

CURRICULUM VITAE

JOHN R. WALDMAN

Current Position and Contact Information:

Professor, Biology Department, Queens College, NSB D-320, 65-30 Kissena Boulevard, Queens, NY 11367-1597; (t) 718-997-3603, (f) 718-997-3445; john.waldman@qc.cuny.edu

Education

- Ph.D. Biology, 1986. Graduate School of the City University of New York and The American Museum of Natural History: *Joint Program in Evolutionary Biology*
M.S. Marine and Environmental Sciences, 1981. Long Island University
B.A. Biology, 1978. Herbert H. Lehman College, City University of New York

Awards

Most Significant Paper, Transactions of the American Fisheries Society, 1997 (vol. 126:369-385);
New York Society Library Award in Natural History, 2000, for *Heartbeats in the Muck*;
Norcross Wildlife Conservation Award, 2004; New York Conservation Leader Award, Wildlife Conservation Society, 2012.

Professional Experience

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| Senior Scientist
1987-2004 &
Staff Biologist
1984-1987 | Hudson River Foundation for Science and Environmental Research,
New York |
| Field Biologist
1983-1984 | New Jersey Marine Sciences Consortium for the West Side Highway
(Westway) Study |
| Research Assistant
1982-1983 | The City University of New York, University Dean for Faculties |
| Sportfishing Surveyor
1978-1979 | Human Science Resources; McLean, Virginia (for NMFS Survey) |
| Surveyor, Central
Long Island Zone, 1978 | National Marine Fisheries Service, Atlantic Bluefin Tuna Survey |

Academic Affiliations

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| Research Associate
1993-present | Department of Ichthyology, American Museum of Natural History |
| Adjunct Professor
1994-present | Doctoral Program in Biology, The Graduate School,
The City University of New York |
| Adjunct Professor
1995-present | Department of Biology, Long Island University |
| Adjunct Professor
1996-2003 | Marine Sciences Research Center, State University of New York
at Stony Brook |

Grants and Contracts

- City College Biology Department Graduate Research Grants, 1983 and 1985.
- Meristic and Morphometric Characterization of Atlantic Migratory Striped Bass Stocks. \$22,995. Emergency Striped Bass Study, 1989.
- Investigations of the Stock Structures of Delaware River and Hudson River Striped Bass. \$15,000. Emergency Striped Bass Study, 1990. (with I. Wirgin).
- Mixed-Stock Analysis of Atlantic Coast Striped Bass, 1991. \$38,000. National Fish and Wildlife Foundation.
- Mitochondrial DNA Analysis of Gulf Sturgeon Populations. \$10,000. Gulf States Marine Fisheries Commission, 1992. (with I. Wirgin).
- Sampling for Chemicals in Fish, Shellfish and Crustacea of the New York-New Jersey Harbor Estuary. \$50,000. USEPA Harbor Estuary Program, 1993.
- DNA Analysis of Atlantic and Gulf Sturgeon Populations and Mixed Assemblages. \$160,000. New York State Sea Grant, 1993-1995. (with I. Wirgin).
- Test of Identification Methods for Larval Striped Bass and White Perch. \$38,000. Consolidated Edison Co., 1995.
- Fishery and Ecology of Striped Bass Wintering in the Thermal Plume of the LILCO Northport Power Plant. \$2500 fellowship for Kimberly Williams M.S. study, The Sounds Conservancy Grants Program, QLF Center for the Environment, 1995.
- Genetic Structure, Status, and Mixed Stock Analysis of Atlantic Sturgeon in the Southeastern U.S. \$214,000. Salstonall-Kennedy Program, 1996-1997. (with I. Wirgin, G. Rogers, and M. Collins).
- Mixed-Stock Analysis of Wintertime Aggregations of Striped Bass Along the Mid-Atlantic Coast. \$129,000. Salstonall-Kennedy Program, 1996-1997. (with I. Wirgin).
- Stock Identification and Mixed Stock Analysis of Winter Flounder (*Pleuronectes americanus*). \$197,000. New York Sea Grant Institute, 1997-2002. (with I. Wirgin).
- Population Genetics of the Federally Endangered Shortnose Sturgeon. \$110,000. Sea Grant - NOAA Partnership Program for Strategic Research and Development, 1997-1999. (with I. Wirgin and J. Boreman).
- Ukraine Watershed Protection Initiative. \$51,000. U.S. Environmental Protection Agency, 1997.
- Stock Structure of Atlantic Cod in U.S. Waters Based on Microsatellite Analysis. \$102,595. MARFIN. 2000-2002. (with I. Wirgin).
- Population Genetics of Sea Lamprey. \$30,000. New York State Sea Grant, 2000-present. (with I. Wirgin).
- Support for Shad 2001: *A Conference on the Status and Conservation of Shads*. \$10,000, National Fish and Wildlife Foundation; \$7,500, Norcross Wildlife Foundation; \$5,000, Hudson River Estuary Management Program; \$5,000, Maryland Sea Grant; \$2,500, Chesapeake Bay Program; \$2,000, South Carolina Department of Natural Resources; \$1,500, Pennsylvania Fish and Boat Commission. 2001. (with K. Limburg).
- Genetic Studies on Shortnose Sturgeon *Acipenser brevirostrum*. \$24,999. National Marine Fisheries Service. 2001-2002. (With I. Wirgin).
- Manager - Hudson River Striped Bass Tag Recovery Program, Contracts from New York Power Authority totaling \$1,100,000 from 1984-2004.
- The Crash of Winter Flounder Stocks in the New York City Region: Long-Term Changes in Growth and Recruitment. \$3271. CUNY PSC-CUNY, 2005-2006.
- The Double-Crested Cormorants of New York Harbor: Demographics, Ecology, and Interactions with Harbor Herons, \$26,550. CUNY PEER Award, 2005-2006.
- Development of a Research Opportunities Catalog for Jamaica Bay. \$30,000. National Park Service, 2006.

