollination networks and fruit-set of crops in tropical small-holder agroecosystems. *Agriculture, Ecosystems & Environment*, 339. 108112.

**Hughes, A. C.**, Orr, M. C., Lei, F., Yang, Q., & Qiao, H. (2022). Understanding drivers of global urban bird diversity. *Global Environmental Change*, 76, 102588.

Simla, P., Chaianunporn, T., Sankamethawee, W., **Hughes, A. C\***, & Sritongchuay, T. (2022). Effect of Landscape Composition and Invasive Plants on Pollination Networks of Smallholder Orchards in Northeastern Thailand. *Plants*, 11(15), 1976.

Huang, M. J., **Hughes, A. C\***, Xu, C. Y., Miao, B. G., Gao, J., & Peng, Y. Q. (2022). Mapping the changing distribution of two important pollinating giant honeybees across 21000 years. *Global Ecology and Conservation*, e02282.

Fungjanthuek, J., Huang, M. J., **Hughes, A. C.**, Huang, J. F., Chen, H. H., Gao, J., & Peng, Y. Q. (2022). Ecological Niche Overlap and Prediction of the Potential Distribution of Two Sympatric Ficus (Moraceae) Species in the Indo-Burma Region. *Forests*, 13(9), 1420.

Armero, A., Li, R., Bienes, K.M., Chen, X., Li, J., Xu, S., Chen, Y., **Hughes, A.C**, Berthet, N., Wong, G. (2022) *Myotis fimbriatus* virome, a window to virus diversity and evolution in the genus *Myotis*. *Viruses*. 1230. <https://doi.org/10.3390/microorganisms10061230>

Prasetyo Agung, A., Chornelia., A., Grismer, L.L., Grismer, J.L., Quah, E.S.H., Lu, J., Tomlinson., K., **Hughes., A.C.\*** (2022) Description of two new species *Hemiphyllodactylus* (Reptilia: Gekkonidae) from karst landscapes in Yunnan, China highlights complex conservation needs. *Zoological Research*. 43(5), 767.

Tanalgo, K. C., Oliveira, H. F., & **Hughes, A. C.\*** (2022). Mapping global conservation priorities and habitat vulnerabilities for cave-dwelling bats in a changing world. *Science of The Total Environment*, 843, 156909

Tendu, A, **Hughes, A.C.**, Berthet, N., Wong, G. (2022) Viral Hyperparasitism in Bat Ectoparasites: Implications for Pathogen Maintenance and Transmission. *Microorganisms*. 1230. <https://doi.org/10.3390/microorganisms10061230>

Marshall B., Strine, C., Fukushima, C.S., Cardoso, P., Orr, M., **Hughes, A.C.\*** (2022) Searching the web builds a fuller picture of arachnid trade. *Communications Biology*. 5. 448.

Raman, S., Shameer, T.T., Pooja, U., **Hughes, A.C.\*** (2022) Identifying priority areas for bat conservation in the Western Ghats mountain range, peninsular India. *Journal of Mammalogy*. <https://doi.org/10.1093/jmammal/gyac060>

Katuwal, H.B., Rai, J., Tomlinson, K., Rimal, B., Sharma, H.P., Baral, H.S, **Hughes, A.C.**, Quan, R.C. (2022) Seasonal variation and crop diversity shape the composition of bird communities in agricultural landscapes in Nepal. *Agriculture, Ecosystems and Environment*. 333, 107973.

Katuwal, H.B., Gopi Sundard, K.S.G., Zhang, M., Rimale, B., Baralf, H.G., Sharmah, H.P., Ghimirei, P., **Hughes, A.C.**, Quan, R.C (2022) Tree height and colony level variables influence breeding of a globally threatened Lesser Adjutant in human-dominated agricultural landscapes. *Avian Conservation and Ecology*. 17.

Pomoim, N., Yongyut, T., **Hughes, A.C.**, Corlett, R.T. (2022) Vulnerability to climate change of species in protected areas in Thailand. *Scientific Reports*. 12, 5705.

Pomoim, N., Trisurat, Y., **Hughes, A. C.**, & Corlett, R. T. (2022). Can Thailand Protect 30% of Its Land Area for Biodiversity, and Will This Be Enough?. *Diversity*, 14(5), 344.

Andersson, E., Boonstra, W. J., de la Torre Castro, M., **Hughes, A. C.**, Ilstedt, U., Jernelöv, A., ... & Söderström, B. (2022). Ambio fit for the 2020s. *Ambio*, 1-3.

Orr, M., **Hughes, A.C.** (2022) Regreening: green is not always gold. *Nature*. 604. 40-40.

Tanalgo, K. T.....**Hughes, A.C.\***+ (2022) DarkCideS 1.0, a global database for bats in karsts and caves. *Scientific Data*. 9, 155.

Mkala, E. M., Jost, M., Wanke, S., Ngarega, B. K., **Hughes, A.**, Mutinda, E. S., ... & Wang, Q. F. (2022). How vulnerable are holoparasitic plants with obligate hosts to negative climate change impacts?. *Ecological Informatics*, 101636.

Chornelia, A., Lu., J.M., **Hughes, A.C.\***+ (2022) How to accurately delineate morphologically conserved taxa and diagnose its phenotypic disparities: a species delimitation in cryptic Rhinophidae (Chiroptera) of Asia lineages. *Frontiers in Ecology and Evolution*. 241.

Choo, S.W.....**Hughes, A.C. ....**(2022) A collective statement in support of saving pangolins. *Science of the Total environment*. 824, 153666.

Tanalgo, K. C., McConkey, K., Racey, P., Aziz, S. A., Sritongchuay, T., **Hughes, A. C.**,+ & Mildenstein, T. (2022). Understanding bat ecosystem services on a global scale requires caution and wider collaboration: a critical evaluation of Ramírez-Francel et al.(18). *Integrative Zoology*. 10.1111/1749-4877.12646

**Hughes, A.C.** (2021) Understanding the dimensions of wildlife trade-a Primer. *Current Biology*. 31(19), R1218-R1224.

Lopes Ferreira, R., Bernard., E.....**Hughes, A.C.** ... (2022) Brazilian cave heritage under siege. *Science*. [www.science.org/doi/10.1126/science.abo1973](http://www.science.org/doi/10.1126/science.abo1973).

