

Steven Y. Litvin

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Education

Ph.D. Candidate, Graduate School of Oceanography, Rutgers, The State University

M.S., Graduate School of Ecology of Evolution, Rutgers, The State University, 1997
Thesis Title: "Habitat Utilization by Juvenile Winter Flounder and Tautog as Indicated by Carbon and Nitrogen Stable Isotopes"

B.S., Biology, Ecology Option, The Pennsylvania State University, 1993

Experience

9/02 – Present	<i>Graduate Assistant/Teaching Assistant (Oceanographic Methods):</i> Department of Oceanography, Rutgers, The State University, New Brunswick, NJ
3/99 – Present	<i>Research Associate:</i> New Jersey Marine Sciences Consortium Ft. Hancock, NJ
9/00 – 6/03	<i>QA/QC and Information Manager:</i> New Jersey component, EPA National Coastal Assessment (Coastal 2000) Program
1/97 – 2/99	<i>Associate Director:</i> New Jersey Sea Grant College Program New Jersey Marine Sciences Consortium, Ft. Hancock, NJ
6/98 – 2/99	<i>Acting Director:</i> New Jersey Sea Grant Extension New Jersey Marine Sciences Consortium, Ft. Hancock, NJ
9/93 – 9/95	<i>Graduate Assistant:</i> COP/NOAA Grant, Institute of Marine and Coastal Sciences, Rutgers, The State University, New Brunswick, NJ
1/92 – 5/93	<i>Bio-monitoring Laboratory Assistant:</i> Department of Biology, The Pennsylvania State University, University Park, PA
5/88 – 8/93	<i>Summer Research Assistant:</i> Department of Physics, The Pennsylvania State University, Berks Campus, Wyomissing, PA

Grants

New Jersey Water Resources Research Institute

Graduate Student Grants-In-Aid

Effects of the “Biopollutant”, *Phragmites australis*, On the Nutritional Status (Biochemical Condition) of Juvenile Weakfish “

2001 – 2001: \$4,500

2002 – 2003: \$5,000

Awards

Ketchum Award

Best graduate student research presentation, New England Estuarine Research Society Spring Meeting, 1996

Publications

Litvin, S.Y. and M.P. Weinstein. Multivariate analysis of sulfur, carbon and nitrogen stable isotopes as an indicator of nutrient flow from primary producers to juvenile weakfish (*Cynoscion regalis*) in the Delaware Bay estuary. (Submitted)

Weinstein, M.P., **Litvin, S.Y.** and V.G. Guida. Considerations of habitat linkages, estuary landscapes, and trophic spectrum in wetland restoration design. *Journal of Coastal Research*. (In Press)

Litvin, S.Y. and M.P. Weinstein. 2003. Life history strategies of estuarine nekton: the role of marsh macrophytes, benthic microalgae, and phytoplankton in the trophic spectrum. *Estuaries* 26(2B): 552 – 563.

Weinstein, M.P., **S.Y. Litvin**, K.I. Bosley, C.M. Fuller and S.C. Wainright. 2000. The role of tidal salt marsh as an energy source for juvenile marine transient finfishes: a stable isotope approach. *Transactions of the American Fisheries Society*. 129: 797 – 810 (Nominated for *Best Paper Award*, 2000 volume of *TAFS*)

Litvin, D.B., **S.Y. Litvin**, and V. Janovec. 1995. Magnetic completely transposable twin-laws and tensor distinction. *Acta Crystallographica*. A51: 524.

Litvin, D.B., V. Janovec, and **S.Y. Litvin**. 1994. Non-ferroelastic magnetoelectric twin laws. *Ferroelectric*. 162: 275.

Litvin, S.Y. and D.B. Litvin. 1993. Layer GPD: A program to visualize the layer groups. *Journal of Applied Crystallography*. 26: 498.

Litvin, S.Y. and D.B. Litvin. 1991. Rank 0,1, 2, and 3 magnetic and non-magnetic physical property tensors. *Acta Crystallographica*. A47: 290.

