**Zoë Lieb, (+61) 0479 137 154**, z.lieb@uq.edu.au

**Education**

**University of Queensland, School of the Environment, Centre for Biodiversity and Conservation Science**

**PhD Candidate, present**

**University of Kent, Durrell Institute of Conservation and Ecology – Conservation Biology (MSc) - 2019**

*Marks:*First Class Honours \**equivalent to top 10% of class*

*Thesis:*Impact of livestock guardian dogs on livestock predation in rural Mongolia (*published*)

*Relevant highlights:* Emphasis on research methods, GIS, statistics in R, +12 mo fieldwork in Mongolia

**Connecticut College – Dean’s High Honours (BA) - 2013**

*Marks:*3.45 GPA *\*equivalent to top 10% of class*

*Majors: Double* with BA Ecological Biology and BA Anthropology

*Awards:* Butler Award in Anthropology for the ***highest GPA in my year***

*Abroad:* School for Field Studies, Rain Forest Ecology Program*, Queensland, Australia*

**Publications**

**Lieb, Z.E.,** Tumurbaatar, B., Elfström, B., Bull, J. (2021). The impact of guardian dogs on livestock predation in rural Mongolia. *Conservation Science and Practice*, e509:1-11. *\*impact factor 4.12*

Roelfsema, C.M., Lyons, M., Murray, N., Kovacs, E.M., Kennedy, E., Markey, K., Borrego-Acevedo, R., Ordoñez Alvarez, A., Say, C., Tudman, P., Roe, M., Wolff, J., Traganos, D., Asner, G.P., Bambic, B., Free, B., Fox, H.E**., Lieb, Z.,** E. and Phinn, S.R. (2021) Workflow for the Generation of Expert-Derived Training and Validation Data: A View to Global Scale Habitat Mapping. *Frontiers in Marine Science* 8:643381. doi: 10.3389/fmars.2021.643381

**Professional experience**

**GIS Specialist, 2021 through present, National Geographic Society,** Geography & Mapping (Storytelling division)

**Key duties:** Expert support for GIS and conservation projects. Discover innovative solutions to data development and visualization using ArcGIS Online, ArcGIS Pro, and a suite of other GIS tools; consult on a variety of conservation projects to integrate spatial analysis or data collection methods; contribute authoritative, well-researched interactive and static maps to a variety of NGS staff and grantees; provide subject matter expertise on conservation biology and spatial analysis topics

**Key deliverables:** Production of high-quality data visualization products which have been used in media material throughout NGS and at high-profile conferences, with viewership exceeding 1M globally.

**Program Specialist (prev. Project Coordinator), 2020-2021, National Geographic Society**, [Allen Coral Atlas](https://allencoralatlas.org/)

**Key duties:** Strategic field engagement for a high-tech conservation tool; Deliver webinars, training, and online courses to thousands of users and a wide range of audiences; write, edit, and distribute promotional and informational material; adaptively manage a database of thousands of contacts; source and vet data for input into the machine learning mapping tool; form collaborations to test use cases and collect user feedback.

**Key deliverables**: Developing an audience of thousands of users for a new innovative coral reef mapping tool. My team and I got this high-powered coral reef research and conservation planning tool into the hands of reef stakeholders around the world.

**Program Manager– 2016-2018 – Mongolian Bankhar Dog Project**, <https://www.bankhar.org/>

**Key duties:** Spearhead in-country team on exploratory trips, develop complex implementation strategy; collect, compile, and analyze quantitative and qualitative datasets; construct program design & methodology, impact assessment; create and manage an intern program; grant writing (awarded over 70,000 USD in grant funding and crowdsourcing) & financial management of the in-country program.

**Key deliverable**: I developed a data-driven methodology that produced sound evidence in favor of our approach, leading to a led-authored peer-reviewed publication in a Q1 journal. I managed a team to provide over 50 livestock guardian dogs to herders that had experienced livestock predation.

**On-board Marine Observer – 2014-2015 – Saltwater Inc., Shellfish Observer Program**

**Key duties:** Independently conduct at-sea fieldwork and data collection following strict methods; live and work in inclement conditions on board an active fishing vessel; identify dozens of marine fish and invertebrate species; data collection and recording using calipers, deck sheets, captain interviews; measure and assess several thousands of crabs per day.

**Key deliverable**: I delivered well-organized, high-quality data to Alaska Department of Fish and Game at the end of every vessel assignment.

**Grants and awards**

**University of Kent Global Skills Award** – participating in a year-long professional development course (2018-19)

**Zoos Victoria Conservation Grant** – 20,000 AUD, funding for Mongolian Bankhar Dog Project (2017)

**Trust for Mutual Understanding** – 10,000 USD, funding for Mongolian Bankhar Dog Project (2016)

**University of Kent Research Funding** – 2,000 GBP, funded research project (2019)

**Career ambitions**

I’m a passionate and seasoned conservation scientist and program manager excited to pursue a PhD as a progression of my applied science career. My curiosity in the natural world, affinity for science and problem-solving, and motivation to engage in topics that address major ecological challenges had led me to myriad experiences in ecological data collection, remote fieldwork, resource management, conservation implementation, scientific research and writing, and geospatial visualization. I’ve had deep connection to Queensland since my study abroad program (School for Field Studies) at a remote research centre the remnant old growth rainforests near Yungaburra. I’m excited to return to this amazing region to continue my study of ecology.

**Other relevant skills**

* Organism ID
* Camera trap expeditions & placement (Field expedition with WWF-Mongolia, Spring 2017)
* Statistical analysis (e.g. Lieb et al. 2021)
* Science communication, developing training tools and courses
  + [Carnivore Damage Prevention](about:blank) News – authored an article and my photography is featured throughout the issue
  + [Allen Coral Atlas Blog](https://allencoralatlas.org/blog/) – authored and edited several blog entries for Allen Coral Atlas
  + [Webinars and Media – Allen Coral Atlas](https://allencoralatlas.org/resources/) – developed, edited, and presented on each featured webinar
  + [Remote Sensing and Mapping for Coral Reef Conservation](https://reefresilience.org/remote-sensing-and-mapping-for-coral-reef-conservation/) – co-authored 3-chapter online course