Amal, U. S., Raman, S., & **Hughes, A. C.\*** (2022). First record of predation of a fruit bat by the Malabar Grey Hornbill (*Ocyrceros griseus*) from southern Western Ghats, India. *The Wilson Journal of Ornithology*. <https://doi.org/10.1676/19-00072>

Sutherland, W.J., Atkinson, P.W., Butchart, S.H.M., Capaja, M, Dicks, L.V., Fleishman, E., Gaston, K.J, Hails, R.S, **Hughes, A.C.**, Le Anstey, B., Le Roux, X., Lickorish, F.A., Maggs, L., Noor N., Oldfield, T.E.E., Palardy, J.E., Peck, L.S., Pettorelli, N., Pretty, J., Spalding, M.D., Tonneijck, F.H, Truelove, G., Watson, J.E.M., Wentworth, J., Wilson, J.D., Thornton, A. (2022) A horizon scan of global biological conservation issues for 2022. *Trends Ecol. Evol.* 37. 95-104.

Zhang, L., Sun, K., Csorba, G., **Hughes, A. C.**, Jin, L., Xiao, Y., & Feng, J. (2021). Complete mitochondrial genomes reveal robust phylogenetic signals and evidence of positive selection in horseshoe bats. *BMC Ecology and Evolution*, 21(1), 1-15.

Zhang, Y., **Hughes, A. C.**, Zhao, Z., Li, Z., & Qin, Y. (2022). Including climate change to predict the global suitable area of an invasive pest: *Bactrocera correcta* (Diptera: Tephritidae). *Global Ecology and Conservation*, e02021.

Zheng, Y.X., Wang, Y., Dai, B.Y., Li, Z., Huo, Q., Cui, J., Liu, H., Li, X., **Hughes, A.C.**, Zhang, A.B. (2022) Flight Mill Experiments and Computer Simulations Indicate Islands Recruit more Capable Flyers of Moths. *Frontiers in Ecology and Evolution*. 9, 771719.

Zhao, S., Hou, Y., Zhang, X., **Hughes, A.**, Liu, N., Peng, M., ... & Chen, H. (2022). Pinpointing the animal origins of SARS-CoV-2: a genomic approach. *Journal of Genetics and Genomics*.

Yang., B., Zhou., F., **Hughes., A.C\* +** (2021) Ecological Redlines provide a mechanism to maximize conservation gains in Mainland Southeast Asia. *OneEarth*. 4. 1491-1504.

**Hughes, A. C\*.**, Marshall, B., & Strine, C. (2021). Gaps in global wildlife trade monitoring leave amphibians vulnerable. *eLife*. 10, e70086.

Tanalgo, K. C., Sritongchuay, T., **Hughes, A. C\*.** (2021). Seasonal Activity of Fruit Bats in a Monoculture Rubber and Oil Palm Plantation in the Southern Philippines. *Conservation*, 1(3), 258-270.

Omifolaji, J., **Hughes, A.**, Ibrahim, A., Zhang, S., Zhou J., Ikyagba E. (2022) Dissecting illegal pangolin trade in China: An insight from seizure data reports. *Nature Conservation*. 46, 17.

Wang, Q., Chen, H., Shi, Y., **Hughes, A.**, Liu, W., Jiang, J., Gao, G., Xue, Y., & Tong, Y.

(2021) Tracing the origins of SARS-CoV-2: lessons learned from the past. *Cell Research*. 1-3.

Garibaldi, L.A., N. Pérez-Méndez, G. Cordeiro, **A.C. Hughes**, M.C. Orr, I. Alves-dos-Santos, B. Freitas, F. de Oliveira, G. LeBuhn, I. Bartomeus, M. Aizen, P. Andrade, B. Blochtein, D. Boscolo, P. Drumond, M. Gaglianone, B. Gemmill-Herren, R. Halinski, C. Krug, M. Maués, L. Kiill, M. Pinheiro, C. Pires, & B. Viana. (2021). Invasive honey bees are the most-dominant bee in Brazil but are no worse than dominant natives. *Ecology*.  
<https://esajournals.onlinelibrary.wiley.com/doi/abs/10.1002/ecy.3526>

Wu, C.I., Wen, H., Lu, J., Su, X., **Hughes, A.C.**, Zhai, W., Chen, C., Chen, H., Li, M., Song, S., et al. (2021). On the origin of SARS-CoV-2—The blind watchmaker argument. *Sci China Life Sci* 64, <https://doi.org/10.1007/s11427-021-1972-1>

Karlsson C. Tay. H, **Hughes, A.C.** + (2021) The Kinabalu Recorder, a new passive acoustic and environmental monitoring recorder. *Methods in Ecology and Evolution*.  
<https://besjournals.onlinelibrary.wiley.com/doi/abs/10.1111/2041-210X.13671>

Zhu L., **Hughes, A.C.\***, Zhao, X.Q., Zhou, L.J, Ma, K.P., Shen, X.L., Li, S., Liu., M.Z, Watson, J. (2021). Regional scalable priorities for national biodiversity and carbon conservation planning in Asia. *Science Advances*. <https://www.science.org/doi/10.1126/sciadv.abe4261>

Zhou, H., Ji, J., Chen, X., Bi, Y., Li, J., Hu, T., ... & **Hughes, A.C.\*+**, Holmes, E., Shi, W. (2021). Identification of novel bat coronaviruses sheds light on the evolutionary origins of SARS-CoV-2 and related viruses. *Cell*. <https://doi.org/10.1016/j.cell.2021.06.008>

Petrovan, S., Aldridge, D. C., Bartlett, H., Bladon, A., Booth, H., Broad, S., **Hughes, A.C.**, ..... & Cunningham, A. A. (2021). Post COVID-19: A solution scan of options for preventing future zoonotic epidemics. *Biological Reviews*. <https://onlinelibrary.wiley.com/doi/10.1111/brv.12774>

Sutherland, W.J, Taylor, N.G., Aldridge, D.C., Martin, P., Rhodes, C., Shackelford, G., Beardd, S., Belfieldd, H, Bladon, A.J., Brick, C., Christie, A.P., Dobson, A.P., Downey, H., Hood, A.S.C., Huah, F., **Hughes, A.C.**, Jarvis, R.M., MacFarlane, D., Morgan, W.H, Mupepele, A.C., Marciniak, S.J., Nelson, C., Ó hÉigeartaigh, S., Rios Rojas, C., Sainsbury, K.A., Smith, R.K., Sundaram, L.S., Thornton, A., Watkins, J., White, T.B., Willott, K., Petrovan, S.O (*In press*) A solution scan of societal options to reduce transmission and spread of respiratory viruses: SARS-CoV-2 as a case study. *Journal of Biosafety and Biosecurity*.

