

# CURRICULUM VITAE

## Masami Fujiwara

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### ***Education***

<b><u>PhD</u></b>	Biological Oceanography	MIT-WHOI Joint Program	2002
<b><u>M.S.</u></b>	Marine Biology	University of Alaska Fairbanks	1997
<b><u>B.S.</u></b>	Biological Sciences	University of Alaska Fairbanks	1993

### ***Professional Position***

Associate Professor	Department of Ecology and Conservation Biology Texas A&M University	2020-
Associate Professor	Department of Wildlife and Fisheries Sciences Texas A&M University	2015- 2019
Assistant Professor	Department of Wildlife and Fisheries Sciences Texas A&M University	2009-2015
Graduate Faculty	Ecology and Evolutionary Biology Interdisciplinary Degree Program, Texas A&M University	2015-
Graduate Faculty	Marine Biology Interdisciplinary Degree Program, Texas A&M University	2010-
IAMCS Application Researcher	Institute of Applied Mathematics and Computer Sciences, Texas A&M University	2010-2012
Project Scientist	Institute of Marine Sciences University of California Santa Cruz	2005-2009
Fishery Biologist	Southwest Fisheries Science Center National Marine Fisheries Service	2005-2009
Postdoctoral Researcher	Department of Ecology, Evolution, and Marine Biology University of California Santa Barbara	2002-2005

## Teaching

### Courses Taught

<u>Course #</u>	<u>Course Title</u>	<u># Credit</u>	<u># Taught</u>
WFSC 624	Dynamics of Population	4 credit	10 times
WFSC 425	Marine Fisheries	3 credit	8 times
WFSC 403	Animal Ecology	3 credit	4 times
EEBL 602	Population Ecology	1 credit	3 times

### Certificate and Award

Professional Certification in Online Teaching, Texas A&M University	2012
Outstanding Graduate Teaching Award, Dep. of Wildlife and Fisheries Sciences	2018

### Advising

#### Graduate Students Graduated

Ali Abdulameer Al-Badran,	PhD, Wildlife and Fisheries Sciences	2019
<b>Dissertation Title:</b> Investigation of Lethal And Sub-Lethal Effects of Common Insecticides, Fipronil and Imidacloprid, on Juvenile Brown Shrimp, <i>Farfantepenaeus aztecus</i> , and White Shrimp, <i>Litopenaeus setiferus</i>		
Jasmin Diaz-Lopez	M.S., Wildlife and Fisheries Sciences	2019
<b>Thesis Title:</b> Common Inaccuracies in Fertility Parameters of Matrix Population Models and Suggestions for Corrections		
Liliana Sierra Castillo	M.S., Wildlife and Fisheries Sciences	2019
<b>Thesis Title:</b> Improving the Assessment of the Lane Snapper ( <i>Lutjanus synagris</i> ) in a Small-Scale Fishery in Honduras		
Cyreneia Piper	M.S., Wildlife and Fisheries Sciences	2017
<b>Thesis Title:</b> Size and density-dependent survival in a brown shrimp ( <i>Farfantepenaeus aztecus</i> ) population		
Bheemai Shankara Narayana Rao	PhD, Applied Mathematics (Co-Chair)	2016
<b>Dissertation Title:</b> On a spatiotemporal population dynamics model to track density and average mass: Application to brown shrimp ( <i>Farfantepenaeus aztecus</i> )		
Can Zhou	PhD, Wildlife and Fisheries Sciences	2015
<b>Dissertation Title:</b> A predator-prey system with seasonal reproduction: Theoretical and statistical developments		
Melvin Woody	MS, Fisheries Science	2013
<b>Professional Paper:</b> Anthropogenic hybridization of westslope cutthroat trout ( <i>Oncorhynchus clarkii lewisi</i> ) with rainbow trout ( <i>O. mykiss</i> )		
Mengmeng Sun	MS, Wildlife and Fisheries Sciences	2013
<b>Thesis Title:</b> Regional climate effect on population abundance of major duck species in interior plains of Canada		

### Current Graduate Students

Michaela Pawluk	PhD	2016-
Milton Torres Ceron	PhD	2019-

### Visiting Scholars

Zohreh Mazaheri Kohanestani      April 2017 - August 2018  
Gorgan University of Agricultural Sciences and Natural Resources, Iran

