Marie L. Fujitani

Leibniz Center for Tropical Marine Research Fahrenheitstraße 6, 28359 Bremen, Germany Marie.Fujitani@leibniz-zmt.de +49(0)421 238 00-126

EDUCATIONAL EXPERIENCE

Arizona State University
Doctor of Philosophy, Environmental Life Sciences (Interdisciplinary degree program)
Conservation Biology and Environmental Economics
May 2014
Master of Science, Biology
May 2010
University of California at Davis
Bachelor of Science, Animal Biology with a Behavioral emphasis

Tempe, Arizona
May 2014
May 2010
Davis, California
June 2003

PROFESSIONAL AND RESEARCH EXPERIENCE

University of Bremen, Institute for Geography Professor

Bremen, Germany Sept 2020-Present

• Transdisciplinary science for sustainable tourism – a mixed-method integrated social and natural science research project on participation, deliberation, and decision-support to meet the challenge of wastewater management for small-scale nature-based tourism communities in the tropics

Leibniz Centre for Tropical Marine Ecology Junior Research Group Leader

Bremen, Germany June 2019-Present

• Leader of the working group 'Deliberation, Valuation, & Sustainability'

Leibniz Centre for Tropical Marine Ecology Post-Doctoral Researcher

Bremen, Germany July 2016-Dec 2018

- Led project on perceptions of wastewater impacts on the economy, environment, and human health
- Willingness to pay and mental models of wastewater management of the tourism sector in Costa Rica

Leibniz-Institute for Freshwater Ecology and Inland Fisheries Post-Doctoral Researcher

Berlin, Germany Mar 2014-June 2016

- Empirically modeled how institutional and environmental context affects sustainable decision making by natural resource managers in Germany and France
- Analyzed learning and behavioral outcomes from a large-scale transdisciplinary experiment involving angling stakeholders participating in cooperative adaptive management

NOAA National Marine Fisheries Service Office of Aquaculture Knauss Marine Policy Fellow

Silver Spring, Maryland Feb 2013- Jan 2014

- Highly selective Fellowship placing early career scientists at policy positions in the Federal government.
- Managed Federal research granting programs, interagency working groups, prepared outreach materials, and supported U.S. bilateral relationships with Japan, Canada and the E.U.
- Served as NOAA representative and logistics coordinator for the U.S. panel of the annual bilateral science exchange with Japan (Hokkaido, Japan) and business meeting (Yokohama, Japan).

Arizona State University Research Assistant

Tempe, Arizona 2010-2012

• NOAA Saltonstall-Kennedy funded bio-economic modeling of recreational anglers in Mexico

Prescott College Kino Bay Field Station Visiting Researcher

Bahia Kino, Mexico Summer 2009

- Conducted an interdisciplinary project assessing biological and human use changes in response to a marine reserve.
- Collaborated and conducted outreach with recreational anglers and the Mexican government,
- According to the director of a local NGO, my research and outreach influenced policy: "Your research... help(ed) managers to take decisions, in my experience in very very few examples I see a perfect line from a scientific result to management application."

Centro Interdiscliplinario de Ciencias Marinas / Arizona State University Various, Mexico Field Assistant 2008

- Teamwork for weeks in remote desert island environments monitoring California sea lions
- Captured, measured, tagged, and released California sea lion pups, conducted population surveys; used an ethogram; biopsied with a sampling crossbow and processed samples for genetic analysis

Osaka University of Commerce Sakai High School (Berufsschule) English as a Foreign Language Teacher

Osaka, Japan 2006- 2008

- Designed the curriculum for the school's first listening course for college entrance exams
- Full responsibility for class content and student evaluation in nine classes

Japanese Exchange and Teaching Program (JET)

Fukuoka, Japan

English as a Foreign Language Teacher, Chikusui High School (Berufsschule)

2003-2006

- Conceived and implemented original lesson plans, projects and exams; assistant-supervised the school's inaugural international student exchange program
- Selected to present at a national training conference, repeat invited speaker at training events

