

ANASTASIA C. E. QUINTANA

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EDUCATION

- 2020 **Duke University**, Durham, NC
PhD, Marine Science and Conservation (expected May 2020)

Dissertation: “Fish Refuges for fish or people? Challenges and strategies for collective action in temporary fisher-designed marine reserves in Mexico with the potential to adapt to climate change”

Committee: Dr. Xavier Basurto (chair, Duke University), Dr. Lisa Campbell (Duke University), Dr. Grant Murray (Duke University), Dr. Noella Gray (University of Guelph), and Dr. Björn Vollan (Philipps-Universität Marburg)
- 2014 **University of California Santa Barbara**, College of Creative Studies, Santa Barbara, CA
BA, *summa cum laude*, Biology, June 2014
Dean’s Honors 2010-4, Honors Program 2010-4

AREAS OF PROFESSIONAL EXPERTISE

Common pool resource theory
Collective action and resource dilemmas
Social-ecological systems and resilience theory
Conservation and development in the Global South
Mixed social science methods
Fisheries anthropology
Small-scale fisheries
Political ecology

PUBLICATIONS

- 2019 **Quintana, A.C.E.** and Campbell, L., 2019. “Critiques of common-pool resource theory: A typology”. *International Journal of the Commons*. In press.
- 2017 Garcia-Vedrenne, A.E., **Quintana, A.C.E.**, DeRogatis, A.M., Dover, C.M., Lopez, M., Kuris, A.M. and Hechinger, R.F., 2017. “Trematodes with a reproductive division of labour: heterophyids also have a soldier caste and early infections reveal how colonies become structured.” *International journal for parasitology*, 47(1), pp.41-50.
- 2016 Garcia-Vedrenne, A.E., **Quintana, A.C.E.**, DeRogatis, A.M., Martyn, K., Kuris, A.M. and Hechinger, R.F., 2016. “Social Organization in Parasitic Flatworms—Four Additional Echinostomoid Trematodes Have a Soldier Caste and One Does Not”. *Journal of Parasitology*, 102(1), pp.11-20.

In review

- 2019 **Quintana, A.C.E.**, Basurto, X., Rodriguez-Van Dyck, S., and Weaver, A. H. “More than a fisher”: Can an ecological monitoring program involving fishers transform participants? In review, *Biodiversity and Conservation*.

- 2019 **Quintana, A.C.E.** Marcos, S., Malpica-Cruz, L., Tamayo, L., Canto Noh, J.A., Fernandez, F., and Fulton, F. “Managing fisheries for unsustainability: Small-scale fishers as solutions to invasive species?” In review, *Fish and Fisheries*.

In preparation

Quintana, A.C.E. and Basurto, X. “A property rights approach to understanding outcomes from comanaged no-take zones in fisheries.” In preparation for *Conservation Science & Practice*.

Quintana, A.C.E. Gray, N., Campbell, L., Murray, G., and Basurto, X. “Implementing weakly defined marine reserves facilitates collective action in Mexico”. In preparation for *Global Environmental Change*.

Quintana, A.C.E., Gray, N., Campbell, L., Murray, G., and Basurto, X. “NGOs translate between conflicting knowledge paradigms in co-managed marine reserves”. In prep for *Society and Natural Resources*.

Giron-Nava, J.A., **Quintana, A.C.E.**, Elsler, L., and Stefanski, S. “Local cooperative functionality protects fisheries from international market pressure”. In prep for *Proceedings of the National Academy of Sciences*.

Quintana, A.C.E., Giron-Nava, J.A., Urmy, S., and Cramer, A. “Is there a sweet spot for marine protected area size for social-ecological effectiveness?” In prep for *Ecology and Society*.

Song, A. and **Quintana, A.C.E.** “Governmentality and agency in small-scale fisheries: A comparison of cases in South Korea and Mexico”. In prep for *Political Geography*.

