

Yuying Zhang

Research & Working Experience

Assistant Professor, Marine Sciences Program, Department of Biological Sciences, Florida International University, Biscayne Bay Campus 2011~present
North Miami, FL, USA
(Postdoctoral) Research Associate, School of Marine Science and Technology, University of Massachusetts, Dartmouth 2009~2011
Fairhaven, MA, USA

Education

PhD in Interdisciplinary Program (oceanography, statistics and computer science) at the University of Maine 2005~2010
MS in Oceanography at the University of Maine 2003~2005
BS in Computer Science and Technology at the East China University of Science and Technology (ECUST) 1999~2003

Publications

Zhang, Y., Y. Li and Y. Chen. Modeling the dynamics of ecosystem for the American lobster in the Gulf of Maine. *Aquatic Ecology* (in press).

Zhang, Y. and S. X. Cadrin. Estimating effective sample size for length frequency distributions from Georges Bank groundfish samples: a comparative study. *Transactions of the American Fisheries Society* (in press).

Zhang, Y. and Y. Chen. The effectiveness of harvest control rules in managing the Gulf of Maine American lobster (*Homarus americanus*) fishery. *North American Journal of Fisheries Management* (in press)

Zhang, Y., Y. Chen, J. Zhu, S. Tian and X. Chen, 2013. Evaluating different harvest control rules for bigeye tuna (*Thunnus obesus*) and yellowfin tuna (*Thunnus albacares*) fisheries in the Indian Ocean. *Fisheries Research* 137: 1-8.

Li, Y. and **Y. Zhang**, 2012. Fisheries impact on the East China Sea Shelf ecosystem for 1969-2000. *Helgoland Marine Research* 66: 371-383.

Zhang, Y., Y. Chen and C. Wilson, 2011. Developing and evaluating harvest control rules with different biological reference points for the American lobster fishery in the Gulf of Maine. *ICES Journal of Marine Science* 68: 1511-1524.

- Zhang, Y.**, Y. Chen and Y. Chang, 2011. Estimating biological reference points using individual-based per-recruit models for the Gulf of Maine American lobster, *Homarus americanus*, fishery. *Fisheries Research* 108: 385-392.
- Zhang, Y.**, D. Brzezinski, J. Chang, K. Stepanek and Y. Chen, 2011. Spatial structuring of fish community in association with environmental variables in the Coastal Gulf of Maine. *Journal of Northwest Atlantic Fishery Science* 43: 47-64.
- Chang, Y., C. Sun, Y. Chen, **Y. Zhang** and S. Yeh, 2011. Incorporating climate changes into population dynamic modeling: an individual-based modeling approach for lobster. *Canadian Journal of Fisheries and Aquatic Sciences* 68: 122-136.
- Zhang, Y.**, 2010. Stock assessment and harvest control rules evaluation for American lobster (*Homarus americanus*) in the Gulf of Maine. PhD Thesis, University of Maine, Orono, ME.
- Zhang, Y.** and Y. Chen, 2007. Modeling and evaluating ecosystem in 1980s and 1990s for American lobster (*Homarus americanus*) in the Gulf of Maine. *Ecological Modeling* 203: 475-489.
- Zhang, Y.**, 2005. Ecological modeling of American lobster (*Homarus americanus*) population in the Gulf of Maine. MS Thesis, University of Maine, Orono, ME.
- Zhang, Y.**, Y. Chen, J. Zhu, S. Tian and X. Chen. Evaluating effectiveness of biological reference points for Bigeye tuna (*Thunnus obesus*) fishery and Yellowfin tuna (*Thunnus albacares*) fishery in the Indian Ocean (submitted to *Fishery Bulletin* for peer-review).

Projects

- PI: Florida International University: Management strategy evaluation for bigeye tuna and yellowfin tuna fisheries in the Atlantic Ocean, 8,333 US Dollars (2012)
- PI: Shanghai Ocean University: Developing and evaluating biological reference points for bigeye tuna and yellowfin tuna in the Indian Ocean, 100,000 Chinese Dollars (2008~2010)
- Involved: University of Rhode Island: Mid-Atlantic Research Set-Aside (2011) (Skrobo L. et al.)
- Involved: Mass marine fisheries institute: Massachusetts-based sustainable fisheries research. (2009~2011) (Kevin Stokesbury et al.)
- Involved: Shanghai Ocean University: Stock assessment models and its effectiveness on Tuna fisheries management. (2010~2012) (Zhu J. et al.)
- Involved: Maine Lobster Advisory Committee: Testing biological reference point for the American lobster. (2004~2005) (Chen Y.)
- Involved: Maine Sea Grant: Developing and evaluating biological reference points for the American lobster (*Homarus americanus*) fishery management. (2006~2008) (Chen Y.)
- Involved: Maine Sea Grant: Modeling ecosystem dynamics for American lobster (*Homarus americanus*) in the Gulf of Maine. (2008~2010) (Chen Y. and C. Wilson)