Publications

- Riepe, C., **Fujitani**, M., Aas, O., Kochalski, S., and R. Arlinghaus. Values, Beliefs, Norms, and Conservation-Oriented Behaviors Towards Native Fish Biodiversity in Rivers: Evidence From Four European Countries. Society & Natural Resources, 34:6 703-724
- Nelson, K. M., Partelow, S., Stäbler, M., Graci, S., & M. **Fujitani**. 2021. Tourist willingness to pay for local green hotel certification. Plos one, 16(2), e0245953.
- Sánchez-Jiménez, A., MacMillan, D., Wolff, M., Schlüter, A., and M. **Fujitani**. 2021. The Importance of Values in Predicting and Encouraging Environmental Behavior: Reflections From a Costa Rican Small-Scale Fishery. Frontiers in Marine Science 8:137.
- **Fujitani**, M. L., C. Riepe, T. Pagel, J. Cucherousset, and R. Arlinghaus. 2020. Ecological and social constraints are key for voluntary investments into renewable natural resources. Global Environmental Change, 63, 102125.
- Riepe, C., Meyerhoff, J., **Fujitani**, M., Aas, O., Radinger, J., Kochalski, S., and R. Arlinghaus. 2019. Managing river fish biodiversity generates substantial economic benefits in four European countries. Environmental Management 63:759–776
- Partelow, S., Fujitani, M., Soundarajan, V., and A. Schlüter. 2019. Transforming the social-ecological

- systems framework into a knowledge exchange and deliberation tool for comanagement. Ecology and Society 24:1
- Kochalski, S., Riepe, C., **Fujitani**, M., Aas, Ø., and R. Arlinghaus. 2019. Public perception of river fish biodiversity in four European countries. Conservation Biology 33:164-175
- Sánchez Jiménez, A., **Fujitani**, M., MacMillan, D., Schlüter, A., and M. Wolff. 2019. Connecting a Trophic Model and Local Ecological Knowledge to Improve Fisheries Management: The Case of Gulf of Nicoya, Costa Rica. Frontiers in Marine Science 6:126
- **Fujitani**, M. L., L. R. Gerber, J. Torre, and E. P. Fenichel. 2018. Synthesizing ecological and human use information to understand and manage coastal change. Ocean and Coastal Management. 162:100-109.
- Schlüter, A., Partelow, S., and M. **Fujitani**. 2018. Coastal systems in transition: From a 'natural' to an 'anthropogenically modified' state. Ocean and Coastal Management. 162:1-5.
- **Fujitani**, M., Solano, S. Schlüter, A. 2018. Tourism and Wasterwater: A Field Study in Montezuma, Costa Rica. In: Hempel, G., Hempel, K., Hornidge A-K., eds. Scientific Partnership for a Better Future Bremen's Research Along Tropical Coasts, Edition Falkenberg. pp. 401-414. ISBN 978-3-95494-151-3
- Goldbach, C., M.L. **Fujitani**, A. Schlüter. 2018. Analyzing potential effects of migration on coastal resource conservation in Southeastern Ghana. Journal of Environmental Management. 209:475-483
- **Fujitani**, M. L., McFall, A, Randler, C., and Arlinghaus, R. 2017. Participatory adaptive management leads to environmental learning outcomes extending beyond the sphere of science. Science Advances 3: e1602516
- Riepe, C., M. L., **Fujitani**, T. Pagel, J. Cucherousset, and R. Arlinghaus. 2017. What determines the behavioral intention of local-level fisheries managers to alter fish stocking practices in freshwater recreational fisheries of two European countries? Fisheries Research 194:173-187
- Arlinghaus, R., J. Alos, B. Beardmore, K. Daedlow, M. Dorow, M. **Fujitani**, D. Huhn, W. Haider, L. M. Hunt, B. M. Johnson, F. Johnston, T. Klefoth, S. Matsumura, C. Monk, T. Pagel, J. R. Post, T. Rapp, C. Riepe, H. Ward, and C. Wolter. 2017. Understanding and managing freshwater recreational fisheries as complex adaptive social-ecological systems. Reviews in Fisheries Science and Aquaculture 25:1-41.
- Theis, S., Riepe, C., **Fujitani**, M., Arlinghaus, R. 2017. Typisierung von Angelvereinen in Bezug auf den Einsatz von Hegemaßnahmen. AFz-Fischwaid, 3/2017, 18-20
- **Fujitani**, M. L., McFall, A, Randler, C., and Arlinghaus, R. 2016. Efficacy of lecture-based environmental education for biodiversity conservation: A robust controlled field experiment with recreational anglers engaged in self-organized fish stocking. Journal of Applied Ecology 53:25-33
- **Fujitani**, M.L., R.C. Jones, M.B. Rust. 2015. First annual report on aquaculture and policy in the United States of America for the 2013 UJNR panel. Bulletin of Fisheries Research Agency 40:21-31

