

Curriculum Vitae



Sara Ana Adlerstein González

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Education

1956-1968	Licée de l'Alliance Française, Concepción, Chile.
1969-1971	B.A. Instituto de Biología, Universidad de Concepción, Chile.
1972-1974	M.S. Instituto de Biología, Universidad de Concepción, Chile.
1983-1986	M.S. School of Fisheries University of Washington, Seattle, USA.
1986-1992	Ph.D. School of Fisheries, University of Washington, Seattle, USA.

Professional experience

Employment record

2009-present	Associate Research Scientist. School of Natural Resources and Environment, University of Michigan, Ann Arbor, USA.
2001-2009	Assistant Research Scientist. School of Natural Resources and Environment University of Michigan, Ann Arbor, USA. Adjunct Research Scientist. US Geological Survey-Great Lakes Science Center. Ann Arbor, USA.
1995-2001	Associate Research Scientist. Inst. für Hydrobiologie und Fishereiwissenschaft, Universität Hamburg, Hamburg, Germany.
1991-1995	Fisheries Biologist. International Pacific Halibut Commission, Seattle, USA.
1985-1991	Associate Investigator. University of Washington Fisheries Research Institute. Seattle, USA.
1979-1983	Fisheries Biologist. Subsecretaría de Pesca, Santiago, Chile.
1977-1978	Assistant Professor. Forestry School, Pontificia Universidad Católica de Chile, Talca, Chile.
1976-1977	Assistant Professor. Botany Dept., Universidad de Concepción, Chile.
1974-1975	Research Associate. Microbiology Dept., Universidad de Concepción, Chile.
1971-1973	Teaching Assistant. Botany Dept., Universidad de Concepción, Chile.

Other professional experience

- 2004-current Independent evaluator for Marine Stewardship Council. Several evaluations as P3 and P2 expert. Contracts under Scientific Certification Systems, MRAG, Intertek Moody, and Acoura Marine.
- 2008 Faculty Associate for the Program in the Environment, University of Michigan.
- 2008 Affiliate Research Scientist, Universidad del Mar, Valparaiso, Chile.
- 2003 Independent expert, European Commission, Brussels.
- 2002 Participant: ICES Working Group of the International Bottom Trawl Surveys, Dublin.
- 2001 Participant: ICES Working Group of the International Bottom Trawl Surveys, Copenhagen
- 1999 Participant. ICES Study Group to Evaluate Effects of Multispecies Interactions. Lowestoft.
- 1998 Independent expert. European Commission, Brussels.
- 1997 Participant. ICES Multispecies Assessment Working Group. Copenhagen.
- 1996 Participant. ICES 1991 Stomach Sampling Database Working Group. Ijmuiden.
- 1992-1994 Fisheries Consultant. Seafloor Surveys International, Seattle: Use of fishery information to help selecting location of underwater cables.
- 1978-1979 Fisheries Consultant. Institute of Natural Resources (IREN), Santiago de Chile: Project: Flora and Fauna of Chile. Assessment of Chilean freshwater phanerophytes and phytoplankton and their economic potential.

Teaching experience

- 2017-2018 *Nature, Culture and Landscape*, School for Environment and Sustainability, University of Michigan.
- 2015-2016 *Restoration Ecology*, Program in the Environment, University of Michigan.
- 2015 *Cultura y Naturaleza*, Spanish Readings, Residential College, University of Michigan.
- 2014 *Mapping your Story*. PitE Winter Workshops. Program in the Environment, University of Michigan
- 2013 *Nature, Culture and Landscape*, Program in the Environment, University of Michigan.
- 2010 *Messing with messy data*, School of Natural Resources and Environment. University of Michigan.
- 2007-2008 *Sustainable Energy Development in South America*, College of Engineering, University of Michigan.
- 2006 *Perspectives on Creativity*. Residential College, University of Michigan.
- 2004 *Perspectives on Creativity and Consciousness*. Residential College, University of Michigan.
- 2003 *artEco*. School of Art and Design, University of Michigan.
- 2002 *Use of GLM for analysis of fishery data*. IFOP, Valparaíso, Chile.

- 2000 *Use of GLM for analysis of fishery data*. IFOP, Valparaíso, Chile.
 1977 *Botany, Plant Physiology*. Pontificia Universidad Católica de Chile.
 1978 *Phytoplankton*. Universidad de Concepción, Chile.
 1971-1973 *Phytoplankton & Botany*. Teaching Assistant. Universidad de
 Concepción, Chile.

