

Maria Del Mar Mancha Cisneros
Arizona State University
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EDUCATION

Ph.D candidate in Environmental Life Sciences (expected in 2017)
School of Life Sciences, Arizona State University (ASU), Tempe AZ
Supervisor: Leah R. Gerber

European Master in Applied Ecology through Erasmus Mundus, (2011)
M.Sc. in Biology, Ecology and Evolution, University of Poitiers, France.
Co-supervisors: Dr. Catherine Souty-Grosset and Dr. François Pinet
Thesis: Assessment of burrowing activity and diet composition of the red swamp crayfish, *Procambarus clarkii*, in fish-ponds of La Brenne.

M.Sc. in Environmental Management, Christian-Albrechts-Universitat zu Kiel, Germany

B.Sc. in Biology: Marine and Freshwater Biology (2008),
University of Texas at Austin. Austin, TX. GPA of 3.52,

GRANTS and AWARDS / HONORS

Fellowships: CONACYT Fellowship for post-graduate studies abroad (2011 – 2016) - \$160,000 USD
RTI Field Work Fellowship (2015 – 2016) - \$1,500 USD

Honors: University Honors Fall 2006, Spring 2007 and 2008. University of Texas at Austin

RESEARCH INTERESTS / AREAS OF SPECIALIZATION

Applied conservation; marine spatial planning; design and implementation of marine reserves; incorporation of socioeconomic impacts into marine spatial planning; social-ecological-systems; coupled-infrastructure-systems; common-pool-resource governance; social dilemmas; effects of climate change on the designing of marine reserves; effects of climate change on connectivity and dispersal; human dimensions of conservation; conservation policy

PUBLICATIONS

Mancha-Cisneros, M.M., Suarez-Castillo, A.N., Álvarez-Romero, J.G., Munguia-Vega, A., Beger, M., Espinosa-Romero, M.J., Torre, J., Gerber, L.R. *In prep.* An integrated approach to design a network of marine reserves in the Midriff Islands (Gulf of California) considering stakeholder preferences.

Álvarez-Romero, J.G., Munguia-Vega, A., Beger, M., Suárez-Castillo, A.N., Gurney, G.G., Adams, V.M., Pressey, R.L., Gerber, L.R., **Mancha-Cisneros, M.M.**, Castillo-Lopez, A., Kolb, M., Morzaria-Luna, H.N., Reyes-Bonilla, H., Graham, E., VanDerWal, J., Torre-Cosío, J., *In prep.* Designing marine reserve networks considering ecological connectivity and climate change: a practical application in the Midriff Islands, Gulf of California.

Senko, J., **Mancha-Cisneros, M. M.**, Humber, F., Godley, B., Koch, V., Wallace, B.P., Fox, T., Peterson, C.L. *In prep.* Global Patterns of Marine Turtle Consumption.

Mancha-Cisneros, M. M. and L. R. Gerber. 2015. Guiding principles for green economic development in the marine environment: Insights from small-scale fisheries and marine protected areas. *In Biodiversity and the Green Economy*, London: Routledge.

Gerber, L. R., **M. M. Mancha-Cisneros**, M. I. O'Connor and E. R. Selig. 2014. A framework for assessing climate change impacts on connectivity in the ocean: Implications for conservation. *Ecosphere* 5:33.

Souty-Grosset, C., Reynolds, J., Gherardi, F., Aquiloni, F., Coignet, A., Pinet, F., and **Mancha-Cisneros, M.M.** 2014. Burrowing activity of the invasive red swamp crayfish, *Procambarus clarkii*, in fishponds of La Brenne (France). *Ethology Ecology & Evolution* 26(2-3): 263-276). <http://dx.doi.org/10.1080/03949370.2014.892538>

Anadon, J. D., **M. M. Mancha-Cisneros**, B. D. Best and L. R. Gerber. 2013. Habitat-specific larval dispersal and marine connectivity: Implications for spatial conservation planning. *Ecosphere* 4(7): 82.

SELECTED CONFERENCE PRESENTATIONS

Mancha-Cisneros, M.M., Suarez-Castillo, A.N., Álvarez-Romero, J.G., Munguia-Vega, A., Beger, M., Espinosa-Romero, M.J., Torre, J., Gerber, L.R. 2016. An integrated approach to design a network of marine reserves in the Midriff Islands (Gulf of California) considering

stakeholder preferences. International Marine Conservation Congress of the Society for Conservation Biology, St. John's, Newfoundland and Labrador, CANADA (poster).

Mancha-Cisneros, M. M., Suarez-Castillo, A. N., Torre, J. T., and Gerber, L. R. 2015. Marine reserves are no panacea: institutional scale and cooperative management for reserve efficacy under multi-scale governance. 15th Biennial Conference of the International Association for the Study of the Commons, Edmonton, Alberta, CANADA (oral presentation).

Casey L. Peterson, David I. Shockey, Volker Koch, Bryan P. Wallace, **Maria del Mar Mancha-Cisneros**, Trevor Fox, and Jesse Senko. 2014. Global Patterns of Marine Turtle Consumption. 34th Annual Symposium on Sea Turtle Biology and Conservation, New Orleans, LA, USA (poster).

