

CATHARINA KARLSSON

catharina@catharinakarllsson.com
catharina.karlsson@u.nus.edu

Swedish, 29/09/1984
www.catharinakarllsson.com
+65 86495128

Advanced user in R programming in statistical ecology from regression and mixed-effect models to network analysis as well as different types of Species Distribution Models. Analyzed datasets including sizes over 1TB using machine learning and Artificial Intelligence based classification, specifically for acoustic and environmental sensor data. Experience of writing R codes for GIS in simulation studies on High Performance Clusters. GitHub user for version control and code sharing. Responsible for multiple projects during the PhD from idea development, grant applications and management to execution and successful delivery with two major ones involving development of a Raspberry Pi based acoustic and environmental sensor based system using Python. Worked as a teaching assistant over four years in Singapore and on a statistical module in the UK as well as mentoring BSc and Masters students on their thesis projects. Capable of carrying up to 20kg up a tropical mountain without complaining.

EDUCATION & QUALIFICATIONS

- 2018 PhD, Biological Science. National University of Singapore
- 2014 MSc. Biology. Uppsala University, Sweden.
- 2011 M.Res. Ecology, Evolution and Conservation. Imperial College London.
- 2010 B.Sc. Hons. Ecology and Conservation. Anglia Ruskin University.

SCHOLARSHIPS AND GRANTS

Recipient of five travel awards for conference attendance, such as the Lu Yinru Travel Scholarship, as well as the CEED/QAECO travel fellowship for a lab exchange to Australia. Current grant success rate is at 57% totalling US\$ 89,280 received throughout the PhD with the most notable grant agencies being Wildlife Reserves Singapore Conservation Fund, National Geographic Society and Mohamed bin Zayed Species Conservation Fund.

CONFERENCE ATTENDANCE

Full list on website

Delivered presentations at seven international conferences. The latest one being a keynote at the Southeast Asian Gateway of Evolution conference (2017) which included organisation of a symposium.

PUBLICATIONS

Full list on website

- Karlsson, E. C. M., Bickford, D., Imbun, P. The effect of habitat variables on occupancy of *Ansonia platysoma* on Mount Kinabalu, Borneo. *Copeia* (submitted for review).
- Karlsson, E. C. M., Mitchell, A. E., Imbun, P., Bickford, D. P., 2017. *Kalophrynus baluensis* (Kinabalu Sticky Frog). Reproduction and vocal description. *Herpetological Review*, 49 (1), pp. 96-97.

EMPLOYMENT EXPERIENCE

- 2013 - 2018 • **Intern** – IUCN ASG Amphibian RLA, red listing of amphibian species,
- 2013 - 2013 • **Field assistant** – Uppsala University, Öland field site, Sweden.
- 2011 - 2012 • **Sales assistant** – Rohan Travel Clothing, Cambridge, UK.
- 2011 - 2011 • **Teaching assistant** – Anglia Ruskin University, Statistical module.