Selected publications

- Adlerstein, S.A.** 1979. Phytoplankton of the Maule River Basin. Master Thesis, Universidad de Concepción, Chile.
- Adlerstein, S.A.** 1986. Age and Growth of *Concholepas concholepas*. Master Thesis, University of Washington, Seattle.
- Francis, R.C., **S.A. Adlerstein**, and R. Brodeur. 1988. Biological basis for management of commercial fishery resources of Eastern Bering Sea. In W.S.Wooster [ed.] Fishery science and management. Lecture notes on coastal and estuarine studies. Vol.28. Springer-Verlag, New York, NY.
- Francis, R.C., **S.A. Adlerstein**, and A. Hollowed. 1989. Importance of environmental fluctuations in the management of Pacific hake (*Merluccius productus*) in R.J. Beamish and G.A. McFarlane [ed.] Can.Spec.Publ.Fish.Aquat.Sci. 108: 51-56.
- Adlerstein, S.A.** 1992. Interactions between *Kudoa paniformis* and the offshore Pacific whiting (*Merluccius productus*) population. PhD Dissertation, University of Washington, Seattle.
- Adlerstein, S.A.**, and R.J. Trumble. 1993. Management implications of changes in by-catch rates of Pacific halibut and crab species caused by diel behaviour of groundfish in the Bering Sea. ICES Journal, Mar. Sci. Symp. 196: 211-215.
- Sullivan, P.J., R.J. Trumble, and **S.A. Adlerstein**. 1994. Pacific halibut bycatch in the groundfish fisheries: Effects on and management implications for the Pacific halibut fishery. Scientific Report No XX, International Pacific Halibut Commission.
- Escos, J., C.L. Alados, J.M. Emlen, and **S.A. Adlerstein**. 1995. Developmental instability as an indicator of natural stress in the Pacific hake parasitized by *Kudoa spp*. Transactions of the American Fisheries Society 124: 943-945.
- Adlerstein, S.A.**, and R.J. Trumble. 1998. Pacific halibut bycatch in Pacific cod fisheries in the Bering Sea: an analysis to evaluate area-time management. Journal of Sea Research 39(1998) 153-166.
- Ehrich, S., **S.A. Adlerstein**, S. Götz, N. Mergardt, and A. Temming. 1998. Variation of meso scale fish distribution in the North Sea. ICES C.M. 1998/J:25, 13pp.
- Adlerstein, S.A.**, and R.J. Trumble. 1998. Size specific dynamics of Pacific halibut: a key to reduce bycatch in the groundfish fisheries in the Bering Sea. Scientific Report. International Pacific Halibut Commission. 35pp.
- Adlerstein, S.A.**, and M. Dorn. 1998. The effect of *Kudoa paniformis* infection on the reproductive effort of female Pacific hake. Canadian Journal of Zoology 76: 2285-2289.
- Goñi, R., F. Alvarez, and **S.A. Adlerstein**. 1999. Application of generalized linear modelling to catch rate analysis of western Mediterranean fisheries: the Castellón fleet as a case study. Fisheries Research 42: 291-302.

- Kafemann, R., **S.A. Adlerstein**, and R. Neukamm. 2000. Variation in otolith strontium and calcium ratios as indicator of life-history strategies of freshwater fish species within a brackish water system. *Fisheries Research* 46(2000): 313-325.
- Adlerstein, S.A.**, and H. Welleman. 2000. Diel variation of stomach contents of North Sea cod (*Gadus morhua*) during a 24 h fishing survey: An analysis using Generalized Additive Models. *Canadian Journal of Fisheries and Aquatic Sciences* 57(12): 2363-2367.
- O'Brien, C., **S. Adlerstein** and S. Ehrich. 2000. Accounting for spatial-scale in research surveys: analyses of 2 year old cod from English, German and International groundfish surveys in the North Sea. ICES C.M. 2000/K:19. 14 pp.
- Adlerstein, S. A.** and, S. Ehrich. 2001. Influence of hydrographic conditions on diel variation of cod catches in North Sea bottom trawl surveys. ICES C.M. 2001/Q:02. 17 pp.
- Petitgas, P., **S. Adlerstein**, and S. Ehrich. 2001. Allocation of survey effort between small and large scale and precision of fisheries survey-based abundance estimates. ICES C.M. 2001/P:17. 14 pp.
- Adlerstein, S.**, and S. Ehrich. 2002. Effect of deviation from vessel target speed over ground, trawl speed through water and time of day on catch rates of several fish species in North Sea surveys. *ICES Journal of Marine Science* 59:594-603.
- Adlerstein, S. A.**, A. Temming, and N. Mergardt. 2002 Comparison of stomach contents of haddock from the 1981 and 1991 North Sea International Stomach Sampling Projects. *ICES Journal of Marine Science*, 59: 497-515.
- Adlerstein, S. A.**, and S. Ehrich. 2003. Patterns in diel variation of cod catches in North Sea bottom trawl surveys. *Journal of Fisheries Research* 63:169-17.
- Goñi, R., **S. Adlerstein**, F. Álvarez, M. García, P. Sánchez, M. Sbrana, F. Maynou, **and C. Viva**. 2004. Recruitment indices of European hake, *Merluccius merluccius* (Linnaeus 1758), in the Northwestern Mediterranean based on landings from bottom trawl multispecies fisheries. *ICES Journal of Marine Science* 61: 760-773.
- Adlerstein, S.**, E. Rutherford, J. Clevenger, J. Johnson, D. Clapp, and A. Woldt. 2007. Lake Trout Movement in US Waters of Lake Huron Interpreted from Coded Wire Tag Recoveries in Recreational Fisheries. *Journal of Great Lakes Research* 33(1):186-201.
- Ehrich, S., **S. Adlerstein**, U. Brockmann, J. Floeter, S. Garthe, H. Hinz, I. Kroncke, H. Neumann, H. Reiss, A. Sell, M. Stein, V. Stelzenmuller, C. Stransky, A. Temming, G. Wegner and G. Zauke. 2007. 20 years of the German Small-Scale Bottom Trawl Survey (GSBTS): A review. *Senckenbergiana Maritima*, 37(1) 13-82.
- Adlerstein, S.**, E. Rutherford, D. Clapp, J. Clevenger, and J. Johnson. 2007. Estimating Seasonal Movements of Chinook Salmon in Lake Huron from Efficiency Analysis of Coded Wire Tag Recoveries in Recreational Fisheries. *North American Journal of Fisheries Management* 27: 792-803.
- Adlerstein, S.**, Alvarez, F. and R. Goñi. 2008. Quality Data vs. Analysis? Abundance Indices From a Mediterranean Trawl Fishery As Case Study. Pages 1107-1120 in J. L. Nielsen, J. Dodson, K. Friedland, T. Hamon, N. Hughes, J. Musick, and E. Verspoor, editors. *Proceedings of the Fourth World Fisheries Congress*:

