

SEBASTIAN TAPIA LEWIN

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PhD Student

Bren School of Environmental Science & Management
University of California, Santa Barbara

EDUCATION

PhD in Environmental Science and Management (09/2015-Expected 09/2020)

Bren School of Environmental Science & Management

University of California, Santa Barbara (UCSB)

Dissertation Title: Managing socio-ecological resilience in small-scale fisheries

Committee: Ben Halpern (chair); Steve Gaines and Matto Mildener (co-advisors)

Professional Degree in Marine Biology with Honors (03/2006-04/2013)

Degree between US bachelor and master's-level

Austral University of Chile, Valdivia, Chile

Thesis project published in PLoS ONE.

HONORS, AWARDS, AND FELLOWSHIPS

Latin American Fisheries Fellowship—Bren School, UCSB (2016-2019)

International PhD Student Fellowship—CONICYT Chile (2015-2019)

Student of the Year Academic Merit—Austral University of Chile (2009)

Invited Honors Program Course Attendant — “From multi to trans: savoring serendipity”,
Austral University of Chile (2009)

RESEARCH EXPERIENCE

Principal Investigator – Kuni Fellowship Project (7/17-Present)

Bren School of Environmental Science & Management, UCSB, Santa Barbara, CA

Project: “Do TURFs confer socioecological resilience to Climate Change?”

- Leading 5-member team in researching the resilience of global Territorial Use Right in Fisheries globally
- Expecting to have a draft journal publication by July 2017.
- Submitted project proposal that was accepted under supervision of Professor Ben Halpern.

Research Assistant – Project Funded by Pew Charitable Trusts (11/14-7/15)

Biological Sciences Faculty, Pontificia Universidad Católica de Chile, Santiago, Chile

Project: “No-take reserves in Territorial User Right for Fisheries”

Principal Investigator: Stefan Gelcich

- Conducted 3 pilot studies aiming to explore the effectiveness of no-take reserves in TURFs in Central Chile.
- Collaborated with 3 fishing organizations to do underwater surveys and yearly follow-up studies measuring species abundance and diversity in their TURFs, in the no-take reserve inside their TURFs and neighboring open access areas for 3 years.

RESEARCH EXPERIENCE (continued)

Research Assistant – Project Funded by CONICYT, Chile Grant (8/13-10/14)

Biological Sciences Faculty, Pontificia Universidad Católica de Chile, Santiago, Chile

Project: “Biological, attitudinal and financial potential of Territorial User Rights Fisheries policies as ancillary conservation measures in Chile”

Principal Investigator: Stefan Gelcich

- Performed underwater field surveys to explore the effectiveness of 6 TURFs in Central Chile. Measured species abundance and diversity in 6 TURFs, 1 MPA and their neighboring Open Access Areas.
- Interviewed 600 fishers engaged in the TURF management scheme, exploring their perceptions about the policy and their adaptive capacity.
- Co-authored a research paper about fishers’ perception on the Chilean TURF policy

Research Assistant – Project Funded by Ministry of Economy, Chile Grant (4/12-6/13)

Biological Sciences Faculty, Pontificia Universidad Católica de Chile, Santiago, Chile

Project: Millenium Scientific Initiative P10-033FF “Marine Conservation Center”.

Principal Investigator: Miriam Fernandez

- Performed underwater field surveys to explore the effectiveness of TURFs and Marine Protected Areas in Central Chile
- Co-wrote a review paper on the importance of TURFs as ancillary tools for scaling-up marine conservation in Chile.

TEACHING EXPERIENCE

Teaching Assistant (2 quarters; 9/16-12/16 and 1/17-4/17)

Bren School of Environmental Science & Management, UCSB, Santa Barbara, CA

- Led laboratory sessions for two master’s-level environmental science and management courses with 82 students (courses: Statistics and Data Analysis; Advanced Data Analyses).
- Taught students to use R software from scratch.
- Graded assignments and exams.
- Held weekly 1.5 hour office hours for questions regarding the material taught and assignments.

Teaching Assistant (4 semesters from 6/08-12/10)

Biological Sciences Faculty, Austral University of Chile, Valdivia, Chile

- Led laboratory and discussion sessions on basic zoology and biodiversity to 80 undergraduate Biological Sciences students for 1 semester.
- Directed laboratory and discussion sessions on “Renewable Marine Resources Management” course to 45 undergraduate Marine Biology for 2 semesters.
- Guided laboratory and discussion sessions on “Marine Birds and Mammals Biology” course to 45 undergraduate students for 1 semester.