**Hughes A. C.**, M. C. Orr, K. P. Ma, M. J. Costello, J. Waller, P. Provoost, C.D. Zhu, H. Qiao (2021) Sampling biases shape our view of the natural world. *Ecography*.  
<https://doi.org/10.1111/ecog.05926>

Foggin, J.M., Lechner, A. M., Emslie-Smith, M., **Hughes, A.C.**, Dossani, R. (2021) Belt & Road Initiative in Central Asia: Anticipating socioecological challenges from large-scale infrastructure in a global biodiversity hotspot. *Conservation Letters*. <https://doi.org/10.1111/conl.12819>

Edwards, D.P., D’Cruze, N., Altherr, S, **Hughes, A.**, Janssen, J., Nijman, V., Pasachnik, S.A, Scheffers, B.A., Shepherd, C.R., Sy, E., Auliya, M. (2021) The dangers of misrepresenting wildlife trade, and its implications - a response to Natusch et al. (2020). *Conservation Biology*. <https://doi.org/10.1111/cobi.13829>

Than K, Zaw Z. **Hughes A. C\*\*** (2021) Investigating seasonal habitat-use of saltwater crocodiles in the Ayeyarwady Delta to identify potential conservation areas in Myanmar. *Aquatic Conservation*. 1–13. <https://doi.org/10.1002/aqc.3652>**THAN ET AL. 13**

**Hughes, A.C.**, Orr, M.C., Qinmin, Y., Qiao, H., (2021) Effectively and accurately mapping global biodiversity patterns for different regions and taxa. *Global Ecology and Biogeography*. 30, 1375–1388

**Hughes, A.C\***, Qiao, H., Orr, M.C. (2021) Extinction targets are not SMART (Specific, Measurable, Ambitious, Realistic, and Timebound). *Bioscience*. 71. 115 – 118.

Orr, M.C., **Hughes, A.C.\***, Chesters, D., Pickering, J., Zhu, C.D., Ascher, J.S. (2021) Global patterns of bee distribution. *Current Biology*. 31. 451 – 458.e4.

Feng, S., Yang, Q., **Hughes, A.C.**, Chen, J., Qiao, H. (2021) A novel method for multi-trajectory reconstruction based on LMCT for avian migration in population-level. *Ecological Informatics*. 63. 101319.

Tanalgo K., **Hughes A.C.\*** (2021) Bat-watching tourism increases urban tourist's learning experience, conservation willingness, and its relevance to bat management in the Philippines. *Environmental Challenges*. <https://doi.org/10.1016/j.envc.2021.100140>

Prasetyo Agung A., Grismer L.L, Grismer, J. L., Quah, E.S.H., Chornelia, A., Lu, J.M., **Hughes., A.C.\*+** (2021) A new species of *Hemiphyllodactylus* Bleeker (Squamata: Gekkonidae) from Yunnan, China and its phylogenetic relationship to other congeners. *Zootaxa*. 4980.

Orr, M.C., Ferrari, R.R., **Hughes, A.C.**, Chen, J., Ascher, J.S., Yan, Y.H., Williams, P.H., Zhou, X., Bai, M., Rudoy, A., Zhang, F., Ma, K., Zhu C.D. (2021) Taxonomy must engage with new technologies and evolve to face future challenges. *Nature Ecology & Evolution*. 5. 3 – 4.

Sritongchuay, T., Wayo, K., Orr, M.C., **Hughes A.C.\*+** (2021) Artificially – induced early flowering of a tropical fruit crop decreases pollinator importance, crop yield, and long – term economic viability. *Journal of Applied Ecology*. 58. 80 – 91.

Raman, S., **Hughes, A.C.\*+** (2021) Echobank for the Bats of Western Ghats Biodiversity Hotspot, India. *Acta Chiropterologica*. 22. 349–364.

Raman, S., Padmarajan, A., Thomas, L., Sidharthan, A., & **Hughes, A. C.\*** (2020). New geographic record of Peters's Trumpet-eared Bat *Phoniscus jagorii* (Peters, 1866) from India. Bat Research & Conservation www. secemu. org. *Journal of Bat Research & Conservation* 13(1), 66.



Pomoi, N., Zomer, R.J., **Hughes, A.C.**, Corlett, R.T. (2021) The Sustainability of Thailand's Protected – Area System under Climate Change. *Sustainability*. 13. 2868.

Proches, S., Ramdhani, S., **Hughes, A.C.**, Koh, L.P. (2021) Southeast Asia as one of World's primary sources of biotic recolonisation following anthropocene extinctions. *Frontiers in Ecology and Evolution*. 9. 116.

Takeuchi, Y., Muraoka, H., Yamakita., T., Kano. Y., Nagai., S., Bunthang, T., Costello, M.J., Darnaedi, D., Diway, B., Ganyai, T., Grudpan. C., **Hughes, A.**, Ishii, R., Lim, P.T., Ma, K., Muslim, A.M., Nakano, S., Nakaoka, M., Nakashizuka, T., Onuma, M., Park, C.H., Pungga, R.S., Saito, Y., Shakya, M.M., Sulaiman, M.K., Sumi, M., Thach, P., Trisurat, Y., Xu, X., Yamano, H., Yao, T.L., Kim, E.S., Vergara, S., Yahara, T. (2021) The Asia – Pacific Biodiversity Observation Network: 10 – year achievements and new strategies to 2030. *Ecological Research*. <https://doi.org/10.1111/1440-1703.12212>

Su, T., Spicer, R.A., Wu, F.X., Farnsworth, A., Huang, J., Rio, C.D., Deng, T., Ding, L., Deng, W.Y.D., Huang, Y.J., **Hughes, A.**, Jia, L.B., Jin, J.H., Li, S.G., Liang, S.Q., Liu, J., Liu, X.Y., Sherlock, S., Spicer, T., Srivastava, G., Tang, H., Valdes, P., Wang, T.X., Widdowson, M., Wu, M.X., Xing, Y.W., Xu, C.L., Yang, J., Zhang, C., Zhang, S.T., Zhang, X.W., Zhao, F., Zhou, Z.K. (2021) A middle Eocene lowland humid subtropical ‘Shangri – La’ ecosystem in central Tibet. *PNAS*. 117. 32989 – 32995.

Marshall, B., Strine, C., **Hughes, A.C.\*** (2020) Thousands of reptile species threatened by under – regulated global trade. *Nature Communications*. 11. 4738.

**Hughes, A.C.\***, Lechner, A.M., Chitov, A., Horstmann, A., Hinsley, A., Tritto, A., ... Yu, D. (2020) Horizon Scan of the Belt and Road Initiative. *Trends in Ecology & Evolution*. 35. 583 – 593.

Mi, X., Feng, G., Hu, Y., Zhang, J., Chen, L., Corlett, R.T., **Hughes, A.C.**, Pimm, S., Schmid, B., Shi, S., Svenning, J.C., Ma, K. (2021) The global significance of biodiversity science in China: an overview. *National Science Review*. nwab032

Yang, X., Li, S., **Hughes, A.**, Feng, G. (2021) Threatened bird species are concentrated in regions with less historical human impacts. *Biological Conservation*. 255. 108978.