Jamaica Bay Bioblitz. \$10,000. National Park Service, 2006 (co-PI with Gillian Stewart).
Biology of the Thames River's Unique Wintering Aggregation of Striped Bass, \$500. Sounds Conservancy, Quebec-Labrador Foundation, 2006.
The Historical Ecology of East Coast Anadromous Fishes, \$2517. PSC-CUNY, 2006.
,Historical Ecology of Mannahatta's Waters, \$49,960. Hudson River Foundation & New England Interstate Water Pollution Control Commission, 2008, (co-PI with Eric Sanderson).
Vulnerability of Hudson River Atlantic Sturgeon to Coastal Bycatches New York Sea Grant. (consultant \$3,200). 2009.
River Herring Otolith Geochemical Markers to Aid in Stock Identification and Conservation. \$184,659. Hudson River Foundation, 2009 (with K. Limburg and S. Thorrold),
Genetic Mixed-Stock Analysis of Coastal American Shad Fisheries. \$147,663. Hudson River Foundation, 2009. (with I. Wirgin).
Satellite Tracking of Double-crested Cormorants. \$3200. Norcross Wildlife Foundation, 2009.
Community Waterbird Monitoring Project. \$20,550. NOAA, subcontract through New York City Audubon, 2010.
Support for Running Silver Project, \$2,500. Furthermore Foundation, 2011.
Regional Partnership for the Bronx River. \$20,000. NOAA, subcontract through Wildlife Conservation Society, 2012.
The Environmental History of Jamaica Bay: a Foundational Monograph. \$47,000. Department of Interior, 2015 (co-PI with W. Solecki).
Understanding the Ins and Outs of American Eel Migration in the Bronx River, a Fragmented Tributary of the Bronx River. \$71,630. Hudson River Foundation, 2015 (co-PI with M. Camhi.)
Anadromous Fish Restoration in East Coast Rivers: The Question of Scale in Fishways . \$2,965. PSC-CUNY, 2016.
The Shared River Concept: Data Acquisition. \$10,000. CUNY CIRG, 2016.
Sharing Rivers to Save Them. \$150,000. JPB Foundation, 2016.
Development of Target Ecosystem Characteristics: Hudson River Tributary Connectivity. \$10,000. The Nature Conservancy, 2016.