- Arlinghaus, R., Cyrus, E.-M., Eschbach, E., **Fujitani**, M., Hühn, D., Johnston, F., Pagel, T., Riepe, C. 2015. Hand in Hand für eine nachhaltige Angelfischerei: Ergebnisse und Empfehlungen aus fünf Jahren praxisorientierter Forschung zu Fischbesatz und seinen Alternativen. (Hand in hand for sustainable recreational fisheries: results and recommendations from five years of practical research on fish stocking and its alternatives. Reports of the IGB, Issue 28.
- **Fujitani**, M. L. 2014. Marine reserves with fisheries management: regulations aimed at people to hit biological targets. Ph.D. Dissertation. Arizona State University, Tempe, Arizona.
- Rust, M., P. Olin, A. Bagwill, and M.L. **Fujitani** (editors). 2013. Hatchery Technology for High Quality Juvenile Production: Proceedings of the 40th U.S.-Japan Aquaculture Panel Symposium, Honolulu, Hawaii, October 22-23, 2012. U.S. Dept. Commerce, NOAA Tech. Memo. NMFS-F/SPO-136.
- **Fujitani**, M. L., E. P. Fenichel, J. Torre, and L. R. Gerber. 2012. Implementation of a marine reserve has a rapid but short-lived effect on recreational angler use. Ecological Applications 22(2):597-605
- **Fujitani**, M. L. 2010. The rapid assessment of a new marine reserve in the Gulf of California, Mexico. Master's Thesis. Arizona State University.

In Review or Preparation

- Fujitani, M. L., J. K. Abbott, E. P. Fenichel. Marine reserves and the role of pre-existing management institutions. In prep, Reviews in Fisheries Science and Aquaculture.
- Fujitani, M.L., J. Meyerhoff, J. Sagebiel, A. Schlüter. Eco-tourism and the triple bottom line: willingness to pay for wastewater management by the tourism sector on the Nicoya Peninsula, Costa Rica. In prep, Journal of Environmental Management
- Engel, J., J. Almonacid, Breckwoldt, A., Grey, S., and M. Fujitani. The impact of tourism on artisanal and illegal fisheries a case study. In prep, Conservation Letters.
- Mora, N.C., Mejía-Falla, P.A., Reuter, H., and M. Fujitani. Citizen science for elasmobranch research in Colombia. In prep, Conservation Biology

SELECTED ORAL PRESENTATIONS

2021 (Keynote	e) YOUMARES12. "Transdisciplinary sustainability science: what's in it for you?"
	Hamburg, Germany
2018	Pathways Human Dimensions. "Voluntary investments by civilians into Salmonid
	stocking and habitat" Goslar, Germany
2016	ECSA 56: "Public willingness to pay for biodiversity of migratory fishes – A four-
	country discrete choice experiment" Bremen, Germany
2016	Pathways Kenya. "Transdisciplinary science and stakeholder engagement: A before-
	after-impact-control study on learning for sustainable stocking in German recreational
	fisheries" Nanyuki, Kenya
2015	EIFAAC Symposium. "Engaging with stakeholders for sustainable inland fisheries:
	A before-after-impact-control study on learning for sustainable stocking

RESEARCH EXPEDITIONS

2009-2010	Mexico	Studied recreational use and environmental impact of a marine reserve
2017	Costa Rica	Led a team of research assistants on a project studying deliberative
		valuation of wastewater management in the Gulf of Nicoya
2017	Costa Rica	Supervised PhD/MSc students in the field on projects concerning
		artisanal fisheries