Sutherland, W., Atkinson, P.W., Broad, S., Brown, S., Clout, M., Dias, M.P., Dicks, L.V., Doran, H., Fleishman, E., Garratt, E.L., Gaston, K.J., **Hughes, A.C.**, Le Roux, X., Lickorish, F. A., Maggs, L., Palardy, J.E., Peck, L.S., Pettorelli, N., Pretty, J., Spalding, M.D., Tonneijck, J.F., Walpole, M., Watson, J., Wentworth, J., Thornton, A. (2020) A 2021 horizon scan of emerging global biological conservation issues. *Trends in Ecology and Evolution*. 36. 87 – 97.

Than K., Zaw Z., **Hughes A.C.\*** + (2020) Integrating local perspectives into conservation to enable human – crocodile coexistence in the Ayeyarwady Delta, Myanmar. *Oryx*. 1 – 9. DOI: <https://doi.org/10.1017/S003060532000037X>

Garibaldi, L.A., Oddi, F.J., Miguez, F.E., Bartomeus, I., Orr, M.C., Jobbágy, E.G., ... **Hughes A.C.**, Abramson, G. (2020) Working landscapes need at least 20% native habitat. *Conservation Letters*. e12773.

Borzée, A., McNeely, J., Magellan, K., Miller, J.R., Porter, L., Dutta, T., **Hughes, A.C.**, Ryan, G. E. (2020) COVID – 19 highlights the need for more effective wildlife trade legislation. *Trends in Ecology & Evolution*. 35. 1052 – 1055.

**Hughes, A.C.** (2020) BRI's environmental choices. *One Earth*. 3. 263 – 267.  
doi:10.1016/j.oneear.2020.08.020–*Perspectives article*

Bai, Y., Zhou, Y., Alatalo, J., **Hughes, A.C.\*** (2020) Changes in Air Quality during the First – Level Response to the Covid – 19 Pandemic in Shanghai Municipality, China. *Sustainability*. 12. 8887.

Turton, S., Lynam, T., **Hughes, A.C.**, Parolin, P., Calme, S., Fragoso, J.M.V., Sheherazade, S., Linkie, M. (2020) The future for ATBC conservation declarations. *Biotropica*. 52. 795 – 802.

Than, K.Z., Strine, C., Sritongchuay, T., Zaw, Z., **Hughes, A.C.\*** + (2020) Estimating population status and site occupancy of saltwater crocodiles *Crocodylus porosus* in the Ayeyarwady delta, Myanmar: inferences from spatial modeling techniques. *Global Ecology and Conservation*. 24. e01206.

Ng, L.S., Campos – Arceiz, A., Sloan, S., Li, B., **Hughes, A.C.**, Lechner, A.M. (2020) Impacts of China's Belt and Road Initiative on biodiversity in Southeast Asia. *Biological Conservation*. 248. 108691.

Lu S., Chen, F., Zhou, J., **Hughes A.C.\***, Dubee, F., Ma, X., Qiu, Y. (2020) Cascading implications of a single climate change event for fragile ecosystems on the Qinghai – Tibetan Plateau. *Ecosphere*. 11. e03243.

Tanalgo, K., De Monfort, N., **Hughes A.C.\*** + (2020) Attacked from above and below: new ethological evidence on the predation strategies of corvid and varanid on a cave – roosting bat. *Ethology Ecology & Evolution*. 32. 596 – 610.

Zhou, H., Chen, X., Hu, T., Li, J., Song, H., Liu, Y., ... & **Hughes, A.C.\*** + Shi, W (2020) A novel bat coronavirus closely related to SARS – CoV – 2 contains natural insertions at the S1/S2 cleavage site of the spike protein. *Current Biology*. 30. 2196 – 2203.e3.

Harvey, J.A., Heinen, R., Armbrrecht, I., Basset, Y., Baxter – Gilbert, J.H., Bezemer, T.M., **Hughes, A.C.**, Clausnitzer, V. (2020) International scientists formulate a roadmap for insect conservation and recovery. *Nature Ecology & Evolution*. 4. 174-176.

Hazra, T., Spicer, R.A., Hazra, M., Mahato, S., Spicer, T.E., Bera, S., ... **Hughes, A.C.**, Khan, M.A. (2020) Latest Neogene monsoon of the Chotanagpur Plateau, eastern India, as revealed by fossil leaf architectural signatures. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 545. 109641.

Song, B., Spicer, R.A., Zhang, K., Ji, J., Farnsworth, A., **Hughes, A.C.**, ... Shen, T. (2020) Qaidam Basin leaf fossils show northeastern Tibet was high, wet and cool in the early Oligocene. *Earth and Planetary Science Letters*. 537. 116175.

Liu, W. J., **Hughes, A.C.\***, Bai, Y., Liu, Z., Mei, C., Ma, Y. (2019) Using landscape connectivity tools to identify actual and potential conservation priorities: a case study in Xishuangbanna forest. *Landscape Ecology*. 35. 389 – 402.

Sutherland W., Dias, M.P., Dicks, L.V., Doran, H., Entwistle, A.C., Fleishman, E., Gibbons, D. W., Hails, R., **Hughes, A.C.**, Hughes, J., Kelman, R., LeAnstey, B., le Roux, X., Lickorish, F.A., Maggs, L., Pearce – Higgins, J.W., Peck, L.S., Pettorelli, N., Pretty, J., Spalding, M.D., Tonneijck, J.F. Wentworth, J., Thornton, A. (2020) A horizon scan of emerging global biological conservation issues for 2020. *Trends in Ecology and Evolution*. 35. 81 – 90.

Jørgensen, P.S., Evoh, C.J., Gerhardinger, L.C., **Hughes, A.C.**, Langendijk, G.S., Moersberger, H., ... Mukherjee, N. (2019) Building urgent intergenerational bridges: assessing early career researcher integration in global sustainability initiatives, *Current Opinion in Environmental Sustainability*. 39. 153 – 159.

Yue, X., **Hughes, A.C.**, Tomlinson, K.W., Xia, S., Li, S., Chen, J. (2019) Body size and diet – related morphological variation of bats over the past 65 years in China. *Journal of Mammalogy*. 101. 61 – 79.

Chen, X., Zhao, J., Chen, Y.H., Zhou, W., **Hughes, A.C.\* +** (2019) Automatic standardized processing and identification of tropical bat calls using deep learning approaches. *Biological Conservation*. 241. 108269.

Sritongchuay, T., **Hughes, A.C.\* +**, Memmott, J., Bumrungsri, S. (2019) Forest proximity and lowland mosaic increase robustness of tropical pollination networks in mixed fruit orchards. *Landscape and Urban Planning*. 192. 103646.

Tanalgo, K.C., Achondo, M.J.M.M., **Hughes, A.C.\* +** (2019) Small things matter: the value of rapid biodiversity surveys to understanding local bird diversity patterns in Southcentral Mindanao, Philippines. *Tropical Conservation Science*. 12. 1940082919869482.

