

Resume (Yong Chen)

1. Contact Information

Address: 218 Libby Hall, School of Marine Sciences, University of Maine, Orono, ME 04469
Tel: (207) 581-4303; **Fax:** (207) 581-4388; **email:** ychen@maine.edu

2. Education

| <i>Degree</i> | <i>Year</i> | <i>Major</i> | <i>Institution</i> |
|----------------------|-------------|---|-------------------------------|
| Bachelor of Agric. | 1983 | Fisheries Sciences | Ocean Univ. Qingdao, China |
| Master of Science | 1991 | Zoology (Fish Ecology) | University of Toronto, Canada |
| Doctor of Philosophy | 1995 | Zoology (Fish. Pop. Dynam.) Minor in Statistics | University of Toronto, Canada |

3. Appointments

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|------------------------|---------------------------------|--|
| Sept. 2007 – present | Professor | University of Maine |
| Sept. 2003 – Aug. 2007 | Associate Professor | University of Maine |
| July 2000 – Aug. 2003 | Assistant Professor | University of Maine |
| May 2001 – present | Adjunct Professor in Biology | Memorial University |
| July 1997 – June 2000 | Assistant Professor | Memorial University of NSERC Associate Chair in Fish. Conserv. Newfoundland, Canada |
| May 1996 – July 1997 | Senior Population dynamicist | NSW Fisheries, Australia |
| June 1995 – May 1996 | Fisheries Population Dynamicist | NSW Fisheries, Australia |

NSW=New South Wales, NSERC =Natural Science and Engineering Research Council of
Canada

4. Publications

4.1. Fix publications most closely related to the proposed project (names with * are my students or postdoc)

- Chen, Y.,** C. L. Sun, and *M. Kanaiwa. 2008. Impacts of prior mis-specification on Bayesian fisheries stock assessment. Freshwater and Marine Research 59:145-156.
- *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.
- Chen, Y.,** L. Xu, X. Chen, and X. Dai. 2007. A simulation study of impacts of at-sea discarding and bycatch on the estimation of biological reference points F_{0.1} and F_{max}. Fisheries Research 85:14-22.
- Chen, Y.,** S. Sherman, C. Wilson, J. Sowles, and *M. Kanaiwa. 2006. A comparison of two fishery-independent survey programs in characterizing population structure of American lobster, *Homarus americanus*, in the Gulf of Maine. Fishery Bulletin 104:247-255.
- Chen, Y.,** *M. Kanaiwa, and C. Wilson. 2005. Developing a Bayesian stock assessment framework for the American lobster fishery in the Gulf of Maine. New Zealand Journal of Freshwater and Marine Sciences (Special issue on Lobster Biology and Management) 39:645-660.

4.2. Other five publications related to this project (names with * are my students or postdoc)

- *Kanaiwa, M., **Y. Chen,** and C. Wilson. 2008. Evaluating a seasonal, sex-specific size-structured stock assessment model for the American lobster, *Homarus americanus*. Freshwater and Marine Research (in press).
- Chen, Y.,** *Y. Jiao, and L. Chen. 2003. A general approach to developing robust frequentist and Bayesian stock assessment methods in fisheries. Fish and Fisheries 4:105-120.
- Chen, Y.,** L. Chen, and K. Stergiou. 2003. Quantity of fisheries data and uncertainty in stock assessment Aquatic Sciences 65:92-98.
- Chen, Y.** and M. Hunter. 2003. Assessing the green sea urchin (*Strongylocentrotus drobachiensis*) stock in Maine, USA. Fisheries Research 60:527-537.
- Chen, Y.** and C. Wilson. 2002. Evaluation of uncertainty associated with biological reference point F_{10%} for the American lobster (*Homarus americanus*) fishery in the Gulf of Maine. Canadian Journal of Fisheries and Aquatic Sciences 59: 1394-1403.