Xin Gao      December 2016 - December 2017  
Institute of Hydrobiology, China

### Undergraduate Students (Undergraduate Research Mentored)

Fiala Bumpers	ESSM (2016-2019)	Undergraduate Thesis
Jasmin Diaz-Lopez	WFSC (2016-2017)	ABS Conservation Scholar
Amanda Stoner	WFSC (2015-2016)	ABS Conservation Scholar
Chelsea Acres	WFSC (2014-2015)	ABS Conservation Scholar
Diego Lopez	Mathematics (2013- 2015)	NSF UBM Program
Addison Davis	Biology (2013-2015)	NSF UBM Program
Cody Lupardus	Biology (2013-2014)	NSF UBM Program
Cyreneia Millberry	WFSC (2012-2013)	Undergraduate Thesis
Jordan Carpenter	Prairie View A&M (2012-2013)	NSF UBM Program
Doreen Hanson	Western Oregon University (2012)	NSF REU program
Tracy Shields	Prairie View A&M (2011-2012)	NSF UBM Program
Georgia Pfeiffer	College of William and Mary (2011)	NSF REU Program
Bianca Martinez	WFSC (2010-2011)	NSF UBM Program

### Current Graduate Thesis Committee

Thethela Bokhutlo	PhD	WFSC
Frederich W. Keppeler	PhD	WFSC
Mariah Livernois	PhD	MARB IDP

### Past Graduate Thesis Committee (Graduated)

Jesse Backstrom	PhD	Agricultural Economics	2019
Sierra Cagle	PhD	WFSC	2019
Luke Bower	PhD	WFSC	2019
Danielle Walkup	PhD	WFSC	2018
Jeffrey Plumlee	M.S.	MARB IDP	2018
Jennifer Leo	PhD	WFSC	2017
Daniel Fitzgerald	PhD	WFSC	2016
Kristen Onsgard	MS	MARB IDP	2016
Rujia Bi	MS	MARB IDP	2015
Laura Harred	MS	Oceanography	2014
Chouly Ou	PhD	WFSC	2013
John McDow	MS	WFSC	2013
Jennifer Laird	MS	Wildlife Science	2013
Natanya Hayden	MS	WFSC	2011

## Research

### Funding

	<i>Period</i>	<i>Total Amount</i>	<i>Amount to Fujiwara</i>
Effects of physical environmental conditions on the species distribution and composition of marine fish and invertebrates along the Texas coast, NSF Biological Oceanography, <b>PI</b>	2017-2020	\$196,302	\$196,302
Economic valuation of brown and white shrimps as forage species in the coastal areas of Texas, Texas Sea Grant, <b>PI</b>	2014-2017	\$219,816	\$110,000
Investigation of short-term fluctuation in shrimp abundance in the Gulf of Mexico, Texas Sea Grant, <b>PI</b>	2012-2014	\$160,000	\$160,000
NSF UBM Institutional: Integrated Undergraduate Research Experiences in Biological and Mathematics Sciences, <b>Co-PI</b> (PI: Jay Walton)	2010-2015	\$498,895	\$100,000
Population dynamics model of fall-run Chinook salmon in the Klamath River Basin, Contract from NOAA National Marine Fisheries Service, <b>PI</b> (non-competitive)	2010-2012	\$47,000	\$47,000
Impacts of fish disease on Klamath River fall Chinook Salmon, Subcontract from University of California Santa Cruz, <b>PI</b> (non-competitive)	2009-2010	\$31,058	\$31,058
Incorporation of ocean environmental variation in the Klamath River fall Chinook salmon stock assessment, NOAA Fisheries and Environment Grant, <b>Co-PI</b> (PI: Brian Wells)	2007-2008	\$68,739	\$20,000

### Peer-Reviewed Publications

47. Samuelson, M.M., Fujiwara, M., Pulis, E.E., Pitchford J.L., Howard, V., Solangi, M. (*in press*) A comprehensive evaluation of survival and population growth estimates for common bottlenose dolphins (*Tursiops truncatus*) in the Mississippi Sound, USA, following the Deepwater Horizon Oil Spill. *Southeastern Naturalist*.
46. Fujiwara, M., Martinez-Andrade, F., Wells R.J.D., Fisher, M., Pawluk\*, M., Livernois, M.C. (2019). Climate-related factors cause changes in the diversity of fish and invertebrates in subtropical coast of the Gulf of Mexico. *Communications Biology* 2. DOI: 10.1038/s42003-019-0650-9.
45. Al-Badran\*, A. A., M. Fujiwara, M.A. Mora (2019) Effects of insecticides, fipronil and imidacloprid, on the growth, survival, and behavior of brown shrimp *Farfantepenaeus aztecus*. *PLOS One* 14 (10): e0223641; DOI: 10.1371/journal.pone.0223641
44. Kendall, B.E., M. Fujiwara, J. Diaz-Lopez\*\*, S. Schneider, J. Voight, S. Wiesner. (2019) Persistent problems in the construction of matrix population models. *Ecological Modelling* 406: 33-43
43. Wang, T., M. Fujiwara, X. Gao, H. Liu (2019) Minimum viable population size and population growth rate of freshwater fish related to life history traits. *Scientific Reports* 9:3612; DOI:10.1038/s41598-019-40340-z

