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Ph.D. Candidate, Biology Second Year ARCS Scholar Herz Global Impact Award

Georgia Medical Control of the Contr

Shifts in coral-algae-herbivore interactions in Mo'orea, French Polynesia

Fish provide a variety of direct and indirect benefits to corals and reef organisms.



Critically, herbivorous fish can remove turf algae that might overgrow or kill corals.

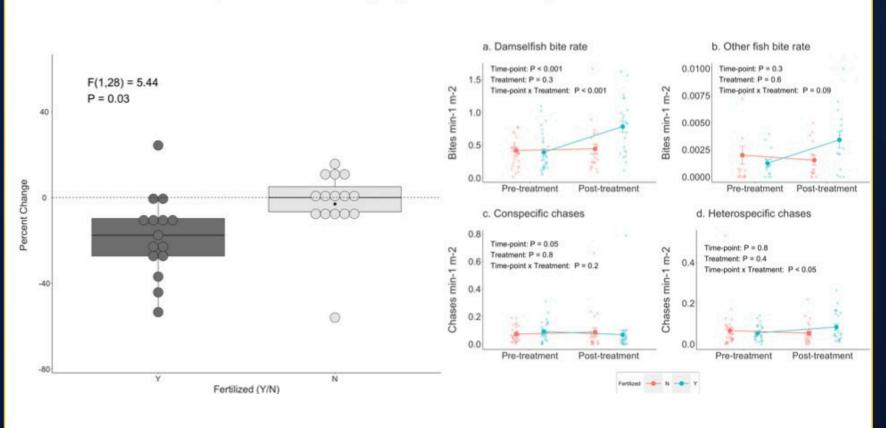


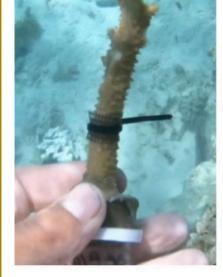
I use farming damselfish as a study system to understand how coastal stressors affect fish behavior and fish health.





Damselfish defend smaller territories more aggressively if nutrient input increases (e.g. from runoff).













- produce chemicals that are toxic to corals,
- some corals are more sensitive to these chemicals, and
- the impacts were worse in the summer!



Moving forward, I plan on testing how removing damselfish from territories (e.g. due to predation or a reduction in territory size) affects corals that settled in those territories, their interactions with turf, and ultimately alter trajectories of reefs.

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