Mancha-Cisneros, M. M., J. D. Anadon, B. D. Best and L. R. Gerber. 2013. Habitat-specific larval dispersal and marine connectivity: Implications for spatial conservation planning. 26th International Congress of the Society for Conservation Biology, Baltimore, MD, USA (oral).

Souty-Grosset, C., **Mancha Cisneros, M.M.**, Coignet, A., Pinet, F., and Gherardi, F. 2012. Assessment of burrowing activity of the red swamp crayfish, *Procambarus clarkii*, in fish-ponds of La Brenne. 19th International Association of Astacology Symposium, Innsbruck, Austria (poster).

Public Talks

- Invited speaker for the Graduate Women's Association panel "Leadership in the Classroom" at ASU, Spring 2014.
- Guest lecturer for ASU's undergraduate BIO 494 Marine Biology course taught by Susanne Neuer, Spring 2014.
- Guest lecturer for ASU's undergraduate BIO 323 Ecosystem Restoration and Management course taught by Juliet Stromberg, Spring 2015.
- Guest lecturer for ASU's undergraduate BIO 423 Population and Community Ecology course taught by John Sabo, Spring 2016.

SELECTED RESEARCH/TEACHING/WORK EXPERIENCE

Work

Expert consultant for The Nature Conservancy: "Regional profile and three case studies for the development and adaptation of socio-economic and governance principles for fish replenishment zones (marine reserves) in the Gulf of California, Mexico" - (2016)

Teaching

External advisor for the project "Evaluation of TURF-reserve effectiveness in Mexico" - University of California at Santa Barbara, CA
Advising students of the Master of Environmental Science and Management (MESM) for the Bren School of Environmental Science and Management (Caio Faro, Jael Martinez, Juan Carlos Villaseñor, Melaina Wright) – (2016-2017)

Graduate Teaching Assistant, Arizona State University, Tempe, AZ

- BIO 182 - Introduction to General Biology I lab, Lab TA (Fall 2011, Fall 2012)
- BIO 181 - Introduction to General Biology II lab, Lab TA (Fall 2013)
- BIO 411 - Quantitative Methods in Conservation and Ecology, Co-Instructor, Course Development, and Lab TA (Spring 2014, Spring 2015, Spring 2016)

Research

Graduate Research Assistant/Coupled Infrastructure Systems Analyst, Center for Behavior, Institutions, and the Environment, Arizona State University, Tempe, AZ, (Summer 2015, 2016).

Supervised by Dr. Marty Anderies for the project "CNH: When Strengths Can Become Weaknesses: Emerging Vulnerabilities in Coupled Natural Human Systems under Globalization and Climate Change", an NSF-supported project.

Graduate Research Assistant, Comunidad y Biodiversidad, A. C., Guaymas, México. (2013-present)

Scientific team: Network of Marine Reserves in the Midriff Islands Region in the Gulf of California, México, funded by WWF – Fundación Carlos Slim (FCS).

Laboratory Research Assistant, University of Texas at Austin, TX, (2009)

Freshwater zooplankton metacommunities (preliminary analysis of zooplankton community samples from ponds in north Texas), employed under Dr. Mathew Leibold of the University of Texas at Austin.

Undergraduate research

Research Intern, University of Texas at Austin, TX, (Summer 2006)

Marine Science (Analysis of oceanographic data: Sub-water masses in the Caribbean Sea and Gulf of Mexico) under supervision of Dr. Dong-Ha Min of the University of Texas Marine Science Institute.

Research Assistant, University of Texas at Austin, TX, (2007-2008)

Freshwater fish biology and ecology, invasive aquatic species (Temperature tolerance experiments in cichlid fish *Hemichromis guttatus* of the Cuatrocienegas Valley in Coahuila, Mexico) under supervision of Dr. Camille Parmesan of the University of Texas at Austin.

SERVICE AND PROFESSIONAL MEMBERSHIPS

School of Life Sciences Graduate Executive Board (SOLS E-Board)

- President 2016-2017
- Secretary 2015-2016

Central Arizona Chapter for the Society of Conservation Biology (CACSCB), (2013-2014)

- Publicity Committee

Society for Conservation Biology, member (2013 – present)

SKILLS

Computer: Windows, Mac OS X, Microsoft Office™ tools: Word™, Excel™, Microsoft Access™, Power Point™.

Experience with: ArcGIS, QGIS, Marxan, Zonae Cogito, Zonation, Ocean Data View, SPSS, SAS, R for Statistical Analysis and modeling, XPPAut, Octave, Matlab, Stata, Gap Light Analyzer, CANOCO for multivariate analysis of community data.

Languages: Spanish (native speaker); English (proficient); French (advanced); German (basic).

OTHER ACTIVITIES

Tennis: Athletic Scholarship, Clayton State University, 2005.

Ballet.

Certified Barre & Ballerobica Instructor, Level 2.

REFERENCES

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Change, Arizona State University
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