42. Gao, X., M. Fujiwara, K.O. Winemiller, P. Lin, M. Li, H. Liu (2019) Regime shift in fish assemblage structure in the Yangtze River following construction of the Three Gorges Dam. *Scientific Reports* 9:4212; DOI: 10.1038/s41598-019-38993-x
41. Kouhanestani, Z.M., D.L. Roelke, R Ghorbani, M. Fujiwara (2019) Assessment of Spatiotemporal Phytoplankton Composition in Relation to Environmental Conditions of Gorgan Bay, Iran. *Estuaries and Coasts*, 42(1): 173-189; DOI: 10.1007/s12237-018-0451-2
40. Fujiwara, M., J.D. Backstrom, R.T. Woodward (2018) A coupled recreational anglers' decision and fish population dynamics model. *PLOS One*, 13(10): e0206537; DOI 10.1371/journal.pone.0206537
39. Fujiwara, M. (2018). Selection of trilateral continuums of life history strategies under food web interactions. *Scientific Reports* 8. 2045-2322
38. Kouhanestani, Z.M., R Ghorbani, M. Fujiwara, M. Rabbaniha, K Amini (2018) Identification of larval stages of fish in the Southern coastal waters of Caspian Sea, off Golestan. *International Journal of Fisheries Sciences*; DOI: 10.22092/ijfs.2018.119806
37. Al-Badran\*, A. A., M. Fujiwara, D.M. Gatlin, M.A. Mora (2018). Lethal and sub-lethal effects of the insecticide fipronil on juvenile brown shrimp *Farfantepenaeus aztecus*. *Scientific Reports* 8. 2045-2322
36. Fujiwara, M., J. Diaz-Lopez\*\*\* (2017) Constructing stage-structured matrix population models from life tables: Comparison of methods. *PeerJ* 5:e3971; DOI: 10.7717/peerj.3971
35. Fujiwara, M., T. Takada (2017) Environmental Stochasticity, *Encyclopedia of Life Science: eLS*. John Wiley & Sons, Ltd: Chichester. DOI: 10.1002/9780470015902.a0021220
34. Fujiwara, M., C. Zhou, C. Acres\*\*\*, F. Martinez-Andrade (2016). Interaction between penaeid shrimp and fish populations in the Gulf of Mexico: Importance of shrimp as forage species. *PLOS One* 11(11): e0166479.
33. Zhou, C.\*, M. Fujiwara, W.E. Grant (2016) Finding regulation among seemingly unregulated populations: A practical framework for analyzing multivariate population time series for their interactions. *Environmental and Ecological Statistics*. (DOI: 10.1007/s10651-015-0334-7)
32. Fujiwara, M. (2016) Incorporating demographic diversity into food web models: Effects on community structure and dynamics. *Ecological Modelling*. (DOI: 10.1016/j.ecolmodel.2015.11.015)
31. Gallaway, B.J., W.J. Gazey, C.W. Caillouet Jr., P.T. Plotkin, F.A. Abreu Grobois, A.F. Amos, P.M. Burchfield, R.R. Carthy, M.A. Castro Martinez, J.G. Cole, A.T. Coleman, M. Cook, S. Dimarco, S.P. Epperly, M. Fujiwara, D. Gomez Gamez, G.L. Graham, W.L. Griffin, F. Illescas Martinez, M.M. Lamont, R.L. Lewison, K.J. Lohmann, J.M. Nance, J. Pitchford, N.F. Putman, S.W. Raborn, J.K. Rester, J.J. Rudloe, L. Sarti Martinez, M. Schexnayder, J.R. Schmid, D.J. Shaver, C. Slay, A.D. Tucker, M. Tumlin, T. Wibbels, B.M. Zapata Najera (2016) Development of a Kemp's Ridley sea turtle stock assessment model. *Gulf of Mexico Science*, 33: 138-157.
30. Fujiwara, M., J.E. Cohen (2015) Mean and variance of population density and temporal Taylor's law in stochastic stage-structured density-dependent models of exploited fish populations. *Theoretical Ecology*, <DOI: 10.1007/s12080-014-0242-8>
29. Bani-Yaghoob, M., Y. Guangming, M. Fujiwara, D.E. Amundsen (2015) Understanding the interplay between density dependent birth function and maturation time delay using a