5. Synergistic Activity

- (1) Served Associate Editor of Canadian Journal of Fisheries and Aquatic Sciences since 2007;

- (2) Member of the Atlantic State Marine Fisheries Commission (ASMFC) Lobster Model Development Committee;
- (3) Published 67 original research articles on peer-reviewed journals since 1992;
- (4) Named as a Canada Foundation for Innovation (CFI) Researcher in 1999;
- (5) Appointed as a Fisheries Conservation Consultant by Kuwait government to evaluate the impacts of the Gulf War on its fisheries resources;
- (6) Appointed as the Canadian NSERC-Industrial Associate Chair for Fisheries Conservation;
- (7) Reviewed papers for 16 peer-reviewed journals including Canadian Journal of Fisheries and Aquatic Sciences, Ecological Modeling, Fishery Bulletin, Fisheries Research, Freshwater and Marine Research, Aquatic Living Resources, ICES Journal of Marine Science, Ecological Application, Transactions of AFS, etc.;
- (8) Reviewed grant proposals for NSF, NSERC, Alaska, NH, and Maryland Sea Grant programs, and various other funding agencies;
- (9) Presented at over 100 scientific, industrial, professional, and governmental meetings/conferences/seminars since 1992 (invited or contributed);
- (10) Completed or currently conducting over 40 funded research projects since 1997;
- (11) Taught graduate and undergraduate courses in fisheries sciences (SMS 321), fisheries population dynamics (SMS 562), spatial statistics (SMS 598, SMS 599), applied multivariate statistics (SMS 598, SMS599), general statistics (STAT 2500 at the Memorial University of Newfoundland), and quantitative methods in fisheries (MMS 6002 at Memorial University).

6. Collaborations and Other Affiliations

6.1. Collaborators (past 48 months incomplete list):

P. Breen (NIWA, New Zealand), P. He (UNH), M. Hunter (Maine DMR), L. Mercer (Maine DMR), D. Jackson (Univ. Toronto), L. Jacobson (NEFSC, NMFS, Woods Hole), Y. Jiao (Virginia Tech.), S. Sherman (Maine DMR), P. Snelgrove (Memorial Univ, Canada), C-L Sun (National Taiwan Univ.), R. Wahle (Bigelow Lab), C. Wilson (Maine DMR), X. Chen and L. Xu (Shanghai Ocean University), A. Thomas, H. Xue, and J. Wilson (UMaine), D. Holland and J. Grabowski (GMRI)

6.2. The PI's Graduate and Post Doctoral Advisors

MS Advisor: Dr. H. H. Harvey (Univ. of Toronto, Canada),

Ph.D Advisor: Dr. J. E. Paloheimo (Univ. of Toronto, Canada),

No postdoctoral advisors (I took a job in the NSW Fisheries Department, Australia)

6.3. Thesis Advisor and Postgraduate-Scholar Sponsor

Graduate students who have completed their degrees under my advice since 2000: Y. Zhao (MS), H. Rajakarun (MS) and Y. Jiao (PhD) in Marine Biology at the Memorial Univ. of Newfoundland; K. Scheirer (MS) in Marine Policy, R. Grabowski (MS), S. Kirshenbaum (MS), K. Jones (MS), K. Reardon (MS), Mike Errigo (PhD) and A. Jordaan (PhD) in Marine Biology, Y. Zhang (MS) in Oceanography (UMaine)

Current graduate students: D. Couture (MS), K. Stepanek (MS), D. Brzezinski (MS), J-H. Chang (PhD), D. Olson (MS), C. Bergeron (MS), C. Muffet (MS), S. Trusdell (MS), C. Wilson (PhD) and A. Al-Humaidhi (MS) in Marine Biology, and Y. Zhang (PhD) in Inter-disciplinary Program.

Postdoc Research Associates and visiting students advised: Dr. Thomas Windholz (2001), Dr. Minoru Kanaiwa (2002 - 2005), Dr. Ying Xue (2005 - 2006), Dr. Siquan Tian (2007-2008), Yijay Chang (visiting PhD student from Taiwan University 2008- 2009), Yukai Li (visiting PhD student 2007-2008), and Yong Liu (Research Associate, 2008-2009)