Invited Seminars

- NOAA Southeast Fisheries Science Center:** Miami, FL Dec. 2011
Title: Fisheries management strategy evaluation: Are we making good decisions?
- Florida Fish and Wildlife Conservation Commission:** St Petersburg, FL Nov. 2011
Title: Management strategy evaluation for American lobster fisheries.
- Michigan State University:** East Lansing, MI Apr. 2011
Title: Developing and evaluating harvest control rules with different biological reference points for the American lobster fishery.

Teaching

- BSC4711: Fisheries Science (Spring 2012)
BSC5927: R programming for Biologist (Spring 2012, Fall 2012)
OCB2003: Introduction to Marine Biology (Fall, 2012)
OCB6716: Fisheries Population Dynamics (scheduled)

Selected Contributed Presentations (since 2006)

- 63rd Tuna Conference:** Lake Arrowhead, CA May 2012
Title: Evaluating effectiveness of harvest control rules and biological reference points for Bigeye tuna (*Thunnus obesus*) and Yellowfin tuna (*Thunnus albacares*) fisheries in the Indian Ocean
- 141th American Fisheries Society annual meeting:** Seattle, WA Sep. 2011
Title: Evaluating performance of a survey index for stock assessment
- 140th American Fisheries Society annual meeting:** Pittsburgh, PA Sep. 2010
Title: Developing an individual based model for estimating biological reference points for the Gulf of Maine American lobster fishery
- 140th American Fisheries Society annual meeting:** Pittsburgh, PA Sep. 2010
Title: Estimating effective sample size of size composition for groundfish trawl-survey samples in the Georges Bank: a comparative study
- 139th American Fisheries Society annual meeting:** Nashville, TN Sep. 2009
Title: Developing and evaluating management control rules with different biological reference points for the American lobster fishery
- International Symposium on Ecological Improvement, Conservation and Evaluation for Coastal Habitats:** Shanghai, China Oct. 2008
Title: Demersal fish community and their habitat in the coastal Gulf of Maine, USA
- 5th World Fisheries Congress:** Yokohama, Japan Oct. 2008

- Title: Spatial Dynamics of Demersal Fish Community in the coastal Gulf of Maine, USA
138th American Fisheries Society annual meeting: Ottawa, Canada Aug. 2008
Title: Development of a user-friendly stock assessment model for the American lobster
137th American Fisheries Society annual meeting: San Francisco, CA Sep. 2007
Title: Developing and Evaluating Biological Reference Points for the American Lobster
Fishery Management
136th American Fisheries Society annual meeting: Lake Placid, NY Sep. 2006
Title: Dynamics of Lobster Ecosystem in the Gulf of Maine

Journal Reviews (since 2011)

- 2 Fisheries Research papers 1 Ecological Applications
5 Ecological Modelling papers 1 Fishery Modernization paper
2 Journal of Ocean University of China

Professional Services

- Evolutionary Developmental Biologist Search Committee Member,**
Florida International University 2012
Seminar Series Organizer, Florida International University 2011~2012
Marine Genetics Search Committee Member,
Florida International University 2011
Symposium Organizer, American Fisheries Society, Pittsburgh, PA Sep. 2010
Session Moderator, American Fisheries Society, Pittsburgh, PA Sep. 2010
Seminar Series Organizer, University of Massachusetts, Dartmouth Spring 2010
Interpreter, PEW Fellows, Phippsburg, ME Oct. 2009

Honor & Awards

- Summer Faculty Development Awards** Florida International University 2012
International Student Tuition Scholarship University of Maine, 2006~2010
Provost Scholarship University of Maine, 2005~2006
most prestigious scholarship for new graduate students at University of Maine
TOP Posters University of Maine 2005
in Graduate Research Expo
Comprehensive Scholarships ECUST, 2000~2003
Excellent Social Service Scholarship ECUST, Jun. 2001