Tanalgo, K.C., **Hughes, A.C.\* +** (2019) Priority – setting for Philippine bats using practical approach to guide effective species conservation and policy – making in the Anthropocene. *Hystrix, the Italian Journal of Mammalogy*. 30. 74–83.

Sritongchuay, T., **Hughes, A.C.\* +**, Bumrungsri S. (2019) The role of bats in pollination

networks is influenced by landscape structure. *Global Ecology and Conservation*. 20. e00702.

Coleman, J.L., Ascher, J.S., Bickford, D., Buchori, D., Cabanban, A., Chisholm, R.A., **Hughes, A.C.**, Carrasco, R. (2019) Top 100 research questions for biodiversity conservation in Southeast Asia. *Biological Conservation*. 234. 211 – 220.

Spicer, R., Valdes, P., **Hughes, A.**, Yang, J., Spicer, T., Herman, A., Farnsworth, A. (2020) New insights into the thermal regime and hydrodynamics of the early Late Cretaceous Arctic. *Geological Magazine*. 157. 1729-1746.

**Hughes, A.C.** (2019) Understanding and minimizing environmental impacts of the Belt and Road Initiative. *Conservation Biology*. 33. 883 – 894.

Bai, Y., Wong, C.P., Jiang, B., **Hughes, A.C.**, Wang, M., Wang, Q. (2018) Developing China's Ecological Redline Policy using ecosystem services assessments for land use planning. *Nature Communications*. 9. 3034.

Li, J., **Hughes, A.C.\***, Dudgeon, D. (2019) Mapping wader biodiversity along the East Asia – Australasia Flyway. *PloS one*. 14. e0210552.

Wyckhuys, K.A., **Hughes, A.C.**, Buamas, C., Johnson, A.C., Vasseur, L., Reymondin, L., ... Sheil, D. (2019) Biological control of an agricultural pest protects tropical forests, *Nature Communications Biology*. 2. 1 – 8.

Sutherland, W.J., Broad, S., Butchart, S.H., Clarke, S.J., Collins, A.M., Dicks, L.V., ... **Hughes, A.C.**, Ockendon, N. (2019) A horizon scan of emerging issues for global conservation in 2019. *Trends in Ecology and Evolution*. 43. 83 – 94.

**Hughes, A.C.** (2018) Have Indo – Malaysian forests reached the end of the road? *Biological Conservation*. 223. 129 – 137.

Tanalgo, K.C, **Hughes, A.C.\*** + (2018) Bats of the Philippine Islands –a review of research directions and relevance to national – level priorities and targets. *Mammalian Biology*. 91. 46 – 56.

Tanalgo, K.C., Tabora. J.A.G., **Hughes, A.C.\*** + (2018) Bat Cave Vulnerability Index (BCVI): A proposed rapid assessment tool to identify priorities for effective cave conservation in the tropics. *Ecological Indicators*. 80. 852 – 860.

Gray, T., **Hughes, A.C.**, Laurence, W., Long, B., Lynam, A., O'Kelly, H., Ripple, W., Seng, T., Scotman, L., Wilkinson, N. (2017) The wildlife snaring crisis: an insidious and pervasive threat to biodiversity in Southeast Asia. *Biodiversity and Conservation*. 27. 1031–1037.

**Hughes, A.C.** (2017) Global roadless areas: Hidden roads. *Science*. 355. 1381-1381.

**Hughes, A.C.** (2017) Mapping priorities for conservation in Southeast Asia. *Biological*

*Conservation*. 209. 395–405.

**Hughes, A.C.** (2017) Understanding the drivers of Southeast – Asian biodiversity loss. *Ecosphere*. 8. e01624.

Mohandass, D., Campbell, M.J., **Hughes, A.C.**, Mammides, C., Davidar, P. (2017) The effect of altitude, patch size and disturbance on species richness and density of lianas in montane forest patches. *Acta Oecologica*. 83. 1 – 14.

Russo, D., Ancillotto, L., **Hughes, A.C.**, Galimberti, A., Mori, E. (2017) Collection of voucher specimens for bat research: conservation, ethical implications, reduction, and alternatives. *Mammal Review*. 47. 237 – 246.

Souter, N.J., **Hughes, A.C.**, Savini, T., Rao, M., Goodale, E., Van Nice, A., ... Li Heung – Lam, A. (2017) Building conservation capacity in Southeast Asia: Outcomes of the ATBC 2015 Asia – Pacific Chapter meeting conservation education symposium. *Applied Environmental Education & Communication*. 16. 149 – 156.

Caddy-Retalic, S., Andersen, A.N., Aspinwall, M.J., Breed, M.F., Byrne, M., Christmas, M.J., ... **Hughes, A.C.**, Hoffmann, A.A. (2017) Bioclimatic transect networks: Powerful observatories of ecological change. *Ecology and Evolution*. 7. 4607 – 4619.

Tan, Z.H., Wu, Z.X., La, G.Y., Yang, C., Tao, Z.L., Chen, B.Q., Tian, Y.H., Song, L., Zhao, J.F., **Hughes, A.**, Yang, Y.Y. (2017) On the ratio of intercellular to ambient CO<sub>2</sub> (ci/ca) derived from ecosystem flux measurements. *International Journal of Biometeorology*. 61. 2059–2071.

Tanalgo, K.C, **Hughes A.C.\*** + (2017) First evidence of the nectarivory of the four – clawed gecko, *Gehyra mutilata* (Wiegmann, 1834) (Squamata: Gekkonidae) on a bat – pollinated Calabash tree (*Crescentia cujete* L.) (Bignoniaceae) in Southcentral Mindanao, Philippines. *Herpetology Notes*. 10. 493 – 496.

Padmanaba, M., **Hughes, A.C.** + Tomlinson. K.W., Corlett, R. T. (2017) Alien plant invasions of protected areas in Java. *Scientific Reports*. 7. 1 – 11.

Tan. Z. H., **Hughes, A.C.**, Sato, T., Zhang, YP., Han, S.J., Kosugi, T., Goulden, M., Deng, X.B., Cao, M., Hao, Z. Q., Hu, Y.H., Yu, G. R., Ma, K.P. (2017) Quantifying forest net primary production: combining eddy flux, inventory and metabolic theory. *iForest – Biogeosciences and Forestry*. 10. 475.

Li, B.V., **Hughes, A.C.**, Jenkins, C.N., Ocampo – Peñuela, N., Pimm, S.L. (2016) Remotely Sensed Data Informs Red List Evaluations and Conservation Priorities in Southeast Asia. *PloS one*. 11. e0160566.