PUBLICATIONS

- 2017 **Tapia-Lewin S.**, Vergara K., Godoy N. De la Barra C., Castilla J.C. & Gelcich S. Distal impacts of Aquarium trade: Exploring the emerging sandhopper (*Orchestoidea tuberculata*) artisanal shore gathering fishery in Chile. *AMBIO* 46(6): 706-716. DOI: 10.1007/s13280-017-0906-x
- 2016 Gelcich S., Cinner J., Donlan C. J., **Tapia-Lewin S.**, Godoy N. & Castilla J. C. Fishers' perceptions on the Chilean coastal TURF system after two decades: problems, benefits, and emerging needs. *Bulletin of Marine Science*. DOI: 10.5343/bms.2015.1082.
- 2015 Gelcich S, Peralta L, Donlan JC, Godoy N, Ortiz V, **Tapia-Lewin S**, Vargas C, Kein A, Fernandez M, Castilla JC & Godoy F. Alternative Strategies for Scaling-up Marine Coastal Biodiversity Conservation in Chile. *Maritime Studies* 14:5. DOI: 10.1186/s40152-015-0022-0.
- 2014 **Tapia-Lewin S.** & Pardo LM. 2014. Field assessment of the predation risk - food availability tradeoff in crab megalopae settlement. *PLoS ONE* 9(4): e95335. DOI:10.1371/journal.pone.0095335.

ACADEMIC JOURNAL AND APPLICATION REFEREEING

Reviewer—*Ecology & Society*, ISSN: 1708-3087. 2017

Referee—FONDECYT Research Grant Application. CONICYT Chile. 2016

Referee—Bren School Quantitative Tutor Application. UCSB. 2016

CERTIFICATIONS AND WORKSHOPS

Attended *Systems Thinking Workshop*. UCSB. 2016

Attended *Barefoot Thinking Effective Leadership Workshop*. UCSB. 2015

CONFERENCE AND SEMINAR PRESENTATIONS

Poster presentation: *Applying an adaptive capacity framework to predict fishers' responses to climate change*. Resilience Meeting 2017, Stockholm, Sweden. August 2017.

Oral presentation: *Fishers' perceptions on the Chilean coastal TURF system after two decades: problems, benefits, and emerging needs*. Western Society of Naturalists 100th Meeting, Monterey, CA. November, 2016.

CONFERENCE AND SEMINAR PRESENTATIONS (continued)

Oral presentation: *Fishers' perceptions on the Chilean coastal TURF system after two decades: problems, benefits, and emerging needs.* Bren School PhD Symposium, UCSB. February, 2016.

Oral presentation: *Field experimental testing of the trade-off between food and predation cues for settlement in two cancrid crabs.* Crustacean Summer Meeting, San José, Costa Rica. July, 2013.

Oral presentation: *To eat or to be eaten: is that the dilemma crabs face when settling?* XX Chilean Marine Sciences Conference, Concepción, Chile. October, 2010. (In Spanish)

ADVISORY EXPERIENCE AND COMMUNITY INVOLVEMENT

Council Member, PhD Dean's Advisory Council—Bren School, UCSB (1/17-Present)
Represent PhD student body's interests and concerns to Bren School's Deans Advisory Council.

External PhD Mentor, Master's Group Project—Bren School, UCSB (4/16-4/17)
Mentored and advised 4 master's students collaborating on a master's thesis group project that aimed to inform small-scale fisheries management for Nicoya Fisheries in Costa Rica.

Independent Volunteer—Self-initiative (2/10-3/10)
Formed a group of friends to help for 2 weeks in removing wreckage and rebuilding after the 2010 tsunami event in Pelluhue, Chile.

Campus Tour Guide—Biological Sciences Faculty, Universidad Austral de Chile (3/07-12/07)
Led weekly campus tours to groups of 20-30 prospective students.

Volunteer—Winter Works, Saint George's College, Chile. (7/03-7/05)
Built and repaired 10 social emergency houses to aid vulnerable households coping with the hard winter.

SKILLS AND CERTIFICATIONS

Skills

Technical: RStudio (proficient); Mendeley (proficient); Matlab (intermediate); Stata (intermediate); Scientific diver (+200 hours of field experience)

Languages: Spanish (native), English (fluent), Italian (basic)

Certifications

International Scientific Diver (Forschungstaucher). Bundesverband der Unfalckassen, Germany. 2010.

Specialist Diver. Chile Navy. 2010

Advanced Open Water Diver. PADI. 2001