

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

- Participated in two vegetation surveys on a degraded island (Baltra) and its reference ecosystem (North Seymour), later analyzing the data to define restoration targets.
- Assisted in planning and delivering a native garden contest for the community members of Puerto Ayora, including two workshops, progress visits, and an award ceremony.
- Supervised 17 volunteers in seed viability and germination experiments with endemic plant species.
- Secured funding through successful grant proposals, obtaining two grants from the Stanley Smith Horticultural Grant and Friends of the Galapagos Islands Switzerland.

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

Charles Darwin Foundation, Galapagos, Ecuador

- Conducted germination trials with *Lecocarpus lecocarpoides*, an endangered shrub endemic to the Galapagos.
- Propagated, planted, and monitored 50+ native/endemic species to restore 90+ study sites in 7 islands.
- Contributed to remodeling an interpretative space by developing content for bilingual informational panels.
- 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.

TEACHING 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

- **Leadership Training Workshop**, Universidad San Francisco de Quito, Galapagos (11/2024)
- **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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JOURNAL ARTICLES

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

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

Jaramillo Díaz, P., **Calle-Loor, A.,** Velasco, N., Cevallos, D. (2023). Water-Saving Technologies in Galapagos Agriculture: A Step Towards Sustainability. *Horticulturae*.

Jaramillo Díaz, P., **Calle-Loor, A.,** Gualoto, E., Negoita, L., Bolaños, C., Cevallos, D. (2022). Adoption of sustainable agriculture practices through participatory research: A case study on Galapagos Island farmers using water-saving technologies. *Plants*.

BOOKS

Jaramillo Díaz, P., Velasco, N., **Calle-Loor, A.,** De Roy, T. (in prep). Flora nativa y endémica de las islas Galápagos: Guía de propagación. Charles Darwin Foundation, Puerto Ayora, Galápagos-Ecuador.

Jaramillo Díaz, P., Velasco, N., Chirman, D., **Calle-Loor, A.** (2024). Ecological Restoration and Species Recovery Plan for Baltra, South Plaza, Española, and North Isabela 2025-2029. Charles Darwin Foundation, Puerto Ayora, Galápagos-Ecuador.

TECHNICAL REPORTS

Jaramillo Díaz, 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 Díaz, 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 Díaz, 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, [GitHub](#)

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

Language: English and Spanish

Science Communication: Completed Writing for Environmental Professions course. Experience delivering VIP and donor talks, conference presentations, cruise ship lectures, and workshops for students, docents, and park rangers.

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)

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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)