Reconciling Fisheries with Conservation. American Fisheries Society, Symposium 49, Bethesda, Maryland.

- Adlerstein, S.**, E. Rutherford, R. Claramunt, D. Clapp, and J. Clevenger. 2008. Seasonal movements of Chinook salmon in Lake Michigan based on tag recoveries from recreational fisheries and catch rates in gill net assessments. *Transactions of the American Fisheries Society* 137 (3): 736-750.
- Goñi, R., **S. Adlerstein**, D. Alvarez-Berastegui, A. Forcada, O. Reñones, G. Criquet S. Polti, G. Cadiou, C. Valle, P. Lenfant, P. Bonhomme, A. Perez-Ruzafa, J.L. Sánchez-Lizaso, J. García-Charton, G. Bernard, V. Stelzenmüller, S. Planes. 2008. Evidence of spillover from six Western Mediterranean marine protected areas measured from artisanal fisheries. *Marine Ecology Progress Series* 366: 159-174.
- Ehrich, S., V. Stelzenmuller and **S.A. Adlerstein**. 2009. Linking spatial pattern of bottom fish assemblages with water masses in the North Sea. *Physical Oceanography*: 1-15.
- Wright, S., E. Habits, **S. Adlerstein**, O. Parra and J. Semrau. 2009. Graham Scholars Program: Sustainability Education through an Interdisciplinary International Case Study. *Journal of Sustainability Science* (4):29-36.
- Adams, J., S. Riley and **S. Adlerstein**. 2009. Development of fishing power corrections for 12- and 21-m trawls used in the USGS Lake Huron fall bottom trawl survey. – Great Lakes Fishery Commission Report Series, Ann Arbor, MI.
- Fishman D., **S. Adlerstein**, H. Vanderploeg, G. Fahnenstiel, and D. Scavia, 2009. Causes of Phytoplankton Changes in Saginaw Bay, Lake Huron during the Zebra Mussel Invasion. *Journal of Great Lakes Research* 35(4):482-495
- Adlerstein, S.**, Rutherford, E., Clapp, D., Claramunt, R., and J. Johnson. 2009. Seasonal migration of salmonids in the Great Lakes interpreted from coded-wire-tag recoveries. *ICES CM 2009/J:13*. 25 pp
- Fishman, D., **S. Adlerstein**, H. Vanderploeg, G. Fahnenstiel, **S.**, and D. Scavia. 2010. Phytoplankton community composition in Saginaw Bay, Lake Huron, during the zebra mussel (*Dreissena polymorpha*) invasion: A multivariate analysis. *Journal of Great Lakes Research* 36: 9-19.
- Goñi, R. R. Hilborn, D. Díaz, S. Mallol, and **S. Adlerstein**. 2010. Net contribution of spillover from a marine reserve to fishery catches. *Marine Ecology Progress Series*: Vol. 400: 233–243.
- Neeson, T., M. Wiley, **S. Adlerstein**, and R. Riolo. 2011. River network structure shapes interannual feedbacks between adult sea lamprey migration and larval habitation. *Ecological Modelling* 222:3182-3193.
- Neeson, T., R. Riolo, M. Wiley, and **S. Adlerstein**. 2012. How river network structure and habitat availability shape larval sea lamprey distribution. *Ecological Modeling* 226: 62-70.
- Neeson, T., **S. Adlerstein** and M. Wiley. 2012. Towards a Process Domain Sensitive Substrate Habitat Model for Sea Lampreys in Michigan Rivers. *Transactions of the American Fisheries Society* 141:313-326.
- Gruber, B., **S. Alderstein**, P. Badra and M. Herbert. 2012. Distribution and habitat of unionid mussels and invasive sea lamprey larvae in the Paw Paw River, a tributary of Lake Michigan. *Freshwater Biology*(57): 1293-1305.
- Adlerstein, S.**, Nalepa, T. F., Vanderploeg, H. A., and Fahnenstiel, G. L. 2013. Trends in phytoplankton, zooplankton, and macroinvertebrates in Saginaw Bay relative to zebra mussel

(*Dreissena polymorpha*) colonization: A generalized linear model approach. In T. F. Nalepa and D. W. Schloesser (eds.) Quagga and Zebra Mussels: Biology, Impacts, and Control. 2nd Edition. CRC Press, Boca Raton, FL.