- reaction-diffusion population model. *Ecological Complexity*, 21: 14-26. (DOI: 10.1016/j.ecocom.2014.10.007)
28. Baker, R., M. Fujiwara, T.J. Minello (2014) Juvenile growth and mortality effects on white shrimp *Litopenaeus setiferus* population dynamics in the northern Gulf of Mexico. *Fisheries Research*. 155:74-82 (DOI:10.1016/j.fishres.2014.02.026)
  27. Fujiwara, M. (2014) Dynamics of infection of juvenile Chinook salmon with *Ceratomyxa shasta*. *Fisheries and Aquaculture Journal*. 5: 089. (DOI: 10.4172/2150-3508.1000089)
  26. Fujiwara, M., M.S. Mohr, A. Greenberg (2014) The effects of disease-induced juvenile mortality on the transient and asymptotic population dynamics of Chinook salmon (*Oncorhynchus tshawytscha*). *PLOS One*. 9(1): e85464. (DOI: 10.1371/journal.pone.0085464)
  25. Zhou, C.\*, M. Fujiwara, W.E. Grant (2013) Dynamics of a predator–prey interaction with seasonal reproduction and continuous predation. *Ecological Modelling*. 268: 25-36 (DOI:10.1016/j.ecolmodel.2013.07.028)
  24. Fujiwara, M., C. Zhou\* (2013) Population dynamics of stage-structured sequential hermaphrodites. *Canadian Journal of Fisheries and Aquatic Sciences*. 70: 1296-1305 (DOI:10.1139/cjfas-2012-0520)
  23. Anderson, K.E., M. Fujiwara, S.I. Rothstein (2012) Demography and dispersal of juvenile and adult Brown-headed cowbirds (*Molothrus ater*) in the eastern Sierra Nevada, California, estimated using multistate models. *The Auk*. 129 (2):307-318 (DOI:10.1525/auk.2012.11164)
  22. Gil-Weir, K.C., W.E. Grant, R.D. Slack, H. Wang, and M. Fujiwara (2012) Demography and population trends of Whooping Cranes. *Journal of Field Ornithology*. 83(1): 1–10 (DOI:10.1111/j.1557-9263.2011.00349.x)
  21. Fujiwara, M. (2012) Implications of demographic biodiversity for sustainable fisheries. *PLOS One*. 7(5): e34556. (DOI:10.1371/journal.pone.0034556)
  20. Fujiwara, M., G. Pfeiffer\*\*\*, M. Boggess, S. Day, and J. Walton (2011) Coexistence of competing stage-structured populations. *Scientific Reports*. 1, 107 (DOI:10.1038/srep00107)
  19. Fujiwara, M., M.S. Mohr, A. Greenberg, J.S. Foott, and J.L. Bartholomew (2011) Effects of Ceratomyxosis on population dynamics of Klamath fall-run Chinook Salmon. *Transactions of American Fisheries Society*. 140:1380–1391 (DOI: 10.1080/00028487.2011.621811)
  18. Kendall, B.E., G.A. Fox, M. Fujiwara, and T. Nogueira (2011) Demographic heterogeneity, cohort selection and population growth. *Ecology*. 92(10): 1985-1993 (doi:10.1890/11-0079.1)
  17. Wiedenmann, J., M. Fujiwara, and M. Mangel (2009) Transient population dynamics and viable stage or age distributions for effective conservation and recovery. *Biological Conservation*. 142: 2990-2996
  16. Fujiwara, M. and M.S. Mohr (2009) Identifying environmental signals from population abundance data using multivariate time-series analysis. *Oikos*, 118: 1712-1720
  15. Fujiwara, M. (2009) Environmental stochasticity. *Encyclopedia of Life Sciences*, John Wiley & Sons, Ltd. Chichester, UK.
  14. Fujiwara, M. (2008) Identifying associations among salmon populations from observed dynamics. *Ecology*, 89: 4-11