Li, S., **Hughes, A.C.\***, Su, T., Anberrée, J.L., Oskolski, A.A., Sun, M., ... Zhou, Z. (2016) Fire dynamics under monsoonal climate in Yunnan, SW China: Past, present and future. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 465. 168 – 176.

Mohandass, D., **Hughes, A.C.**, Davidar, P. (2016) Flowering and fruiting patterns of woody species in the tropical montane evergreen forest of southern India. *Current Science*. 111. 404 – 416.

Beng, K.C., Tomlinson, K.W., Shen, X.H., Surget – Groba, Y., **Hughes, A.C.**, Corlett, R.T., Slik, F. (2016) The utility of DNA metabarcoding for studying the response of arthropod diversity and composition to land – use change in the tropics. *Scientific Reports*. 6. 24965.

Mohandass, D., **Hughes, A.C.**, Mackay, B., Davidar, P., Chhabra, T. (2016) Floristic species composition and structure of a mid – elevation tropical montane evergreen forests (shola) of the Western Ghats, southern India. *Tropical Ecology*. 57. 533 – 543.

Deng, X.B., Mohandass, D., Katabuchi, M., **Hughes, A.C.**, Roubik, D. (2016) Effects of striped – squirrel nectar – robbing behaviour on reproductive success of *Alpinia roxburghii* Sweet. (Zingiberaceae) in tropical seasonal rainforest of south – west China. *PLoS ONE*. 10. e0144585.

Deng, X., Deng, W., **Hughes, A.C.**, Mohandass, D. (2015) Diverse nectar robbers on *Alpinia roxburghii* Sweet (Zingiberaceae). *Journal of Asia – Pacific Biodiversity*. 8. 238 – 241.

Tan, Z.H., Deng, X.B., **Hughes, A.**, Tang, Y., Cao, M., Zhang, W.F., Zhao, J.F. (2015) Partial net primary production of a mixed dipterocarp forest: Spatial patterns and temporal dynamics. *Journal of Geophysical Research: Biogeosciences*. 120. 570 – 583.

White, R., Sutton, A., Salguero – Gómez, R., Bray, T., Campbell, H., Cieraad, E., Geekiyanage, N., Gherardi, L., **Hughes, A.C.**, Sjøgaard Jørgensen, P., Poisot, T., DeSoto, L. Zimmerman, N. (2015) The next generation of action ecology: novel approaches towards global ecological research. *Ecosphere*. 6art134.

Wilson, M.C., Chen, X.Y., Corlett, R.T., Didham, R.K., Ding, P., Holt, R.D., Holyoak, M., Jiang, L., Hu, G., **Hughes, A.C.**, Laurance, W.F., Liu, J., Pimm, S., Robinson, S.K., Russo, S.E., Si, X., Wilcove, D.S., Wu, J., Yu, M. (2015) Habitat fragmentation and biodiversity conservation: key findings and future challenges. *Landscape Ecology*. 31. 219 – 227.

Kitching, R.L. Nakamura, A., Yasuda, M., **Hughes, A.C.**, Cao, M. (2015) Environmental determinism of community structure across trophic levels: moth assemblages and substrate type in the rain forests of south – western China. *Journal of Tropical Ecology*. 31. 81 – 89.

Mohandass, D., Puyravaud, J.P., **Hughes, A.C.**, Davidar, P., Ganesh, P., Campbell, M. (2014) Edge transition impacts on swamp plant communities in the Nilgiri Mountains, southern India. *Applied Ecology and Environmental Research*. 12. 909 – 929.

Mohandass, D., **Hughes, A.C.**, Campbell, M., Davidar, P. (2014) Effects of patch size on liana diversity and distributions in the tropical montane evergreen forests of the Nilgiri Mountains, southern India. *Journal of Tropical Ecology*. 30. 579–590.

**Hughes, A.C.**, Satasook, A., Bates, P.J.J., Bumrungsri, S., Jones, G. (2012) The projected effects of climatic and vegetation changes on the distribution and diversity of Southeast Asian bats, *Global Change Biology*. 18. 1854 – 1865.

**Hughes, A.C.**, Satasook, C., Bates, P.J.J., Bumrungsri, S., Jones, G. (2011) Explaining the causes of the zoogeographic divide at the Isthmus of Kra: *using bats as a case study*. *Journal of Biogeography*. 38. 2362–2372.

**Hughes, A.C.**, Satasook, A., Bates, P.J.J., Soisook, P., Sritongchuay, T., Jones, G., Bumrungsri, S. (2011) Using echolocation calls to identify Thai bat species: Vespertilionidae, Emballonuridae, Nycteridae and Megadermatidae', *Acta Chiropterologica*. 13. 447 – 456.

**Hughes, A.C.**, Satasook, C., Bates, P.J.J., Soisook, P., Sritongchuay, T., Jones, G., Bumrungsri, S. (2010) Echolocation call analysis and presence – only modelling as conservation monitoring tools for Rhinolophoid bats in Thailand. *Acta Chiropterologica*. 12. 311 – 327.

### Books, Chapters, official reports

United Nations Environment Programme (2022). Mapping Environmental Risks and Socio-Economic Benefits of Planned Transport Infrastructure: A Global Picture.  
<https://wedocs.unep.org/20.500.11822/41376>.

Griffiths., R and **Hughes, A.C.** (2021) In the Way of the Road. The Ecological Impacts of Infrastructure. International Institute for Asian Studies. 978 – 90 – 823810 – 6 – 1 (e)

MacKinnon, J., Yan, X., Tingting, Z., **Hughes, A.C.**, Bleisch, B. (2021) Study to support knowledge and experience sharing of good governance initiatives in preparation of the COP15 under the Convention for Biological Diversity (CBD). Framework contract for the implementation of external aid 2018 lot no. 1 sustainable management of natural resources and resilience. FWC SIEA 2018

Kusch, S., Fleming, A., Cradock – Henry, N., Schmitz, N., Pereira, L., Vogt, J., Lim, M., Kharrazi, A., Evoh, C.J., Hamel, P., Dogra, A., Mukherjee, N., Onzere, S., Mahomoodally, F., **Hughes, A.C.**, Bowen, K., Tironi, A., Smith, K., Hoffenson, S., Udenigwe, C.C. (2016) Sustainability in a changing world: integrating human health and wellbeing, urbanisation, and ecosystem services. UN Policy brief:

<https://sustainabledevelopment.un.org/index.php?page=view&type=111&nr=9490&menu=35>

Corlett, R.T., **Hughes, A.C.** (2014) Mammals in forest ecosystems. In: Peh, K. S. – H., Corlett, R.T., Bergeron, Y. (eds.) *The Routledge Handbook of Forest Ecology*. Routledge, Oxford, UK

Corlett, R.T., **Hughes, A.C.** (2014) Subtropical forests. In: Peh, K. S. – H., Corlett, R.T., Bergeron, Y. (eds.) *The Routledge Handbook of Forest Ecology*. Routledge, Oxford, UK

Jones, K.E., Russ, J.A., Bilhari, Z., Catto, C., Csoz, I., Gorbachev, A., Gyorfi, P., **Hughes, A.**, Ivashkiv, I., Koryagina, N., Kurali, A., Langton, S., Maltby, A., Margina, G., Pandourski, I., Parsons, S., Prokofev, I., Szodoray – Paradi, A., Szodoray – Paradi, F., Taras – Bashta, A., Tilova, E., Walters, C., Weatherill, A., Zavarzin, O. (2013) Monitoring ultrasonic biodiversity: using bats as biodiversity indicators. In: Biodiversity monitoring and conservation: bridging the gaps between global commitment and local action (Eds. Collen, B, P. et al.). Blackwell Press, London.