- Velez, M., Wondolleck, J., and **Adlerstein**. 2014. Fishers' perceptions, facilitating factors and challenges of community-based no-take zones in the Sian ka'an biosphere reserve, Quintana roo, Mexico. *Marine Policy* 45:171-18.
- Kao, Y., **Adlerstein**, S., and E., Rutherford. 2014. The Relative Impacts of Nutrient Loads and Invasive Species on a Great Lakes Food Web: An Ecopath with Ecosim Analysis. *Journal of Great Lakes Research* 40 (1): 35-52.
- Kao, Y., **Adlerstein**, S., and E., Rutherford. 2016. Assessment of top-down and bottom-up controls on the collapse of alewives (*Alosa pseudoharengus*) in Lake Huron. *Ecosystems*. DOI: 10.1007/s10021-016-9969-y. Published online 14 March 2016.

Technical Reports

- 1987 **Adlerstein, S.** Status of the Pacific whiting resources in 1987 and recommendations for management in 1988. NOAA Tech. Memo. F/NWC, 50 pp.
- 1988 **Adlerstein, S.** Whiting Parasite Study. Fisheries Research Technical Reports, U. of Washington, Seattle, USA.
- 1992 **Adlerstein, S.** Comparison of yield loss produced by Pacific halibut by-catch in trawl longline, and pot cod fisheries in the Bering Sea. IPHC Report of Assessment and Research Activities 1992: 215- 228.
- 1993 **Adlerstein, S.** Spatial and temporal variation of Pacific halibut by-catch in the Pacific cod domestic Fisheries in the Bering Sea and losses inflicted to the halibut fishery. IPHC Report of Assessment and Research Activities 1993: 285-302.
- 1997 **Adlerstein, S. Coordinator** Feeding ecology of North Sea fish with emphasis on the Stomach Sampling Project 1981-1991 data base for use in multispecies assessment. EU contract IRR3-CT94-2410.
- 2000 **Anonym.** Factors affecting catch rates of NW Mediterranean trawl fleet and derivation of standardised abundance indices. EU contract 98-053.
- 2002 **Adlerstein, S.** Working Document for the ICES IBTS Working Group (Dublin 4-8 April 2002). Review of relevant papers presented at theme sessions P, Q and T at 2001 ICES ASC: Implications for IBTS surveys. 10 pp.
- 2002 **Adlerstein, S. and Ehrich S. Coordinators.** Survey-Based Abundance Indices that account for fine spatial scale information for North Sea stocks (FINE). Study 98/029 Scientific Report European Commission, Directorate General Fisheries DG XIV. 845pp.
- 2002 **Adlerstein, S.** Lake trout trofic ecology in Little Moose Lake, NY. Great Lakes Fishery Commission Technical Report. 30pp.
- 2004 **Adlerstein, S. and E. Rutherford.** Analysis of movement patterns of Chinook salmon in Lake Huron and Lake Michigan based on coded wire tags: 1990-2001. Michigan Department of Natural Resources Technical Report. 74pp.
- 2004 **Adlerstein, S.** Analysis of tagging data to quantify lake trout migration in Lake Huron. U.S. Fisheries and Wildlife Technical Report. 97pp.
- 2006 **Anonym.** BIOMEX Biomass Export of Marine Protected areas in the Mediterranean. Final Report. 250 pp.

- 2008 **Adlerstein, S., E. Rutherford, S. C. Riley, R. Haas, M. Thomas, D. Fielder, J. Johnson, J. He, and Ll. Mohr.** Evaluation of Integrated Long-Term Catch Data from Routine Surveys for Fish Population Assessments in Lake Huron, 1973-2004. Great Lakes Fishery Commission. 37 pp.
- 2008 **Adlerstein, S. and E. Silverman.** Quantitative tools to predict sea lamprey production based on habitat: prioritizing dam removal and control decisions. Great Lakes Fishery Commission 75pp.

Selected presentations

- 1982 **Adlerstein, S.** Status of the freshwater fisheries in Chile. Conferencia Latinoamericana de Pesca, COPESCAL. Santo Domingo, Dominican Republic.
- 1987 **Adlerstein, S.** Age and growth of *Concholepas concholepas*: a Chilean snail. School of Fisheries, University of Washington, Seattle, USA.
- 1988 **Adlerstein, S.** Interactions between Pacific whiting (*Merluccius productus*) and two parasites of the genus *Kudoa*. Workshop of Marine Parasitology: Theoretical and Applied Basis for its Development in Latin America. Universidad Católica de Chile, Talcahuano, Chile.
- 1989 **Adlerstein, S.** Interactions between Pacific hake (*Merluccius productus*) and *Kudoa paniformis*. Sixth Western Groundfish Conference, Monterey, California, USA.
- 1989 **Adlerstein S.** and J. Ianelli. Factors affecting Pacific whiting recruitment: cannibalism, a new hypothesis. 40th CalCOFI Conference. La Jolla, California, USA.
- 1992 **Adlerstein, S.** Bye Bye Bycatch. 54th Annual Meeting Pacific Fishery Biologists, Blaine, USA.
- 1992 **Adlerstein, S.** and R. Trumble. Management implications of changes in bycatch rates of Pacific halibut and crab species caused by diel behaviour of groundfish in the Bering Sea. Fish Behaviour in relation to fishing operations: ICES Marine Science Symposium, Bergen, Norway.
- 1993 **Adlerstein, S.** Effects of *Kudoa paniformis* on Pacific whiting. Coastal Oregon Marine Experiment Station, Oregon State University, Astoria, OR.
- 1994 **Adlerstein, S.** Interactions between *Kudoa* and Pacific Whiting: Life cycle, growth and transmission. *Kudoa* Workshop, B.C. Ministry of Agriculture and Fisheries and Pacific Biological Station, Nanaimo British Columbia, Canada.
- 1995 **Adlerstein, S.** Aspects of the host-parasite interaction between *Kudoa paniformis* and Pacific whiting. Universität Hamburg, Germany.
- 1995 Dorn M. and **S. Adlerstein.** Effects of *Kudoa paniformis* on fecundity of Pacific whiting. 46th CalCOFI Conference. La Jolla, CA.
- 1996 **Adlerstein, S., N. Mergardt and A. Temming.** Feeding ecology of haddock in the North Sea. 14th Wakefield Fisheries Symposium Role of Forage Fishes in Marine Ecosystems, Anchorage, AK.
- 1997 **Adlerstein, S.** and R. Trumble. Pacific halibut bycatch in Pacific cod fisheries in the Bering Sea. Third International Symposium on Flatfish Ecology, Texel, The Netherlands.