Litvin, S.Y. and D.B. Litvin. 1990. Physical-property tensors and tensor pairs in crystals. *Acta Crystallographica*. A46: 711.

Litvin, S.Y., A.B. Romberger, and D.B. Litvin. 1988. Generation and experimental measurement of a one-dimensional quasi-crystal diffraction pattern. *American Journal of Physics*. 56: 1.

Litvin, S.Y. and D.B. Litvin. 1986. One-dimensional quasi-crystals and sequences of ones and zeros. *Physics Letters A*. 116: 39.

Abstracts and Seminars

- Litvin, S.Y.**, Weinstein, M.P. and V.G. Guida. 2003. Habitat utilization patterns of a juvenile marine transient: effects on biochemical condition and implications on the value of habitat for fish production. *Estuarine Research Federation Biannual Meeting*. September 14 – 18. Seattle, WA.
- Noji, C., Adams, D.A., Kurtenbach, J.P., **Litvin, S.Y.** and M.P. Weinstein. 2003. Assessing the ecological condition of Barnegat Bay – Little Egg Harbor: a preliminary comparison of multimetric and multivariate condition indices based on data from the EPA National Coastal Assessment *Estuarine Research Federation Biannual Meeting*. September 14 – 18. Seattle, WA.
- Weinstein, M.P., **Litvin, S.Y.** and V.G. Guida. 2003. Restoring “function” in degraded marshes: habitat linkages and trophic pathways for marine transients. *Restore Americas Estuaries Inaugural Conference on Coastal and Estuarine Habitat Restoration*. April 13-16. Baltimore, MD.
- Litvin, S.Y.**, Guida, V.G., Weinstein, M.P. and S. Thorrold. 2002. Exploring the effects of estuarine habitat utilization patterns on the biochemical condition of juvenile marine transients. *American Fisheries Society Annual Meeting*. August 18 – 22. Baltimore, MD. (*Invited Paper*).
- Litvin, S.Y.**, Guida, V.G., and M.P. Weinstein. 2002. The use of thin layer chromatography with flame ionization detection (TLC/FID) to assess the biochemical condition of juvenile weakfish in Delaware Bay. *American Society of Limnology and Oceanography*. June 10 – 14. Victoria, BC, Canada.
- Weinstein, M.P., **Litvin, S.Y.** and C.A. Currin. 2002. *Phragmites australis* and the marsh paradigm: A review of the use of stable isotopes to evaluate the flow of nutrients from primary producers to consumers. Technical Forum and Workshop – *Phragmites australis: A sheep in wolf’s clothing?* January 6 – 9. Vineland, NJ (*Invited*).
- Litvin, S.Y.**, Guida, V.G., and M.P. Weinstein. 2001. Trophic Linkages And Relative Importance Of Salt Marsh Habitats To Resident And Marine Transient Finfish In Delaware Bay: A Stable Isotope And “Biochemical Condition” Approach. *Estuarine Research Federation Biannual Meeting*. November 4 – 8. Saint Petes Beach, FL.
- Weinstein, M.P. and **S.Y. Litvin**. 2001. Marine transients and the coastal conveyor belt: the role of estuarine “bouillabaisse” in recruitment success. *Estuarine Research Federation Biannual Meeting*. November 4 – 8. Saint Petes Beach, FL. (*Invited Paper*)
- Litvin, S.Y.**, Guida, V.G., and M.P. Weinstein. 2001. Trophic Linkages and Relative Importance of Marsh Habitats to the Production of Finfish in Delaware Bay. *57th Annual Northeast Fish and Wildlife Conference*. April 22 – 25. Saratoga Springs, NY.
- Litvin, S.Y.**, Weinstein, M.P., Wainright, S.C., Bosley, K.L., and C.M. Fuller. 1999. Was Teal Right? – The Marsh Paradigm Revisited (II). *Estuarine Research Federation Biannual Meeting*. September 25-30. New Orleans, LA.