PRESENTATIONS AND POSTERS AT SCIENTIFIC CONFERENCES

- 2019 **Quintana, A.C.E.** 2019. “Are unclear goals better for environmental policy?” Annual GradX Talks, April 1, 2019, Durham, NC. *Oral presentation*.
- 2019 **Quintana, A.C.E.** and Basurto, X. 2018. “Legal but not legitimate: The paradox of knowledge in Mexican fisheries co-management.” North Carolina Conference on Latin American Studies. February 22-24, 2019, Chapel Hill, NC. *Oral presentation*.
- 2018 **Quintana, A.C.E.** Gray, N., Campbell, L., and Basurto, X. 2018. “Weakly defined MPAs make space for small-scale fishers to pursue own interests.” 3rd World Small-Scale Fisheries Congress. October 22-26, 2018, Chiang Mai, Thailand. *Oral presentation*.
- 2017 **Quintana, A.C.E.**, A.H. Weaver, S. Rodriguez, and X. Basurto. 2017. “Local ecological knowledge, participation, and legitimacy: Effects of an ecological monitoring program in a Mexican small-scale fishery.” Practicing the Commons, XVI Biennial International Association for the Study of the Commons (IASC) Conference, July 10-14, 2017, Utrecht, the Netherlands. *Oral presentation*.
- 2017 **Quintana, A.C.E.**, A.H. Weaver, S. Rodriguez, and X. Basurto. 2017. “Buzos Monitores are not environmental subjects: Results from a community-based ecological monitoring project for fishers in Baja California, Mexico.” Centre for Maritime Research (MARE) Conference IX People and the Sea, July 5-7, 2017, Amsterdam, the Netherlands. *Oral presentation*.
- 2017 **Quintana, A.C.E.** 2017. “Storytelling and science.” North Carolina Marine and Coastal Science Symposium (NC MarCo), March 31, 2017, Beaufort, NC. *Oral presentation*.
- 2015 **Quintana, A.C.E.** 2015. “Why parasites are fascinating and not horrifying.” Annual GradX Talks, March 24, 2015, Durham, NC. *Oral presentation*.

- 2014 Garcia-Vedrenne, A.E., **Quintana, A.C.E.**, Kuris, A.M., Hechinger, R.F. 2014. "Reproductive division of labor in the Trematoda: A systematic evaluation of sociality in the community of trematodes that infect the California horn snail, *Cerithidea californica*." American Society of Parasitology Annual Meeting 2014, July 24-27, 2014, New Orleans, LA. *Poster*.
- 2013 **Quintana, A.C.E.**, Garcia-Vedrenne, A.E., Hechinger, R.F., Kuris, A.M. 2013. "Trematodes of the California horn snail: some have social organization with reproductive division of labor, others do not." Western Society of Naturalists, November 7-10, 2013, Oxnard, CA. *Oral presentation*.

FELLOWSHIPS AND SCHOLARSHIPS

- 2019-20 Anne Firor Scott Public Scholars Fellowship, \$23,850, Forum for Scholars and Publics, 2019-2020
- 2019 Bass Instructional Fellowship, \$11,925, Anne T. and Robert M. Bass Endowment Fund for the Bass Undergraduate Instructional Program, fall 2019
- 2018-9 Marine Lab Endowment Fellowship, \$65,772, Duke University Marine Lab, 2018-2019
- 2017-9 Graduate Student Pursuit Fellowship, \$3,000, National Socio-Environmental Synthesis Center (SESYNC), 2017-2019
- 2017-8 James B. Duke International Research Travel Fellowship, \$26,912, Duke University Graduate School, 2017-2018
- 2017 Summer Research Fellowship Award, \$5,500, Duke University Graduate School, summer 2017
- 2013 Stansbury Fellowship, \$5,000, University of California at Santa Barbara, 2013
- 2010-4 Regents Scholarship, \$24,000, University of California, 2010-2014

RESEARCH EXPERIENCE

Duke University, Durham, NC

- 2016 **Research Assistant**, X. Basurto, NSF CNH Award #1632648 (qualitative study design, interviews of fishers and families, analysis), Baja California Sur, Mexico
- 2015 **Graduate Research Assistant**, X. Basurto, NSF CNH Award #1632648 (literature review of local ecological knowledge), Durham NC
- 2014 **Research Assistant**, Mexico: E. Clark (translator for semi-structured interviews)

University of California at Santa Barbara, Santa Barbara, CA

- 2013-4 **Student Researcher**: A. Kuris (parasite dissections, slide prep, microscope photography)
- 2013 **Stansbury Research Fellow**, A. Kuris (parasite dissections, slide prep, microscope photography)
- 2011-2 **Student Intern**, S. Teck (urchin dissections, preparation of histology samples)

INTERNATIONAL FIELDWORK EXPERIENCE

Costa Rica (Guanacaste), Spain (Catalunya), Turks and Caicos (South Caicos), Mexico (Baja California Sur, Sonora, Quintana Roo)

TEACHING EXPERIENCE

Teaching Assistant, Duke University, Durham NC

Graduate courses

- 2016 Marine Climate Change (3 semester units), Spring 2016.
- 2014 Marine Policy (3 semester units), Fall 2014

Mixed graduate and undergraduate courses

- 2017 Community-Based Conservation in the Gulf of California (international field course, 3 semester units), Spring 2017
2015 Biological Oceanography (4 semester units), Fall 2015

Formal student mentoring

2018-9 **Bass Connections project, “Ocean Evidence Gap Map”** with Duke University and World Wildlife Fund. Duke Marine Lab: Beaufort, NC. Fall 2018-Spring 2019.