13. Fujiwara, M. (2008) Effects of an autocorrelated stochastic environment and fisheries on the age at maturity of Chinook Salmon (*Oncorhynchus tshawytscha*). *Theoretical Ecology*. <DOI 10.1007/s12080-007-0008-7>
12. Fujiwara, M. (2007) Extinction-effective population index for population comparisons. *Ecology*, 88: 2345–2353
11. Fujiwara, M., K.E. Anderson, M.G. Neubert, and H. Caswell (2006) On the estimation of dispersal kernels from individual mark-recapture data. *Environmental and Ecological Statistics*, 13: 183-197
10. Fujiwara, M., B.E. Kendall, R.M. Nisbet, and W.A. Bennett (2005) Analysis of size trajectory data using an energetic-based growth model. *Ecology*. 86: 1441-1451
9. Kraus, S.D., M.W. Brown, H. Caswell, C.W. Clark, M. Fujiwara, P.K. Hamilton, R.D. Kenney, A.R. Knowlton, S. Landry, C.A. Mayo, W.A. McLellan, M.J. Moore, D.P. Nowacek, D.A. Pabst, A.J. Read, R.M. Rolland (2005) North Atlantic right whales in crisis. *Science*, 309: 561-562
8. Harding, K.C., M. Fujiwara, T. Härkönen, and Y. Axberg (2005) Mass-dependent energetics and survival in harbour seal pups. *Functional Ecology*, 19: 129-135
7. Caswell, H. and M. Fujiwara (2004) Beyond survival estimation: Mark-recapture, matrix population models, and population dynamics. *Animal Biodiversity and Conservation*, 27: 471-488
6. Fujiwara, M., B.E. Kendall, and R.M. Nisbet (2004) Growth autocorrelation and animal size variation. *Ecology Letters*. 7: 104-113
5. Fujiwara, M. and H. Caswell (2002) A general approach to temporary emigration in mark-recapture analysis. *Ecology*, 83: 3266-3275
4. Fujiwara, M. and H. Caswell (2002) Estimating population projection matrices from multi-stage mark-recapture data. *Ecology*, 83: 3257-3265
3. Fujiwara, M. and H. Caswell (2001) Demography of the endangered North Atlantic right whale. *Nature*, 414: 537-541
2. Caswell, H., M. Fujiwara, and S. Brault (1999) Declining survival probability threatens the North Atlantic right whale. *Proceedings of the National Academy of Sciences, USA*, 96: 3308-3313
1. Fujiwara, M. and R.C. Highsmith (1997) Harpacticoid copepods: Potential link between inbound adult salmon and outbound juvenile salmon. *Marine Ecology Progress Series*, 158: 205-216

\* *PhD student*

\*\* *M.S. student*

\*\*\* *Undergraduate*

### **Technical Document / Non Peer-Reviewed Article / Book Review**

Fujiwara M, Martinez-Andrade F. (2019). Bag seine catch data in bays along the Texas coast from 1982 to 2016. Biological and Chemical Oceanography Data Management Office (BCO-DMO), Dataset version 2019-07-15. DOI: 10.1575/1912/bco-dmo.773137.1

Fujiwara M. (2019). Occupancy analysis of fish and invertebrate data collected with bag seine (Communications Biology). GitHub. DOI: 10.5281/zenodo.3464538

Fujiwara, M. and F. Martinez-Andrade (2017) Who's eating all the shrimp? *Environmental Science Journal for Teens*. <<http://www.sciencejournalforkids.org/science-articles/whos-eating-all-the-shrimp>>

- Mohr, M. and M. Fujiwara (2006) Mid-Klamath sub-stock effective population size analysis. In Final Environmental Assessment for Pacific coast Salmon Plan Amendment 15, prepared by Pacific Fisheries Management Council, Portland, OR.
- Neubert, M.G. and Fujiwara, M. (2000) Book Reviews: *Introduction to Chaos: Physics and mathematics of Chaotic phenomena*, by Hiroyuki Nagashima and Yoshikazu Baba. Translated by Mikio Nakahara. Institute of Physics Publishing, Bristol, UK. SIAM Review, 42: 756-758

### Invited Conference Presentations

- Fujiwara, M. (2017) Mean and variance of catch per unit effort of fishes collected along Texas coast. XII International Congress of Ecology, Beijing, China
- Fujiwara, M. (2013) Size- and stage-structured population model to assess the growth-mediated effect of environmental conditions on population dynamics, SIAM Conference on Application of Dynamical Systems, Snowbird, UT
- Fujiwara, M. (2012) Transient yield and long-term sustainability in fisheries. SACNAS National Conference, Seattle, WA
- Fujiwara, M. (2011) Population dynamics models in wildlife and fisheries management. SACNAS National Conference, San Jose, CA
- Fujiwara, M. (2011) Modeling complex fish life history using simple models: Toward understanding the effects of fishing pressures, IAMCS Workshop: Ecosystem Modeling, Simulation and Assessment, College Station, TX.
- Fujiwara, M., B.E. Kendall, R.M. Nisbet, S.L. Anderson, W.A. Bennett, A. Brooks, G. Cherr, W. Rose (2005) Models relating physiological indicators to population dynamics at multiple spatial scales. The Ecological Society of America Annual Meeting, Montreal, Canada.
- Fujiwara, M. and H. Caswell (2001) Temporary emigration in mark-recapture analysis. 15th Annual Meeting of the Society for Conservation Biology in Hilo, HI.