AWARDS AND FELLOWSHIPS

2018 BMBF FONA SÖF Junior Research Group	1,957,589 €		
2016 ZMT Postdoctoral Research Grant	5,000 €		
2013 Knauss Marine Policy Fellowship	\$56,500		
2013 ASU School of Life Sciences Completion Award	\$10,484		
2010-12 Arizona State University Travel Grants	\$3,000		
2011 American Fisheries Society, Equal Opportunities Section Travel Grant	\$500		
2006 Japan Intercultural Academy of Municipalities Translation and Interpretation Course Scholarship			

UNIVERSITY TEACHING

2019, (2020 Parental leave), 2021

Descriptive Statistics

University of Bremen, Institute for Geography (2 semester week hours)

Tourism, Development, and Sustainability

University of Bremen, Institute for Geography (2 semester week hours)

2018 Experimental Methods and Statistics

ISATEC Master's Programme, University of Bremen (40 hours)

Development Economics: Impact Assessment

Jacobs University Bremen (3 hours)

2015 Advanced Statistics: Generalized Linear Mixed Models

IGB Doctoral Program (32 hours)

2008-2010 BIO 187/188 General and Honors Biology Lab for Natural Science Majors

School of Life Sciences, Arizona State University, Tempe, Arizona, USA

(6 hours a week for 5 semesters; 30 semester week hours)

SERVICE

Ombudsperson	Leibniz Centre for Tropical Marine Research Ombudsperson for good scientific practice	Oct 2021-
Speaker	Leibniz Centre for Tropical Marine Research Programme Area 4: Knowledge Systems and Ecosystem Design Organizer of cross-cutting interdisciplinary research focus area	2019-
Assistant Organizer Assistant Organizer	American Fisheries Society 141 st Annual Meeting Symposium Recreational Fisheries and Angler Behavior Workshop	Sept 2011 Feb 2011
Consulting	Deutsche Gesellschaft für Internationale Zusammenarbeit	2021

Peer Review

Alexander von Humboldt Postdoctoral Fellowships

Biological Conservation, Conservation Letters, Ecological Applications, Ecology and Society, Ecosystem Services, Fisheries Management and Ecology, Fisheries Research, Global Environmental Change, Journal of Outdoor Recreation and Tourism, Canadian Journal of Fisheries and Aquatic Sciences, North American Journal of Fisheries Management

OUTREACH

Leibniz Association event Book a Scientist to speak with members of the public about sustainable tourism. Marine subject matter expert for Ask A Biologist (askabiologist.asu.edu). Engaging research summaries for a general audience (Project Besatzfisch, IGB), magazine articles for non-academic stakeholders (e.g. AFz-Fischwaid, 3/2017), web content on scientific breakthroughs and policy developments for a lay audience (FishWatch.gov, NOAA), Birds n' Beer Seminar series contributor of humorous wildlife talks (Arizona Audubon Society), invited speaker to primary and secondary school groups and classes on careers in science.

Careers in Science Youth Outreach Organizer

North Phoenix Prevention Alliance (NOPAL)
April 2012

Conceived, organized, and ran a science outreach and games booth emphasizing minority involvement in scientific careers; over 200 children aged 7-18 attended the community event

LANGUAGE PROFICIENCIES

English: Native speaker

Japanese: High speaking and listening, intermediate reading comprehension

Formal study: University of California at Davis 2000-2003; Japanese Council of Local

Authorities for International Relations Japanese Courses 2003-2005, Japan Intercultural Academy

of Municipalities Translation and Interpretation Course (scholarship) 2006

German: Current coursework at level C1

Spanish: Intermediate reading, basic speaking and writing **Chinese (Mandarin), Bahasa Indonesia, Kiswahili:** Basic

SKILLS AND CERTIFICATIONS

- Proficient in R, STATA, WinBUGS, Excel (and VB), Word, Powerpoint
- Certified Scientific Diver American Academy of Underwater Sciences (2010)
- 3rd degree black belt Iaido Fourteen years, cultural demonstrations and exchange