Role: Train, mentor, and manage team of 4 undergraduate and Masters students to conduct systematic literature review for gap map using Colandr software.

Teaching courses and additional training

- 2014-19 **Certificate in College Teaching Program**, Duke University: Durham, NC, Fall 2014-Spring 2019
Duke program in college teaching; includes formal classes, teaching experience, and peer evaluations
- 2019 **Teaching Triangles Guest Lecturer**, 7 hours of instruction, Deep-Sea Science and Environmental Management, Duke Marine Lab, Spring 2019
- 2019 **College Teaching and Course Design** (2 unit course), Duke University: Beaufort, NC. 2019
- 2017 **Gender and Sexual Diversity Training**, Duke Women’s Center, Beaufort, NC, January 19, 2017
- 2016 **Facilitating Student Learning** (2 unit course), Duke University: Durham, NC. Fall 2016
- 2015 **Research Educator Exchange Forum (REEF) 2015**: Center for Ocean Sciences Education Excellence (COSEE), North Carolina State University, Raleigh, NC, January 23-24, 2015

INTERDISCIPLINARY SOCIAL-ECOLOGICAL COLLABORATIONS

- 2018-9 **Graduate Team Member, “Ocean Evidence Gap Map”**, Bass Connections Project, Duke Marine Lab and World Wildlife Fund (WWF): Duke Marine Lab, Beaufort, NC: August 2018-April 2019
- 2018 **Fellow, Eco-DAS 2018** (Ecological Dissertations in the Aquatic Sciences), Competitive biennial interdisciplinary workshop, October 15-20, 2018, University of Hawai‘i, Manoa, Honolulu, HI
- 2017-8 **Graduate Pursuit Fellow, SESYNC** (National Socio-Environmental Synthesis Center), Annapolis, MD. “Cross-scale exploitation patterns and marine population collapse in international seafood markets”
- 2016-8 **Research Assistant, NSF CNH Project** (National Science Foundation Dynamics of Coupled Natural-Human Systems Program), Award #1632648, “Resilience and Adaptive Capacity of Small-Scale Fishing Communities and Coastal Marine Ecosystems to Environmental and Economic Variability” (\$1,790,687)
- Roles: Research assistant (summer 2016, summer 2017, fall 2017), workshop participant (November 2016, August 2018)

SERVICE

Peer Reviewer

International Journal of the Commons
Journal of Society & Natural Resources
Journal of Institutional Economics

University

- 2018-9 **Duke Marine Lab Graduate Student Representative**, Duke Marine Lab: Beaufort, NC
2016-7 **Van Dover Inclusive Graduate Education Travel Award coordinator**, Duke Marine Lab: Beaufort, NC.
2015-7 **Duke Marine Lab Seminar Series Organizer**, Duke Marine Lab: Beaufort, NC
2013-4 **UC EAP “Global Ambassador”**, University of CA Education Abroad Program: Santa Barbara, CA
2012-3 **Aquarist**, Research Experience and Education Facility (REEF), UCSB: Santa Barbara, CA

Community

- 2015-9 **Co-founder**, Girls Exploring Science and Technology (GEST), Duke Marine Lab, Beaufort, NC: November 2015 – ongoing (annual one-day event)
2017 **Volunteer English teacher**, Puerto de Agua Verde, BCS, Mexico: Oct 2017 - Dec 2017
2016-7 **Organizing Committee: Logistics, Donations, and Advertising Coordinator**, SciREN (The Scientific Research and Educator Network), North Carolina Aquarium at Pine Knoll Shores, Pine Knoll Shores, NC, Nov 2016 – Feb 2017
2015 **Project and Event Manager**, Community Food Lab, Raleigh, NC, January – May 2015
2015 **Judge**, Blue Heron Bowl (National Ocean Sciences Bowl), UNC-CH, Chapel Hill, NC, 7 Feb 2015.
2014-5 **Mentor**, Women and Math (WAM) Mentoring Program, Durham, NC, October 2014-May 2015

PROFESSIONAL MEMBERSHIPS

- 2016-9 International Association for the Study of the Commons *2016-2018*
2014-5 American Society of Parasitologists *2014-2015*

ADDITIONAL SKILLS

Software: Tableau, Colandr, NVivo, Qualtrics, SurveyMonkey, JMP, WordPress, Bookwright, Sketch, Adobe Photoshop, Beautiful[AI]

Languages: Spanish (fluent), French (basic)