- 1989 **Adlerstein, S.** Statistical evaluation of stomach contents of North Sea haddock. Invited speaker by the Deutsch Wissenschaftliche Kommission für Meeresforschung. Bundesforschungsanstalt für Fischerei, Hamburg, Germany.
- 1999 **Adlerstein, S.** Feeding ecology of North Sea fish with emphasis on the database of the Stomach Sampling Project 1991 for use in multispecies assessment: An executive summary. A Study Group to Evaluate the Effects of Multispecies Interactions [SGEEMI] Lowestoft, UK.
- 2000 **Adlerstein S.** and S. Ehrlich. Effect of deviation from vessel target speed over ground, trawl speed through water and time of day on catch rates of several fish species in North Sea surveys. ICES Annual Science Conference, Brugge, Belgium.
- 2001 **Adlerstein, S.** and Ehrlich. Influence of hydrographic conditions on diel variation of cod catches in North Sea bottom trawl surveys. ICES Annual Science Conference, Oslo, Norway.
- 2001 **Adlerstein, S.** Diel variation of cod catches in North Sea bottom trawl surveys, Great lakes Science Center, Ann Arbor, MI.
- 2002 **Adlerstein, S.** Use of Modern Regression Methods to estimate abundance indices of Mediterranean hake from fishery data. SNRE PhD Faculty Seminar. University of Michigan, Ann Arbor, Michigan, USA.
- 2004 **Adlerstein, S.** From cell to self: a scientist in the arts SNRE PhD Faculty Seminar. University of Michigan, Ann Arbor, MI.
- 2004 **Adlerstein, S.** When the fish or the fisherman don't cooperate. Aquatic Ecology Seminar. SNRE. University of Michigan, Ann Arbor, MI.
- 2004 **Adlerstein, S.** Factors affecting catch rates of trawl surveys in the North Sea. Instituto Español de Oceanografía, Palma de Mallorca, Spain.
- 2005 **Adlerstein, S.** and E. Rutherford. Movement of Lake trout in Lake Huron based on analysis of coded wire tagging. 48th Annual Conference of the International Association for Great Lakes Research. Ann Arbor, MI.
- 2004 **Adlerstein, S.** Movement of Chinook salmon in Lake Huron based on analysis of coded wire tagging. Lake Huron Technical Committee. Port Huron, MI.
- 2006 **Adlerstein, S.** Impacts of exotic species and nutrient decline on fish community structure and food web linkages in Saginaw Bay, Lake Huron. Invasive Species Workshop. Ann Arbor, MI.
- 2006 **Adlerstein, S.** Spatial temporal distribution of alewives in Lake Huron. Great Lakes Science Center, Ann Arbor, MI.
- 2006 Neeson, T., **S. Adlerstein**, E. Rutherford, M. Wiley, and J. Slade. The effects of local substrate disturbance on distribution and habitat preference of larval sea lampreys. American Fisheries Society Conference, Lake Placid, NY. Presented by Neeson.
- 2007 Fishman, D.B. and **S. Adlerstein**. Phytoplankton changes in Saginaw Bay, Lake Huron during the zebra mussel invasion: An analysis of community composition from 1990-1996. Midwest Fish and Wildlife Conference. Madison. Presented by Fishman.
- 2008 Evaluation of integrated long-term assessment data, Lake Huron 1973-2004. Lake Huron Technical Committee Meeting. Port Huron.
- 2008 Neeson T., **S. Adlerstein**, and M. Wiley. River network structure influences sea