### Invited Lectures

Nanchang University, Nanchang, China	2018
Institute of Hydrobiology, Wuhan, China	2018
Rice University, Houston, TX	2017
National Marine Fisheries Service, Galveston, TX	2017
Prairie View A&M University, Prairie View, TX	2010
Virginia Institute of Marine Science, Gloucester Point, VA	2010
The College of William & Mary, Williamsburg, VA	2010
The University of Chicago, Chicago, IL	2007
Simon Fraser University, Vancouver, Canada	2007
The University of Tennessee, Knoxville, TN	2007
The University of Miami, Miami, FL	2005
The University of Maryland, College Park, MD	2005
The University of Tokyo, Japan	2004
Japan Agency for Marine-Earth Science and Technology, Japan	2003
The University of Toronto, Scarborough, Canada	2003



## Contributed Presentations (including presentations by students)

- Fujiwara, M. (2019) Climate Change and Diversity of Fishes and Invertebrates along Texas Coast. Ecological Society of America Annual Meeting, Louisville, Kentucky
- Bumpers, F.\*\*\*, Fujiwara, M. (2019) A spatial and temporal analysis of Texas bays and marine species. Ecological Society of America Annual Meeting, Louisville, Kentucky
- Pawluk, M.\* , Fujiwara, M (2019) Increasing Trends in Fish Diversity in the Bays of Texas, American Fisheries Society & The Wildlife Society 2019 Joint Annual Conference, Reno, Nevada
- Al-Badran, A.A.\* and Fujiwara, M. (2018). Lethal and sub-lethal effects of the neonicotinoid insecticide imidacloprid on juvenile brown shrimp *Farfantepenaeus aztecus*. Annual Meeting of American Fisheries Society, Atlantic City, New Jersey
- Pawluk, M.\* , Fujiwara, M., Perkin, J. (2018) Comparison of fish assemblages across space and time along the Texas coast using rarefaction analysis. Annual Meeting of Ecological Society of America, New Orleans, Louisiana
- Sierra, L.\*\* , Pawluk, M.\* , Fujiwara, M. (2018) Estimating fish mortality from fishery dependent data in artisanal fisheries: Demonstration of method using Lane snapper as an example. Annual Meeting of Ecological Society of America, New Orleans, Louisiana
- Fujiwara, M., Backstrom, J., Woodward, J. (2018) A coupled recreational anglers' decision and multi-species fish population dynamics models. Annual Meeting of Ecological Society of America, New Orleans, Louisiana
- Diaz-Lopez, J.\*\* and Fujiwara, M. (2018) . An overview of common inaccuracies when estimating fertility rates for matrix population models. Annual Meeting of Ecological Society of America, New Orleans, Louisiana
- Al-Badran, A.A.\* and Fujiwara, M. (2018) Estimating the negative effects of the phenylpyrazole insecticide fipronil on the penaeid shrimp *Litopenaeus setiferus*. Annual Meeting of Ecological Society of America, New Orleans, Louisiana
- Fujiwara, M. (2017) Selection of life history strategies under food web interactions. Annual Meeting of Ecological Society of America, Portland, Oregon
- Fujiwara, M. (2017) Mean and variance of catch per unit effort of fishes collected along Texas coast. XII International Congress of Ecology, Beijing, China
- Al-Badran, A.A.\* and Fujiwara, M. (2017) Evaluation of sublethal effects of insecticide (fipronil) on brown shrimp and white shrimp. Annual Meeting of American Fisheries Society, Tampa, Florida.
- Diaz-Lopez, J.\*\*\* and Fujiwara, M (2017) Comparison between Stage-Structured and Age-Structure Matrix Population Models, Annual Meeting of Ecological Society of America, Portland Oregon
- Diaz-Lopez, J.\*\*\* and Fujiwara, M (2017) Comparison between Stage-Structured and Age-Structure Matrix Population Models, Annual Meeting of Society for Advancement of Chicano and Native Americans in Science, Salt Lake City, Utah
- Fujiwara, M. (2016) Selection of life history strategies under food web interactions. Annual Meeting of Population Ecology, Sapporo, Japan
- Fujiwara, M., Zhou, C.\* (2016) Identifying associations between populations from population time-series data. Annual Meeting of Ecological Society of Japan, Sendai, Japan
- Zhou, C.\* , Fujiwara, M., Grant, W.E. (2015) A comparison of statistical methods for testing species interactions from short and noisy time series data, Annual Meeting of American Fisheries Society, Portland, OR

