

ANNA CALLE

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EDUCATION

Master of Environmental Science and Management (June 2020)

Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)

Specialization: Conservation Planning | Focus: Environmental Data Science

Bachelor of Science in Environmental Studies (June 2018)

University of California, Santa Barbara (UCSB)

Minor: Statistical Science

MASTER'S GROUP PROJECT

Assessing Brazil's Marine Aquaculture Potential (4/19–4/20)

Client: World Wildlife Fund (WWF)

- ❑ Created an offshore mariculture suitability model for Brazil encompassing spatial, productivity, and economic components.
- ❑ Developed a [mapping web-based tool](#) using R that can assist with aquaculture planning strategies and can be adapted to other regions across the globe.

RESEARCH EXPERIENCE

Junior Researcher for the Galapagos Verde 2050 Program (7/22–Present)

Charles Darwin Foundation, Galapagos, Ecuador

- ❑ Conduct research on ecological restoration in the Galapagos, focusing on water-saving technologies, the use of reference ecosystems, and the recovery of endangered flora.
- ❑ Write the "Restoration Plan for Baltra, Plaza Sur, Española, and Isabela Norte (2025-2029)."
- ❑ Write grant proposals to secure funding. Two successful grants from the Stanley Smith Horticultural Grant and the Friends of the Galapagos Islands Switzerland
- ❑ Engage in community outreach and education initiatives including workshops and presentations

Research Assistant for the Galapagos Verde 2050 Program (10/20–6/22)

Charles Darwin Foundation, Galapagos, Ecuador

- ❑ Conducted germination trials with endangered plant species endemic to the Galapagos.
- ❑ Propagated, planted, and monitored 50+ native/endemic species to restore 90+ study sites in 7 islands.
- ❑ Co-developed a web-based app to facilitate restoration activities using R and Shiny ([RestoR](#))
- ❑ Wrote research papers, technical reports, donor reports, blogs, and social media posts.

ENVIRONMENTAL EXPERIENCE

Climate Change Mitigation, Agroforestry, and Forest Conservation Intern (6/19–9/19)

Yakum, Tena, Ecuador

- ❑ Mapped reforestation plots and community resources in 4 indigenous communities using QGIS.
- ❑ Assisted in planning, budgeting, and writing of two successful proposals that funded 2 ha reforestation projects in two indigenous communities.
- ❑ Conducted nursery and planting work of native hardwoods and fruit trees with indigenous communities.

Snowy Plover Docent (10/15–8/16 and 7/18–3/19)

Coal Oil Point Reserve (COPR), Santa Barbara, CA

- ❑ Educated visitors about conservation efforts at COPR to protect the Western Snowy Plover; provided information on natural history, population status and biology of snowy plovers.
- ❑ Recorded observations on beach usage, interactions with visitors, and disturbance of the plovers.

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ENVIRONMENTAL EXPERIENCE [Continued]

Seabird Habitat Restoration Intern (8/17)

California Institute of Env. Studies, Channel Islands National Park, CA

- ☐ Removed non-native plant species in restoration plots using manual and chemical control.
- ☐ Carried out nursery production tasks for 10+ native species including seed germination, seedling care, and planting in their natural habitat.

Restoration Intern (4/17–9/17)

Coastal Fund and Storke Ranch Homeowners Association, Santa Barbara, CA

- ☐ Improved 10 acres of degraded wetland ecosystem under the guidance of a conservation biologist; controlled invasive plants and enhanced populations of native plants.
- ☐ Conducted quadrat sampling to determine composition/abundance of plant species in vernal pools.
- ☐ Identified 50+ native and non-native plants present in wetland habitats in California.

Nancite Sea Turtles Conservation and Research Program Volunteer (6/16)

Int'l Student Volunteers, Santa Rosa National Park, Costa Rica

- ☐ Monitored and registered data on nesting sea turtles; attached flipper tags for sea turtle identification.
- ☐ Recorded data on sea turtle carcasses predated by jaguars including geographic location.

ACADEMIC EXPERIENCE

Statistics for Life Sciences Teaching Assistant (9/19–12/19)

UCSB, Santa Barbara, CA

Taught weekly laboratories and classroom discussions for two sections of 25 students each.

