

ASHLEY Y. BAE

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ABOUT ME

I wish to leverage my interdisciplinary research, analytics, and project-oriented background to drive actionable solutions in sustainability. I enjoy fast-paced work environments where I have ample room to grow, and where teamwork and detail are paramount. I am passionate about a circular economy, food and water sustainability, all alliterations & the outdoors.

EDUCATION

University of California, Santa Cruz Sept 2018 - TBD | Santa Cruz, CA

PhD Student, Environmental Studies | Advisor: Prof. Anne Kapuscinski

Columbia University | The Earth Institute Aug 2017 - Oct 2018 | New York, NY

Master of Arts, Climate & Society; GPA 3.9

- Classes in: Circular Economy, Life Cycle Analysis, Finance & Sustainability, Climate Science, Corporate Sustainability, Innovative Sustainability Leadership, Food Ecology & Globalization

University of St. Andrews Aug 2012 - Jun 2017 | St. Andrews, Scotland

Bachelor of Science, Biology (Honours); gap year Jun 2015 - Aug 2016, see RESEARCH

- Dissertation: "Catch composition of an artisanal, data-deficient coral reef fishery in the Philippines" (2017)

RESEARCH & WORK EXPERIENCE

Summer Fellow, Office of CA Gov. Jerry Brown Jul - Sept 2018 | San Francisco, CA

Global Climate Action Summit (12-14 Sept. 2018) | Challenge Area 5: Transformative Climate Investments

- Planned climate finance-related agenda in a team of four; worked with BSR and Ceres to develop topic priorities
- Participated in weekly meetings to coordinate & facilitate speaker engagement and events in a team of five

Climate Adaptation Intern Jun - Sept 2018 | Washington, DC

World Bank Group (WBG) - Climate Change Group | Data, Tools & Methods Team

- **(Launched Dec. 2018 @COP24)**: Mapped internal resources for the Climate Adaptation & Resilience Strategy
- **(Launching late 2019)**: Wrote country-level climate profiles for the updated Climate Change Knowledge Portal 2.0

Textbook Content Editor Oct 2017 - Oct 2018 | New York, NY

Columbia University | International Research Institute for Climate & Society

- **(Published Sept. 2018)** Edited and created content new "Climate Information for Public Health Action" textbook

Product Data Analyst Jan - May 2018 | New York, NY

CoClear Consultancy x Columbia University Net Impact

- **(Update Feb. 2019)**: Work contributed to CoClear's online Carbon Catalogue, the world's first data visualization of product-level carbon footprints. Scientific peer-reviewed journal article and full report to be published 2019.
- Analyzed 2016-17 product lifecycle data, including CPGs, from CDP's Supply Chain Program with six peers
- Liaised directly with the CEO of CoClear & produced weekly deliverables via written content and graphics

Sustainable Fisheries Fieldwork Aug 2016 | El Nido, Palawan, Philippines

Data analyzed for University of St. Andrews dissertation

- Documented rural, small-scale coral reef fishery landings and analyzed subsistence catch data
- Worked with municipalities, NGOs and fishers to evaluate local consumption, resource management and policies

Data Analyst & Research Assistant

Dartmouth College, Dept. of Environmental Studies

Feb 2016 - Oct 2018 | Hanover, NH

- Investigated sustainable replacements for industrial aquaculture feed and fish gut microbiome under diet shifts

Harvard University, Dept. of Organismic & Evolutionary Biology

May 2012 - Dec 2015 | Cambridge, MA

- Led experiments and analyzed data on competition within insect-plant mutualisms; extensive greenhouse work
- Fieldwork: Observational studies in Brisbane & Ebor, Australia

University of St. Andrews, Dept. of Biology

Mar 2015 | Haifa, Israel

- Fieldwork: Observational studies on bee-flower pollination networks

Scottish Oceans Institute

Jun - Aug 2014 | St. Andrews, Scotland

- Awarded the British Society for Developmental Biology Studentship for research on planarian eye regeneration

LEADERSHIP & PUBLICATIONS

Sarker, P.K., Kapuscinski, A.R., **Bae, A.Y.** et al. **2018**. Towards sustainable, fish-free aquafeeds: Evaluating substitution of fishmeal with lipid-extracted microalgal (*Nannochloropsis oculata*) biomass in diets of juvenile Nile tilapia (*Oreochromis niloticus*). *PLOS ONE*. <https://doi.org/10.1371/journal.pone.0201315>

Author, "The Painted Tea Set," YouthInkWell Publishing, ISBN: 978-0-9773451-9-9 2007 | California

- Raised 80,000USD from book sales and donations. All profits were used to build eight water wells in Ethiopia and Uganda to provide local, potable water to thousands of families.

SKILLS

Computer: Programming - R, MatLab; Life Cycle Analysis; Microsoft Office; Adobe - Photoshop, InDesign

Languages: English (Fluent); Korean, Spanish, Tagalog (Conversational)