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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.

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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>

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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.

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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.

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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.

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Books, Chapters, official reports

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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. 26th -30th 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.