**Hughes, A.C.** (2012) Mapping a Future for Southeast Asian Biodiversity, Zoology, Maria – Dolores Garcia (Ed.), ISBN: 978 – 953 – 51 – 0360 – 8, InTech, Available from: <http://www.intechopen.com/books/zoology/mapping – a – future – for – southeast – asian – biodiversity>

### Successful Grants and Awards

2021: HKU 100 Scholar

2018: PI 1000 Higher level Talents Grant for Yunnan province 1.5 Million RMB.

2017: PI Karst Conference/workshop organisation grant – CAS. 150K RMB.

Co- PI Xiandao A: Mapping Central Asian Biodiversity to mitigate impacts of the OBOR. 1.5 Million RMB (to my group, of approx. 6 million total).

2016: PI NSFC Yunnan grant: Yunnan Karst: 1.68 Million RMB.

PI CASEABRI: Southeast Asian Karst: 500K RMB.

2015: Co-PI STS Grant: SEABA: *Southeast Asian Atlas of Biodiversity*: 1 Million RMB (to my group approx. 3 million total).

2015: Co-PI CAS135 strategic plan Karst Grant. 1.08 Million RMB (to my group. 6.25 million total)

2014: PI NSFC Research Fellowship for International Young Scientists: 165K RMB.

2013: PI NSFC Research Fellowship for International Young Scientists: 165K RMB.

PI CAS Research Fellowship visiting Young Scientists: 200K RMB.

PI Chinese Academy of Sciences Grant (GJHZ201317) 400K RMB.

2012: Co- PI Bat Conservation International: Conservation grant with Muhammed Mahmood Ul'Hassan, University of Agriculture, Faisalabad, Pakistan: \$5000.

2008. Co- PI PMI2 CONNECT Grant. British Council. £40K.

### Professional Service

#### Editorial positions

**Chief Editor:** Climate Change Ecology 2022-

**Associate Editor:**

Journal of Animal Ecology 2013 – 2018

Diversity and Distributions 2019 –

Ecography 2021 –

BMC Biology 2020 –

Climate Change Ecology 2021-2022

Ambio 2021-

Extinction Prisms 2021-



**Specialist Editor:** Ecosystem Health and Sustainability 2014-  
Checklist 2013 – 2017

**Editor:** Heliyon (Elsevier) 2014-  
Ecotropica 2016-2018  
Frontiers in Forest Science 2018 –

### Board membership positions

Association of Tropical Biology and Conservation (ATBC) Councillor 2014 – 2019  
Asian Society for Conservation Biology (SCB) Training officer 2015 – 2020  
Society for Tropical Ecology (GTOE) 2015 –  
International Network for Next Generation Ecologists (INNGE) 2013 – 2018  
IUCN Leader of the Young Professionals Network of the Commission for Ecosystem  
management & Core member Resilience Theme group 2016 – 2019  
Coalition Wild: Steering committee 2017 – 2019  
ATBC Asia – Pacific Chapter (Secretary 2015 – 2017, Chair 2017 – 2019)  
INTECOL (International Association for Ecology) Secretary General 2017 – 2022,  
President 2022-

### Other positions

Key Person: ALERT (Alliance of Leading Environmental Researchers and Thinkers)  
Executive Secretary General China Biodiversity Conservation and Green Development  
Foundation (CBCGDF)  
Vice – director PFS program for Tropical Field – Studies. 2013 –  
GBIF Data Ambassador 2019 –  
IUCN Commission on Ecosystem Management  
ECR – NON. Founding board member. <http://earlycareerresearchersnetwork.weebly.com/>  
CCICED – Post 2020 Biodiversity framework working group member  
APBON - Working group member

### Plenary/Keynote Conference presentations

**Hughes, A. C.** Sustainable targets for coastal conservation. 2020 Marine Eco-economy  
International Forum. Weihai, China. November 2020

**Hughes, A. C.** Women in Science; understanding and overcoming barriers. OMICs & Global  
Health. Wuhan, China. October 2020

**Hughes, A. C.** Using new tools to better understand biodiversity patterns for conservation and  
monitoring. OMICs & Global Health. Wuhan, China. October 2020

**Hughes, A. C.** Understanding and mitigating the impact of the BRI on biodiversity IEMS Belt  
and Road Conference. Hong Kong, August 2020.

**Hughes, A. C.** Developing conservation and management policies for sustainable development.  
Belt and Road · Phoenix Mountain Forum. Zhuhai. December 2019

**Hughes, A. C.** Understanding patterns of diversity and inherent data biases in global datasets.  
Biodiversity and systematics conference, Taiyuan- August 2019

**Hughes, A.C.** The ecology and evolutionary ecology of Bats. Systematics conference, Beijing,  
December. 2018

**Hughes, A.C.** Challenges and opportunities for conservation on the belt and road. Belt and Road  
Workshop, Duke Kunshan University, October. 2018

**Hughes, A.C.** Understanding the threats and developing priorities for conservation in Southeast Asia., Tropical Biodiversity 2018 Conference, Ipoh, Malaysia, October 2018

**Hughes, A.C.** Mapping biodiversity patterns across Southeast Asia, MAP Conference IBCAS Beijing, September 2018

**Hughes, A.C.** The importance of bats as pollinators in the Oldworld Tropics. Pollinators Conference, Beijing. 2018

**Hughes, A.C.** Importance of bats in the old world tropics and the threats to their future survival. Conference opening **Keynote and Elisabeth Kalko Memorial Lecture.** GTOE Conference, UPMC, Paris. 26<sup>th</sup> -30<sup>th</sup> March

**Hughes, A.C.** Need for Conservation in Southeast Asia. Young Conservation Scientists Conference, Suranaree, Thailand. May 2017

**Hughes, A.C.** Biodiversity conservation in Southeast Asia, Presentation; Conservation of China's Tropical Biodiversity Conference Duke Kunshan China. May 2016

**Hughes, A.C.** Facing Current and future challenges to Southeast Asian Biodiversity, SCCS Beijing, 2014-Beijing Forum October 2014.