COURSES & CERTIFICATIONS

- ☐ **Certified Ecological Restoration Practitioner in Training (CERPIT)**, Society for Ecological Restoration, (6/2024)
- ☐ **Accredited Researcher REG-INV-23-06766**; Secretariat of Higher Education, Science, Technology and Innovation (SENESCYT); Ecuador (8/2023)
- ☐ **Open Water Diver Certification**, PADI (5/2023)
- ☐ **XI Latin-American Conservation Biology Course**, Consorcio Latinoamericano de Biología de la Conservación, Yasuní Biosphere Reserve, Ecuador (10/2022)
- ☐ **Care and Management of Natural History Collections Course**, Transmitting Science (9/2022)
- ☐ **Global and Regional Assessor of the IUCN Red List Certificate**, The Nature Conservancy (3/2022)

CONFERENCES & SEMINARS

Presenter, “Restauración de Zonas de Vegetación Árida en la Isla Baltra de las Galápagos.” Foro Virtual Internacional de Bosques Secos Tropicales, Ecuador (5/2024)

Presenter, “Galapagos Verde 2050: Rescuing Galapagos Threatened Flora” Murdoch University. Perth, Western Australia (9/2023)

Presenter, “Integrating ecological restoration and endangered species recovery to save three plant species from the *Lecocarpus* genus, endemic to the Galapagos” 10th World Conference on Ecological Restoration. Society of Ecological Restoration. Darwin, Australia (9/2023) (funded).

Presenter, “Galápagos Verde 2050: Avances en la restauración ecológica de una especie endémica en peligro de extinción, *Lecocarpus lecocarpoides*, en la isla Española.” XLV Jornadas Nacionales de Biología 2021. Escuela Politécnica Nacional. Quito, Ecuador (11/2021)

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PUBLICATIONS

Anna Calle-Loor, Patricia Jaramillo Díaz (2024). Advancing Conservation Strategies for Endangered *Lecocarpus lecocarpoides*: Insights from Ex situ Plant Propagation. *Endangered Species Research*

Nicolás Velasco, **Anna Calle-Loor**, Patricia Jaramillo Díaz (2024). Defining large-scale arid island vegetation recovery targets through evaluating a reference ecosystem within an archipelago extent. *Restoration Ecology*.

Patricia Jaramillo Díaz, **Anna Calle-Loor**, Nicolas Velasco and David Cevallos (2023). Water-Saving Technologies in Galapagos Agriculture: A Step Towards Sustainability. *Horticulturae*

Patricia Jaramillo, **Anna Calle-Loor**, Ekaterina Gualoto, Luka Negoita, Carlos Bolaños, David Cevallos (2022). Adoption of sustainable agriculture practices through participatory research: A case study on Galapagos Island farmers using water-saving technologies. *Plants*

TECHNICAL REPORTS

Jaramillo, P., **Calle-Loor, A.**, Enríquez-Moncayo, P., Velasco, N., Román, A. C, Betancourt-Cargua, L., Villafuerte, T. & Villalba-Alemán, J. (2023). Amenazas para *Galvezia leucantha* subsp. *leucantha* (Plantaginaceae: Lamiales) - Evaluación de la composición vegetal y de invertebrados terrestres en Playa Tortuga Negra (Isabela Norte). Fundación Charles Darwin. Puerto Ayora, Galápagos, Ecuador.

Jaramillo, P., Enríquez-Moncayo, P., **Calle-Loor, A.**, Mayorga, P., Cárdenas, D. & Sevilla, C. (2023). Galápagos Verde 2050: procedimientos y técnicas de Laboratorio para el aislamiento e identificación de hongos asociados a semillas y rizosfera de *Lecocarpus lecocarpoides* subsp. *lecocarpoides*. Fundación Charles Darwin. Puerto Ayora, Galápagos, Ecuador.

Calle-Loor, A., Negoita, L., Jaramillo, L., Mayorga, P., Mahtani, S., Sevilla, C., & Jaramillo Díaz, P. (2021). Galápagos Verde 2050: Seymour Norte como ecosistema de referencia para restaurar Baltra. Fundación Charles Darwin. Puerto Ayora, Galápagos, Ecuador.

Enríquez-Moncayo, P., **Calle-Loor, A.**, Mayorga, P., Sevilla, C., & Jaramillo, P. (2021). Galápagos Verde 2050: Caracterización e identificación de los hongos asociados a las semillas y a la rizósfera de *Lecocarpus lecocarpoides* en Punta Manzanillo, isla Española en el Archipiélago de Galápagos. Fundación Charles Darwin. Puerto Ayora, Galápagos, Ecuador.

SKILLS & ACTIVITIES

Computer: R, R Markdown, R Shiny, ArcGIS, QGIS, html and CSS (basic), JavaScript, Tableau, git

Fieldwork: vegetation surveys, collection of herbarium specimens, GPS, camera traps, temperature loggers (iButtons), rain loggers

Language: English and Spanish

Communication: Strong writing and presentation skills; completed Writing for Env. Professions course

Professional memberships: Society for Ecological Restoration (2023–Present), Galapagos' Plants Specialists Group from the IUCN's Species Survival Commission (2022–2025), National Society of Leadership and Success (NSLS) (9/15–Present)

AWARDS

Nominated to the Lab Hero Awards, Hello Bio Inc (2023)

\$1000 NSLS Alumni Award (2020)

President's Volunteer Service Award (100+ volunteer hours in 2016)

\$250,000 Scholarship from Ecuador's SENESCYT (2014)