- Weinstein, M.P., Wainright, S.C., Currin, C.C., **Litvin, S.Y.**, Bosley, K.L., and C.M. Fuller. 1999. Was Teal Right? – The Marsh Paradigm Revisited. *Estuarine Research Federation Biannual Meeting*. September 25-30. New Orleans, LA.
- Weinstein, M.P., S.C. Wainright, **S.Y. Litvin**, C.A. Currin and K.W. Able. 1999. Nutrient flow from tidal salt marsh flora to marine transient finfishes in Delaware Bay: A multiple stable isotope approach. *20th Annual Meeting of the Society of Wetland Scientists*. July 7 – 11. Norfolk, VA. (Invited Paper)
- Wainright, S.C., Able, K.W., **Litvin, S.Y.**, Studholme, A.L., and A. Calabrese. 1997. Trophic Linkages Between Different Estuarine Habitats and Juvenile Winter Flounder, as Determined Using Stable Isotope Ratios. *Estuarine Research Federation Biannual Meeting*. October 12-16. Providence, RI.
- Litvin, S.Y.**, Wainright, S.C., Able, K., Phelan E., Periera, J., and Goldberg, R. 1996. Habitat Utilization by Young of the Year Winter Flounder and Tautog as Indicated by Stable Isotope Ratios. *American Society of Ichthyologists & Herpetologists Annual Meeting*. June 13-19. New Orleans, LA.
- Litvin, S.Y.**, Wainright, S.C., Able, K., Phelan E., Periera, J., and Goldberg, R. 1996. Habitat Utilization by Young of the Year Winter Flounder and Tautog and Inter-Estuary Differences as Indicated by Stable Isotope Ratios. *New England Estuarine Research Society*. May 10-11. Poughkeepsie, NY
- Litvin, S.Y.**, Wainright, S.C., Able, K., Phelan E., Periera, J., and Goldberg, R. 1995. Habitat Utilization by Young of the Year Winter Flounder and Tautog as Indicated by Stable Isotope Ratios. *Estuarine Research Federation Biannual Meeting*. November 12-16. Corpus Christi, TX.
- Litvin, S.Y.** 1995 Stable Isotopes as an Indicator of Habitat Utilization. *Princeton/Rutgers Graduate Student Seminar in Ecology and Evolution*. October 7. Princeton, NJ.
- Litvin, S.Y.** and S.C. Wainright. 1994. Habitat Utilization by Juvenile Winter Flounder as Indicated by Stable Isotope Ratios. *Flatfish Biology Workshop*. December 6-7. Mystic, CT.

Technical Reports

- Litvin, S.Y.**, Guida, V.G., and M.P. Weinstein. 2001. A Comparison of the Nutritional Status of Juvenile Weakfish, *Cynoscion regalis*, From Restored and Relatively Undisturbed Tidal Salt Marshes (Year 2)
- Litvin, S.Y.**, Guida, V.G., and M.P. Weinstein. 2000. A Comparison of the Nutritional Status of Juvenile Weakfish, *Cynoscion regalis*, From Restored and Relatively Undisturbed Tidal Salt Marshes (Year 1)
- Weinstein, M.P., **Litvin, S.Y.**, Wainright, S.C., Bosley, K.L., and C.M. Fuller. 1999. Stable Isotope and RNA-DNA Analysis of Juvenile Fish in Open Bay and Tidal Marsh Habitats of Delaware Bay.

Professional Activities

- Co-Organizer Special Issue: *Phragmites australis*: A Sheep in wolf's clothing?
Estuaries 26(2B), April 2003.
- Steering Committee Concepts and Controversies in Tidal Marsh Ecology, an
International Symposium. April 5-9, 1998. Vineland, NJ.
- Treasurer/Co-Founder Oceanography Graduate Student Organization, Rutgers, The State
University (2002-2003)
- Member Citizens Advisory Committee, New York/New Jersey Harbor
Estuary Program. (1997 – 1999)

Associations

- American Fisheries Society
Estuarine Research Federation
American Society of Limnology and Oceanography