**Hughes, A.C.** Climate change and biodiversity in Mountain ecosystems 2014. International Symposium on Mountain Economy, Guiyang, China 2014

### **International Conferences organiser/co-organiser**

Co-Chair: 5th Workshop on Science and Technology Cooperation - *Biodiversity: Global Awareness and Sustainability*, Chiangmai, Thailand. November 2017.

Chair: Association for Tropical Biology and Conservation (ATBC) in XTBG March 2017  
Training coordinator - ATBC in Singapore & Montpellier. June-July 2016

Co-Chair. Thailand research fund-Chinese Academy of Sciences Biodiversity conference. XTBG November. 2016.

Co-organiser: Sustainable Rubber conference, XTBG, October, 2016.

Co-organiser: Conservation Asia Conference NUS Singapore, July, 2016.

Co-organiser: International Biogeography Society (IBS) Conference International Conference Centre, Beijing,

Co-organiser: ATBC Conference, Hawaii, May 2016.

Co-organiser: ATBC-AP Conference, Phnom Penh, Cambodia, March 2015.

Organiser: Conservation on the Borders Conference, XTBG China March 2015.

### **Invited talks and research workshops**

Participated in 18 invited collaborative international workshops in addition to speaking in CBD, RAMSAR, CITES, IUCN and UN Environment Assembly meetings internationally.

Asia-Pacific Biodiversity Observation Network meetings/workshops and China Council for International Cooperation on Environment and Development working group member.

Presented 33 invited seminars (excluding conference presentations) in 29 research institutions and Universities

### **Fieldwork**

From 2003 to the present field-expeditions across the new and old-world tropics including extensive time in Southeast Asia and Latin America, in addition to Australian ecosystems and worked on a variety of taxa

## Languages

Fluent: *English*. Basic: *Thai, Spanish, French and German*.

## Teaching and Fieldcourses

### Fieldcourses coordinated

2013-2020: Annual AFEC-X Advanced Ecology 6 week fieldcourse October-November. Deputy course director, approximately 30-35 PG-level students per year. Four weeks classes, two weeks supervised projects.

2016: SCCS Beijing-chair. 5 day intensive PG-level course in Ecology and conservation. 35 students.

2014 The Ecology of climate change in the Tropics and Subtropics 4 week course June-July. PG-level course. 40 students.

### Teaching (*syllabus and materials available on request*)

- Systematics and Biodiversity; UG course at University of Hong Kong
- University of the Chinese Academy of Sciences 2021+22 “Biodiversity and Conservation” co-course leader. PG-level course, 50 hours total teaching time for 33 students, (*half teaching time to each of two co-course leads*).

Between 2012 – 2019 training courses were run at institutes across Asia on topics including:

- GIS and species distribution modelling (25 courses for UG-PG students, 5 days intensive teaching, approx. 30-40 students per course)
- Macroecology (5 courses, PG, 8 hours, 30-35 students per course)
- Training for trainers (1 PG-course, 12 hours)
- Conservation decision making (9 PG courses, 25-35 students, 6 hour class)
- Bat ecology, evolution and research techniques (8 courses UG-PG students, 2 days each, 30 students per course)
- Bioacoustics (2 courses, UG-PG, 5 hours each)
- Spatial Ecology (4 courses, UG-PG, 30-35 students per course, 8 hours)
- Biogeography (2 courses, UG-PG, 30-33 students, 6 hours)

## Supervision

### *Postdocs*

- Tuanjit Sritongchuay. 2015-2021. Impact of landscape and farm management on pollination networks and pollination services in backyard garden in Yunnan province. *Now an independent research fellow in the Helmholtz institute*
- Catharina Karlsson. 2019-2021. Understanding the interactions between bodysize and climate in Anurans at varying spatio-temporal scales.

- Sreetama Bhandra. 2020-2021. Genome-size and adaptability to global change in Palms. *Now an independent research fellow in the iDiv*
- Ada Chornelia. 2022- Bat biogeography and evolution
- Sedricke Lapuz 2022- OneHealth and conservation

#### ***PhD students***

- Kayzin Than. 2016-2020. Conservation ecology of saltwater crocodiles (*Crocodylus porosus*) in Myanmar — occupancy, population size, habitat connectivity of and factors influencing locals' attitudes on the crocodiles. *Now working for Ministry of Environment, Myanmar.*
- Krizler Tanalgo. PhD + MSc. 2015-2021. Developing scalable approaches for bat conservation in a changing world. *Has won three International top student awards for the Chinese Academy of Sciences.*
- Ada Chornelia. 2016-2022. Conserving bats in southern China and Southeast Asian karst: species distribution, cryptic taxonomy, migration and diet partitioning.
- Sreehari Raman. 2016-2021. Understanding the probable impacts of climate change on bat communities in the Western Ghats, India.
- Nasir Uddin. 2017-2022. Understanding the impacts of Wildlife trade in Bangladesh.
- Zhang Jie. 2022- . The impact of agriculture on microclimate in the Amazon
- Jia Jinlin. 2022- . Topography and microclimate on Mount Kenya
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#### ***MSc students***

- Cao Hui. 2018-2020. The impact of light on bats and seasonal variation in the tropics.
- Ade Prasetyo Agung. 2018-2021. Understanding biogeography and diversity of *Hemiphyllodactylus* in Yunnan.
- Chalermchai Taweesub. 2018-2021. Dietary analysis of Vespertilionids by Metabarcoding and synthesis studies on research trends, significance, and applications of pest-control services.
- Pattaporn Simla. 2019-2022. Effects of invasive plant and landscape composition on pollination community and pollination networks in backyard gardens in Northeast Thailand.

#### ***Co-supervised students***

- Huanhuan Chen. PhD. 2013-2016. Figs, Figwasps and the influence of Climate change.

- Michael Padmanaba. PhD 2013-2016. Understanding the distribution and potential impact of invasive species in Java.
- Cui Qinglan. MSc.2014-2016. Seasonal changes in pollinator abundance in Xishuangbanna.
- Yue Xinke. PhD 2016-2019. Body size and diet-related morphological traits variation of bats in relation to climate change
- Thazin Nwe. MSc. 2017-2020. Understanding the impacts of climate change on species distributions in Myanmar.
- Nirunrut Pomoim. 2016-2021. PhD. Understanding species vulnerability to climate change in Thailand.
- Zongbao Yang. MSc. 2019-2021. The distribution of vulnerable plant species in Xishuangbanna.
- Amadeus DeKastle. 2020- . PhD. Understanding the impacts of the BRI on freshwater invertebrate communities.