



Julian Olaya Restrepo

Postdoctoral Scholar, Biology

 Curriculum Vitae available Online

Bio

BIO

Julián's (he/his) research seeks to understand and strengthen the relationships between marine ecosystems, the communities that depend on them, and the policies that shape their management. Positioned at the intersection of ecology, spatial analysis, and social science, his work produces actionable insights to support the conservation and sustainable governance of marine systems. He approaches the ocean as a socioecological system—an integrated network where natural and human components co-evolve—and applies a transdisciplinary lens to address urgent global challenges, including biodiversity loss, fisheries collapse, and climate change. At Stanford University, he has led research on nature-based solutions, developing spatially explicit fishery models that assess how coral reef and mangrove restoration can enhance ecological resilience and improve fisheries outcomes for coastal communities across the Caribbean and U.S.

STANFORD ADVISORS

- Gretchen Daily, Postdoctoral Faculty Sponsor

Research & Scholarship

RESEARCH INTERESTS

- Data Sciences
- Research Methods
- Science Education

Publications

PUBLICATIONS

- **Networks of interactions between Marine Protected Areas and their effects on the conservation of the South American sea lion and the Southern right whale in the Western South Atlantic Ocean.** *Journal of environmental management*
Oliveira do Nascimento, L., Zapelini, C., Olaya-Restrepo, J., Cinti, A., Chalar, G., Machado, R., Schiavetti, A.
2025; 392: 126679
- **AI-based coral species discrimination: A case study of the *Siderastrea* Atlantic Complex** *PLOS ONE*
Barbeitos, M., Perez, F., Olaya-Restrepo, J., Winter, A., Florindo, J., Laureano, E.
2024; 19 (12): e0312494
- **Environmental, social, and management aspects in a hotspot: Interaction networks between marine protected areas** *OCEAN & COASTAL MANAGEMENT*
Zapelini, C., de Souza, D., de Santana, R., Olaya-Restrepo, J., Schiavetti, A.
2024; 251