- Zhou, C.\*, Fujiwara, M., Grant, W.E. (2015) A comparison of statistical methods for testing species interactions from short and noisy time series data, Annual Meeting of Ecological Society of America, Baltimore, MD
- Fujiwara, M. (2015) Evolution of Life History Strategies under Consumer Resource Interactions, Annual Meeting of American Fisheries Society, Portland, OR
- Fujiwara, M. (2015) Demographic Diversity and Community Dynamics, Annual Meeting of Ecological Society of America, Baltimore, MD
- Fujiwara, M. (2015) Demographic Diversity and Community Dynamics, Annual Meeting of Ecological Society of Japan, Kagoshima, Japan
- Zhou, C.\*, and Fujiwara, M. (2014) Identifying bottom-up and top-down control of fisheries in the Gulf of Mexico: a new method for analyzing non-stationary, multivariate time series data, Annual Meeting of American Fisheries Society, Quebec, Canada
- Fujiwara, M. (2014) Mean and variance of densities of stochastic, density-dependent, stage-structured populations, Annual Meeting of Ecological Society of America, Sacramento, CA.
- Millberry, C.\*\*\*, Fujiwara, M. (2013) Brown shrimp catch per unit effort and environmental variables in the Gulf of Mexico, Texas, Undergraduate Research Day at the Capitol, Austin, TX
- Millberry, C.\*\*\*, Nance, J. Hart, R., and Fujiwara, M. (2013) Association between brown shrimp (*Farfantepenaeus aztecus*) catch per unit effort and environmental variables, Annual Meeting of the Texas Chapter American Fisheries Society, Conroe, TX
- Fujiwara, M. (2012) Demographic diversity and sustainable fisheries: Toward understanding the effects of fishing pressures, Annual Meeting of Texas Chapter of American Fisheries Society, Galveston, TX
- Zhou, C.\*, and Fujiwara, M. (2012) Dynamics of a predator-prey interaction with seasonal reproduction and continuous predation, Annual Meeting of American Fisheries Society, St. Paul, MN
- Zhou, C.\*, Zhu, Q., Fujiwara, M. and Liu, H. (2011) Population characteristics of *Coreius guichenoti* (Sauvage et Dabry) in the upper reaches of Yangtze River. Annual Meeting of Ecological Society of America, Austin, TX
- Sun, M.\*\* and Fujiwara, M. (2011) Application of matrix methods to climate effect on duck breeding populations. Annual Meeting of Ecological Society of America, Austin, TX.
- Fujiwara, M., Greenberg, A, and Mohr, M. (2010), Effects of myxozoa disease on population dynamics of Klamath fall Chinook salmon, Klamath Basin Science Conference, Medford, OR.
- Fujiwara, M., Greenberg, A., and Mohr, M. (2009) Mathematical model for infection of juvenile salmon with trematodes. Annual Meeting of Ecological Society of America, Albuquerque, NM.
- Fujiwara, M. and Mohr, M. (2007) Effects of environmental factors on fall-run Chinook salmon (*Oncorhynchus tshawytscha*) within the Klamath Basin. Annual Meeting of Ecological Society of America, San Jose, CA.
- Fujiwara, M. (2006) Population fluctuations intrinsic to life-history strategies of animals. Annual Meeting of Ecological Society of America, Memphis, TN.
- Fujiwara, M., Nisbet, R.M., and Kendall, BE (2004) On the estimation of parameters in an energetic-based individual growth model from size trajectory data using a non-linear forecasting method. Annual Meeting of Ecological Society of America, Portland, OR.

- Fujiwara, M. and Caswell, H. (2001) Demography of North Atlantic right whales. The North Atlantic Right Whale Consortium Annual Meeting, Boston, MA.
- Fujiwara, M., Neubert, M., and Caswell, H. (2001) Estimating dispersal kernel from mark-recapture data. Annual Meeting of the Society for Mathematical Biology, Hilo, HI.
- Fujiwara, M., Neubert, M., and Caswell, H. (2001) Estimating dispersal kernels from mark-recapture data. Annual Meeting of Ecological Society of America, Madison, WI.
- Fujiwara, M. and Caswell, H. (2000) Causes of declining trend in the survival rate of the North Atlantic right whale. The Annual Meeting of Ecological Society of America, Snowbird, UT.
- Fujiwara, M. and Caswell, H. (1999) Estimating stage-structured models from mark-recapture data: methods and applications to an endangered whale population. Annual Meeting of Ecological Society of America, Spokane, WA.
- Fujiwara, M., Caswell, H., and Brault, S. (1999) Stage-structured demography of the North Atlantic right whale: estimation, model selection, and inference. 13th Biennial Conference on the Biology of Marine Mammals, Maui, HI.

