

Douglas B. Sigourney
Curriculum Vitae

Program in Wildlife and Fisheries Conservation
Holdsworth Natural Resources Center
University of Massachusetts
Amherst, MA 01003

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EDUCATION

Ph.D. Candidate Wildlife and Fisheries Conservation. University of Massachusetts
Expected Graduation Date: March, 2007
Major Advisor: Dr. Benjamin H. Letcher

MS Wildlife and Fisheries Conservation. University of Massachusetts
Graduation Date: February, 2002
Major Advisor: Dr. Michael R. Ross

BS Zoology. University of New Hampshire, 1998

ACADEMIC/PROFESSIONAL EXPERIENCE

- 2006 **Instructor**, University of Massachusetts
Class: *Fishery Science and Management*
Prepared and presented course material
Prepared and presented laboratories exercises
- 2004 & 2005 **Co-instructor**, University of Massachusetts
Class: *Analysis of mark-recapture data*
Prepared and presented course material
Prepared and presented laboratories exercises
- 2004 **Government Contractor**, USGS/BRD
Project: *Software Development*
Helped design a computer program
using Microsoft Visual Basic to aid in an Atlantic
salmon breeding program.
- 2001-present **Research Assistant**, University of Massachusetts
Doctoral research: *Growth and survival of juvenile Atlantic salmon*
Implemented a mark-recapture study of juvenile Atlantic
salmon in a small stream in eastern Canada.
Served as crew leader for annual electrofishing surveys
Aided in sampling of migrating adult Atlantic salmon
- 1999-2002 **Research Assistant**, University of Massachusetts
Masters thesis: *Population dynamics of Atlantic halibut*

Aged Atlantic halibut using otoliths
Collected scientific survey data from NEFSC database

- 1999 **Teaching Assistant**, Shoals Marine Laboratory
Class: *Ecology of Marine Fishes*
Advised students on experimental design and statistical analysis
Assisted professor in grading assignments and tests
- 1998-1999 **East/West Marine Biology Program**, Northeastern University
Independent project: *Territorial behavior of Damsel fish*
Designed experimental protocol
Collected data using SCUBA and behavioral observation
Analyzed data using a nested ANOVA
Completed a written report and presented findings
- 1998 **Volunteer Technician**, Great Bay Aquaculture Farm, Portsmouth, NH
Aided with set up of tanks
Aided in maintenance and set up of equipment
- 1997 **Teaching Assistant**, University of New Hampshire
Class: *Vertebrate Morphology*
Helped organize laboratory exercises
Assisted professor in grading assignments and tests

PUBLICATIONS

- Gamble, L.R., McGarigal, K., **Sigourney, D.B.**, Timm, B.C. 2009. Survival and breeding frequency in Marbled salamanders (*Ambystoma opacum*): Implication for spatio-temporal population dynamics *Copeia* (**in press**)
- Sigourney, D.B.**, Letcher, B.H., Obedzinski, M., Cunjak, R.A. 2008. Size-independent growth in fishes: patterns, models and metrics. *Journal of Fish Biology* 75: 2435-2455
- Sigourney, D.B.**, Letcher, B.H. and Cunjak, R.A. 2006. Effects of beaver activity on growth and life history of juvenile Atlantic salmon. *Transactions of the American Fisheries Society* 135:1068-1075
- Sigourney, D.B.**, Ross, M.R., Brodziak, J. and Burnett, J. Growth, sexual maturity and distribution of Atlantic Halibut (*Hippoglossus hippoglossus* L.) in the Gulf of Maine-Georges Bank region. 2006. *Journal of Northwest Atlantic Fishery Science* 36:81-90
- Sigourney, D.B.**, Horton, G., Wendolowski, A., Dubreuil, T., and Letcher, B.H. 2005. Electroshocking and PIT tagging juvenile Atlantic salmon: Are there interactive

effects on growth and survival? *North American Journal of Fisheries Management*
25:1016-1021

PRESENTATIONS

September 2006. A dynamic energy budget approach to modelling individual growth trajectories of juvenile Atlantic salmon. Annual meeting of the American Fisheries Society. Lake Placid, NY.

June 2005. The effects of beaver activity on growth and life history of juvenile Atlantic salmon. Southern New England Chapter of AFS. Connecticut Department of Environmental Management, Old Lyme, Connecticut. Summer Meeting.

June 2004. Annual variation in juvenile growth within three populations of Atlantic salmon. Southern New England Chapter of AFS. University of Rhode Island, Kingston, RI. Summer Meeting.

August 2003. Seasonal Variation in Juvenile Growth Among Three Populations of Atlantic Salmon. American Fisheries Society International Symposium. Quebec City, Canada.

February 2003. Electroshocking and PIT tagging juvenile Atlantic salmon: Are there interactive effects on growth and survival?. Connecticut River Migratory Fish Restoration Research Forum. Hadley, MA

January 2003. Age and growth, sexual maturity and distribution of Atlantic Halibut (*Hippoglossus hippoglossus* L.) in the Gulf of Maine-Georges Bank region. Southern New England Chapter of AFS. Ramada Inn, Auburn, MA. Winter Meeting

FINANCIAL AWARDS

Roger J. Reed Memorial Research Fund Scholarship(\$400) -Spring 2007

Atlantic Salmon Federation Olin Fellowship (\$1,000) – Spring 2004

Richard Cronin Fisheries Scholarship (\$450) - Spring 2000

RELEVANT COURSE WORK

Modern Statistical Methods, Multivariate Statistics in Natural Resources Science, Professional Grant Proposal Writing, Analysis of Vertebrate Populations, Intermediate Biostatistics, Fish

Population Dynamics and Management, Fisheries Oceanography, Imaging in Fisheries Science, Population Ecology, Calculus, Mathematical Statistics

COMPUTER/ANALYICAL SKILLS

PROGRAM MARK

MATLAB

VISUAL BASIC

EXCEL

MICROSOFT ACCESS

STATISTICA

SAS

PROFESSIONAL SOCIETIES

American Institute for Fishery Research Biologists

American Fisheries Society

American Society for Ichthyologists and Herpetologists

Society for Conservation Biology

Ecological Society of America

REFERENCES

Dr. Benjamin H. Letcher

U.S. Geological Survey/Biological Resources Division

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Dr. Michael R. Ross

Professor, Wildlife and Fisheries Conservation

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