- lamprey distribution in a simple model. International Association of Great Lakes Research Conference, Peterborough, Ont. Canada. Presented by Neeson.
- 2008 **Adlerstein S.**, T. Nalepa and H. Vanderploeg. Zebra mussel impacts on the lower food web in Saginaw Bay, Lake Huron: 1990-1996. International Association of Great Lakes Research Conference, Peterborough, Ont. Canada.
- 2008 **Adlerstein S.** The effects of an invasive species in Great Lakes ecosystem. Instituto Espanol de Oceanografia, Baleares. Palma de Mallorca, Spain.
- 2009 **Adlerstein S.**, B. Diamond and L. Larsen. Urban Sprawl: A Panel Presentation at the 2009 Martin Luther King Symposium, University of Michigan.
- 2009 **Adlerstein, S.** J. Fogel, K. Taylor and C. Vedjes. Mapping the River: a panel presentation. School of Dance and Theater. University of Michigan.
- 2009 **Adlerstein S.** Role of art in environmental education. Facultad de Humanidades, Universidad de Concepcion, Chile.
- 2009 **Adlerstein, S.**, J. Fogel, E., Chambers, K., Taylor, D., Hesseltine, J., Mersereau, and C., Vedjes. Mapping the Huron River. International Association for Great Lakes Research Conference, University of Toledo, Toledo.
- 2009 **Adlerstein, S.**, E. Silverman and J. Slade. Models for distribution of sea lamprey larvae based on habitat. International Association for Great Lakes Research Conference, University of Toledo, Toledo.
- 2009 **Adlerstein, S.**, Evans, J., Hart, M., Hlian, M., Marshall, J. and M. Shtein. Arts and Science. A panel presentation for the Research Experience for Undergraduate program of the National Nanotechnology Infrastructure Network, University of Michigan, Ann Arbor
- 2009 **Adlerstein, S.**, Rutherford, E., Clapp, D., Claramunt, R., and J. Johnson. Seasonal migration of salmonids in the Great Lakes interpreted from coded-wire-tag recoveries. Invited seminar Instituto Espanol de Oceanografia, Baleares. Palma de Mallorca, Spain.
- 2009 **Adlerstein, S.**, J. Fogel, E., Chambers, K., Taylor, D., Hesseltine, J., Mersereau, and C., Vedjes. Mapping the Huron River. Invited seminar Instituto Espanol de Oceanografia, Baleares. Palma de Mallorca, Spain.
- 2009 **Adlerstein, S.**, Rutherford, E., Clapp, D., Claramunt, R., and J., Johnson. Seasonal migration of salmonids in the Great Lakes interpreted from coded-wire-tag recoveries. 2009 Conference of the International Council for the Exploration of the Seas. Berlin.
- 2009 Rutherford, E., **Adlerstein, S.**, and L. Ivan. Modeling impacts of invasive species and nutrient reductions on the food web and fisheries of Saginaw Bay, Lake Huron. Annual Conference of the American Fisheries Society, Nashville, August 2009. Presented by Rutherford.
- 2009 Hohner, B., **Adlerstein, S.**, Badra P., and M., Herbert. Influence of habitat on unionid mussel distribution and abundance in the Paw Paw River, 70th Midwest Fish and Wildlife Conference. Springfield, Illinois. December 2009. Presented by Hohner.
- 2011 **Adlerstein, S.** Ciencia, Arte y Ecología: Key Note Speaker - Escuela de Verano – Mesa de Redonda - Universidad de Concepción, Concepción, Chile.

- 2011 Kao, Y., **Adlerstein S.**, and S., Riley. Identifying the Causal Links among Recent Changes in the Lake Huron Food Web. 2011 International Association for Great Lakes Research Conference. Duluth. Presented by Kao.
- 2011 Carter, G., Riseng C., and **S., Adlerstein**. Benthos population trends across the Great Lakes, 1997-2009. International Association for Great Lakes Research Conference. Duluth. Presented by Carter.
- 2011 Kao, Y., and **Adlerstein S.** Exploring How Invasive Species Have Altered Biomass Flow and Food Web Properties in Lake Huron. Annual Conference of the American Fisheries Society, Seattle. August 2011. Presented by Kao.
- 2013 Kao, Y., Rutherford E., **Adlerstein S.**, and H., Zhang. Relative Impacts of Nutrient Loadings and Invasive Species on Saginaw Bay Food Web: Ecopath with Ecosim Analysis. 2013 International Association for Great Lakes Research Conference, La Fayette. Presented by Kao.
- 2013 **Adlerstein, S.**, Kao Y., Rutherford E., H., Zhang, D., Mason, M., Wiley, A., Steinman, and C., Ruetz. Identifying Tipping Points for GL Coastal Food Webs: A food web model approach. 2013 International Association for Great Lakes Research Conference, La Fayette. Presented by Rutherford.
- 2013 **Adlerstein, S.** Confieso que he pintado: La extraña geometría de caminos paralelos y convergentes. Facultad de Química, Universidad de Concepción.
- 2014 **Adlerstein, S.**, Kao Y., Rutherford E., Zhang, H., and Mason, D. Identifying Tipping Points for a Great Lakes Coastal Ecosystem: A food web model approach. Association for the Sciences of Limnology and Oceanography, Portland Oregon. Presented by Rutherford.
- 2014 Esquivel, M., and **S., Adlerstein**. El proceso de certificación de la Langosta Espinosa de las Reservas de la Biosfera de Sian Ka'an y Banco Chinchorro. World Lobster Conference, Cancún, México. Presented by Esquivel.
- 2016 Kao, Y., **Adlerstein S.**, & Rutherford E. Relative Importance of Top-Down and Bottom-up Effects on the Collapse of Alewife in Lake Huron. 2014 International Association for Great Lakes Research Conference, Canada. Presented by Kao.
- 2017 Adlerstein, S.** For the Climates They are A-changin - Bicentennial Celebration of the University of Michigan MC2 Michigan and the Climate Crisis- SEAS Invited presentation. October 2017.
- 2018 **Adlerstein, S.**, Chambers, E., Fogel, J., Taylor, K. Multimedia performance: a powerful tool to build environmental stewardship appealing to the senses. At the Confluence of Freshwater Science and the Humanities. 2018 Annual Conference -Society for Freshwater Science, Detroit.
- 2018 **Adlerstein, S.** Education and Community Engagement through Arts. Invited Lightning talk. Water@Michigan Water Center, University of Michigan
- 2018 Adlerstein, S.** Art for the Environment: An aquatic scientist becoming hybrid Invited presentation at School of Aquatic Sciences and Fisheries, University of Washington, Seattle.
- 2018 **Adlerstein, S.** Multimedia performance: a powerful tool to build environmental stewardship appealing to the senses. At the Confluence of Freshwater Science and the Humanities. Annual Conference -Society for Freshwater Science, Detroit.