\* *PhD student*

\*\* *M.S. student*

\*\*\* *Undergraduate*

### **Invited Workshop**

- The Keyfitz Centennial Symposium on Mathematical Demography (2013)
- Kemp's Ridley Sea Turtle Stock Assessment (2012)
- International Whaling Commission Scientific Workshop on Status and Trends of Western North Atlantic Right Whales (1999)

### **Workshop and Symposium Organized**

- Symposium at National Meeting of Society for Advancement of Chicano and Native Americans in Science, San Antonio, Texas (2018)  
**Session Title:** Fisheries, Wildlife, and Conservation Biology: Interaction between Science and Policy
- Symposium at National Meeting of Society for Advancement of Chicano and Native Americans in Science, Long Beach, California (2016)  
**Session Title:** Fisheries, Wildlife, and Conservation Biology: Interaction between Science and Management
- Ecological Modeling Session, Institute for Applied Mathematics and Computer Science and King Abdullah University of Science and Technology Spring Symposium, Saudi Arabia (2012)
- Red Sea Ecology Session, Institute for Applied Mathematics and Computer Science, College Station, TX (2011)

### **Service**

#### **Editorial Board**

- *PLoS One* 2017-

#### **Reviewer**

*Journal Review*

•*The American Naturalist* •*Biological Conservation* •*Conservation Biology* •*Canadian Journal of Fisheries and Aquatic Sciences* •*Ecological Modelling* •*Ecological Research* •*Ecology* •*Ecology Letters* •*Journal of Functional Ecology* •*Journal of Animal Ecology* •*Journal of Applied Ecology* •*Journal of Ecology* •*Journal of Marine System* •*Limnology and Oceanography* •*Marine Mammal Science* •*Marine Ecology Progress Series* •*Methods in Ecology and Evolution* •*Nature* •*PeerJ* •*PLOS One* •*Population Ecology* •*Theoretical Ecology* •*Theoretical Population Biology* •*Transactions of American Fisheries Society*

#### Technical Document Review

- *Assessment of Sea-Turtle Status and Trends, Integrating Demography and Abundance*, National Research Council (2010)
- Report by the Instream Flow Assessment Program Team of Pacific State Fisheries Management Council (2010)
- Trends in abundance and survival for polar bears from southern Hudson Bay, Canada, 1984-2005, USGS (2007)

#### Proposal Review

- NSF DEB
- NOAA Marine Fisheries Initiative Proposal
- Natural Sciences and Engineering Research Council of Canada Proposal
- The Marsden Fund Council (The Royal Society of New Zealand) Proposal
- Arctic-Yukon-Kuskokwim Sustainable Salmon Initiative Proposal

#### Review Panel

- EPA Star Fellowship Panel

#### Other Reviewer Function

- Reviewer for session proposals for 2019 ESA Annual Meeting

#### **Other Service**

##### Student Organization Advisor

- Texas A&M Chapter of Society for Advancement of Chicano and Native American in Science (SACNAS), advisor, 2012-

##### Department, College, and University Service

- College of Agriculture and Life Sciences Awards Committee, 2019
- Administrative Structural Change Ad hoc Advisory Committee, 2018-2019
- Search committee chair for fish ecologist, 2016-2017
- Undergraduate wildlife curriculum committee, 2016-2018
- Legacy committee, 2016-2019
- Departmental advisory committee, 2016-2019
- TAMU Marine Biology Independent Program, Curriculum Committee, 2016 - 2017
- TAMU Faculty Senate, 2015 (February - July)
- Distance education committee, 2012-2017
- Undergraduate fisheries curriculum committee, 2012-2019
- New hire committee, 2014-2015

- Search committee for wetland avian ecologist, 2014-2015

Other Service Activities

- Chair for Statistical Ecology Section of Ecological Society of America (ESA), 2019-
- ESA Council Member, 2019-
- Vice Chair for Statistical Ecology Section of Ecological Society of America, 2017-2019
- Secretary for Theoretical Ecology Section of Ecological Society of America, 2013-2015
- Volunteer for SACNAS National Conference (2011-)
  - Poster Presentation Judge (5)
  - Abstract/Travel Grant Review (5)
  - Oral Presentation Judge (1)
  - Conversation with Scientists (5)