- 2018 **Adlerstein, S.** Arts & Environment Gallery at the School for Environment and Sustainability, a2RU Conference, University of Georgia, Athens.
- 2019 **Adlerstein, S.** Que significa ser Curador de la Bienal Concepción? Bienal 0 Universidad de Concepción, Chile.
- 2019 **Adlerstein, S.** Las Artes y las Ciencias Ambientales: Evolución – Revolución. Bienal 0 Universidad de Concepción, Chile.
- 2019 **Adlerstein, S.** Arts & Sustainability: A personal Vision Converges with a New School Direction, MUSE Conference, University of Michigan.
- 2019 **Adlerstein, S.** Arts & Humanities For Environment & Sustainability: a vision. Arts + Humanities +Environment Lightning Talks School for Environment and Sustainability, University of Michigan..
- 2019 **Adlerstein S.** Magical Creatures of the Huron River – Lightning talk -Water Center University of Michigan, Urban Waters Water@Michigan.

Poster presentations

- 2004 Alvarez-Berastegui, J. Amengual-Ramis, M. Valls, J. Moreno-Perez, O. Reñones, **S. Adlerstein**, R. Goñi.. Biomass export from marine protected areas (MPAs) and the fisheries at the Cabrera Archipelago National Park. ICES conference, Vigo, Spain.
- 2004 **Adlerstein, S.**, F., Alvarez and R., Goñi. Quality Data vs. Analysis? Abundance Indices From a Mediterranean Trawl Fishery As Case Study, 4th World Fishery Conference, Vancouver, Canada.
- 2004 Alvarez-Berastegui, Valls, J., Moreno-Perez, O., Reñones, **S. Adlerstein**, R. Goñi. Exportació de biomassa de les àrees marines protegides (AMPs) i les pesqueries al Parc Nacional Marítim-Terrestre de l'Arxipèlag de Cabrera (PNMTAC). IV Jornadas de medioambiente de las Baleares, Mallorca, Spain.
- 2008 Neeson, T., **S. Adlerstein**, and M. Wiley. Regression tree modeling of sea lamprey ammocoete habitat in Michigan rivers. International Association of Great Lakes Research conference, Peterborough, Ont. Canada.
- 2008 Kao, Y., C. DeMarchi, **S. A. Adlerstein**, and M. J. Wiley. Comparison of Two Hydrological Models Used in the Great Lakes Basin. International Association of Great Lakes Research conference, Peterborough, Ont. Canada.
- 2011 Singer, J., **Adlerstein and K.** Riseng. Trends in the Benthic Community of Saginaw Bay. UROP Symposium, University of Michigan. Blue Ribbon award.
- 2013 Gottschalk, E., N. Maxted, J. Oehrli, and **S. Adlerstein**. Children, Books and the Environment. 2013 UROP Symposium, University of Michigan.
- 2014 Brown, J., L. Gazley, E. Yerington and **S. Adlerstein**. Children, Books and Our Planet. 2014 UROP Symposium, University of Michigan.
- 2018 Eisenberg, J., Mayer, J., Musil, K., **Adlerstein S.**, and Keeler K. Larval Feeding Ecology and Zooplankton abundance in Northeastern Lake Michigan. University of Michigan UROP Symposium
- 2018 Musil, K., Mayer, J., Eisenberg, J., **Adlerstein, S.** Feeding Ecology of Larval Cisco (*Coregonus artedi*) in Northeastern Lake Michigan. University of Michigan UROP Symposium.

- 2018 **Adlerstein, S.**, Mayer, J., Curotto, N., McWherter, B., Papias, P., Skrbina, J., Rockmore, I., Li, J., Jacobson Eckert, A., Partland, I., Gutierrez, H., Novayanti. R. Creating Children Books as Educational Tools towards Sustainability. MUSE Conference University of Michigan.
- 2018 Mayer, J., **Adlerstein, S.**, Smith J., and Keeler K. Feeding Ecology of Larval Cisco (*Coregonus artedi*) in Northeastern Lake Michigan Stewardship Network Conference. The Science, Practice and Art of Restoring Native Ecosystems. Lansing.
- 2018 **Myers C.**, and others. The River in Our City. Interdisciplinary Performance. Produced by C. Myers in collaboration with V., Smith and R. Grese. MCubed Symposium. November 2017.

Other Scholarly outputs

- 2008 **Adlerstein, S.**, Chambers, E., Fogel, J. Hesselstine, D., Taylor, K., and C. Vedejs. Mapping the Huron River: A collaborative multimedia performance on the cycle of water and the relationship of water and culture. Duderstadt Video Studio. Art & Earth Program at the University of Michigan.
- 2010 **Outreach Video** - Student Research at SNRE.
- 2011 **Arte, Ciencia y Ecología.** Organizer and Panelist. January 20th - Round Table - Summer School, Universidad de Concepcion, Chile.
- 2011 **Arts and the Environment Colloquium.** Organizer – March 19-20th – University of Michigan –Museum of Art.
- 2012-present **Art and Environment Gallery.** Director and Curator. School of Natural Resources and Environment. University of Michigan; ongoing.
- 2015 **Into the Wind** Fogel, J. Project Director. A collaborative multimedia performance. Presented at the Power Center University of Michigan and at several other indoor and outdoor locations in Muskegon and Ann Arbor.
- 2019 **Belle Isle and Beyond.** Fogel J. Project Director. Belle Isle Nature Center. Environmental literacy through the arts- Workshops and Performance.
- 2019 **Arts+Humanities+Environment Lightning Talks,** SEAS, University of Michigan, Organizer and presenter.
- 2019 **Curator Bienal One 2020** Concepcion, Chile.

Awards

- 1981 Tinker Foundation Fellowship.
- 1981 Overseas Fisheries Organization Foundation (Japan) Fellowship.
- 1983 Comisión Nacional para la Ciencia y Tecnología CONICIT, Chile.
- 1986 American Association of University Women Educational Foundation Fellowship.
- 1987 Fisheries Memorial Scholarship, College of Ocean and Fishery Science. University of Washington.
- 1987 International Women's Fishing Association Scholarship Trust.
- 1989 Graduate School Scholarship, University of Washington.
- 2017 Nominated for Golden Apple award for teaching, University of Michigan.
- 2018 Nominated for Outstanding Teaching Award - School for Environment and Sustainability, University of Michigan.

Current & Recently Completed Sponsored Research Projects

Towards comprehensive databases and coordinated fish surveys for ecosystem management in the Great Lakes. PI. Co-PIs Johnson, He, Michigan Department of Natural Resources, Schaeffer, Riley, US-Geological Survey; Mohr, Ontario Ministry of Natural Resources. *Sponsor:* Michigan Department of Natural Resources, \$118,500

Quantitative tools to predict sea lamprey production on habitat: prioritizing dam removal and control decisions. PI. Co-PIs Rutherford, Wiley, Silverman, U of Michigan, Jones, Michigan State University; Zorn, Michigan Department of Natural Resources. *Sponsor:* Great Lakes Fishery Commission, \$159,500.

Analysis of Tagging Data to Quantify Lake Trout Migration in Lake Michigan. PI. Co-PIs Rutherford, U of Michigan; Clapp, Jones, Michigan Department of Natural Resources; Netto US Fish and Wildlife Service. *Sponsor:* Great Lakes Fishery Trust, \$120,381.

Great Lakes Biological Monitoring - zooplankton, benthos, chlorophyll. Co-PI. Co-PIs Johengen, Jude, Carter, Hensler, Riseng, Wiley, U of Michigan. *Sponsor:* Environmental Protection Agency-Great Lakes National Program, \$2,499,267.

Communicating Great Lakes Science. Sponsor :National Science Foundation – in collaboration with Michigan Sea Grant – Lawrence Hall of Science, University of California, \$64,000.

Tipping Points, Co-PI. CoPIs Rutherford, Mason, NOAA-GLRL; Wiley, Riseng University of Michigan. *Sponsor:* Environmental Protection Agency-Great Lakes National Program \$35,000.

Great Lakes Invaders and Food Webs. PI. Co-PIs Yaffee, Wondolleck, Princen, DeYoung, University of Michigan; Jones, Lupi, Michigan State University; Su, Johnson, Thomas, Michigan Department of Natural Resources; Schroeder, Bohling, Vaccaro, Michigan Sea Grant. *Sponsor:* Environmental Protection Agency- Great Lakes Restoration Initiative, \$214,319.

Great Lakes GIS/Food webs. Co-PI. Co-PIs Rutherford, Zhang, NOAA-GLRL. *Sponsor:* Environmental Protection Agency-Great Lakes National Program. \$11,738.

Advancing Offshore Wind Power Siting through Multi-criteria Assessment Integration. CoPI. CoPIs Kelly, Keoleian, Moore, SNRE University of Michigan. Sponsor NSF. \$27,000.

Integrative Assessment of Cisco Restoration in Lake Michigan. PI. Co-PIs Wondolleck, Wiley, University of Michigan; Randall Claramunt, David Clapp, Michigan Department of Natural Resources; Charles Bronte, US Fish and Wildlife Service. Sponsor Michigan Sea Grant. \$ 175,000.

Developing a Recovery Strategy for Chilean Hake. PI. Co-PI. Erica Cunningham, EDF.
Sponsor Environmental Defense Fund- Graham Institute. \$20,000.

Magical Creatures of the Huron River. PI. Water Center, Graham Institute \$5,000.

Belle Isle and Beyond, CoPI. Ginsberg Center, \$10,000.