Consulting

Ecological survey of Georgica Pond, Easthampton, NY, 1982.
Hudsonia, Ltd.; Annandale, New York, Hudson River larval fish identification, 1983.
De Leuw, Cather/Parsons; Washington DC, 1983; Identified fish species consumed by Indians from skeletal material recovered at a RI archaeological site, 1983.
Marine Stewardship Council; Preassessment Maryland Striped Bass Fishery, 2004.
New York City Department of Environmental Protection; Design of study for effects of shading by piers on fishes of New York Harbor, 2006.
New York City Department of Health; Identification of fish species in Asian fish markets in New York City for contaminants analysis, 2007.
New York City Department of Environmental Protection; Oversight of study for effects of shading by piers on fishes of New York Harbor, 2009-2010.
Great Lakes Environmental Center; Impact Evaluation of Projected DO Deficits in NY-NJ Harbor Estuary, 2016-2017.

Theses

- Waldman, J.R. 1981. An analysis of the age and growth characteristics of three species of sunfish in a reservoir drainage system. M.S. thesis, 91 p.
- Waldman, J.R. 1986. Systematics of *Morone* (Pisces: Moronidae), with notes on the lower percoids. Ph.D. thesis, 160p.

Journal Articles and Book Chapters

- Waldman, J.R. 1984. Striped bass in Gregory's "Fish Skulls" actually a grouper. *Copeia* 1984:793-794.
- Waldman, J.R. 1986. Diagnostic value of *Morone* dentition. *Transactions of the American Fisheries Society* 116:900-908.
- Dunning, D.J., Q.E. Ross, J.R. Waldman, and M.T. Mattson. 1987. Tag retention and tagging mortality in striped bass. *North American Journal of Fisheries Management* 7:535-538.
- Waldman, J.R., J. Grossfield, and I. Wirgin. 1988. A review of stock discrimination techniques for striped bass. *North American Journal of Fisheries Management* 8:410-425.
- Dunning, D., Q.E. Ross, M.T. Mattson, P. Geoghegan, and J.R. Waldman. 1989. Reducing mortality of striped bass captured in seines and trawls. *North American Journal of Fisheries Management* 9:171-176.
- Mattson, M.T., J.R. Waldman, D.J. Dunning, and Q.E. Ross. 1990. Abrasion and protrusion of internal anchor tags in Hudson River striped bass. *American Fisheries Society Symposium* 7:121-126.
- Waldman, J.R., D.J. Dunning, Q.E. Ross, and M.T. Mattson. 1990. Range dynamics of Hudson River striped bass along the Atlantic coast. *Transactions of the American Fisheries Society* 119:910-919.
- Waldman, J.R., D.J. Dunning, and M.T. Mattson. 1990. A morphological explanation for size-dependent anchor tag retention in striped bass. *Transactions of the American Fisheries Society* 119:920-923.
- Waldman, J.R., D.J. Dunning, and M.T. Mattson. 1991. Long-term retention of anchor and internal anchor tags by Hudson River striped bass. *North American Journal of Fisheries Management* 11:232-234.
- Dunning, D.J., Q. Ross, W. L. Kirk, J.R. Waldman, D. Heimbuch, and M.T. Mattson. 1992. Post-juvenile striped bass studies after the Settlement Agreement. Pages 339-347 in C.L. Smith, editor. *Estuarine Research in the 1980s*. State University of New York Press, Albany.
- Waldman, J.R., and R.M. Bailey. 1992. Early occurrence of natural hybridization within *Morone* (Perciformes). *Copeia* 1992:553-559.
- Wirgin, I.I., T.-L. Ong, L. Maceda, J.R. Waldman, D. Moore, and S. Courtenay. 1993. Mitochondrial DNA variation in striped bass (*Morone saxatilis*) from Canadian rivers. *Canadian Journal of Fisheries and Aquatic Sciences* 50:80-87.
- Waldman, J.R., and H. Andreyko. 1993. Variation in patterns of interdigitation among supraneurals, pterygiophores, and vertebral elements diagnostic for striped bass and white perch. *Copeia* 1993:1097-1113.
- Wirgin, I., L. Maceda, J.R. Waldman, and R.N. Crittenden. 1993. Use of mitochondrial DNA polymorphisms to estimate the relative contributions of the Hudson River and Chesapeake Bay stocks to the mixed fishery on the Atlantic coast. *Transactions of the American Fisheries Society* 122:669-684.
- Waldman, J.R., and I.I. Wirgin. 1994. Origin of the current Delaware River striped bass population as shown by analysis of mitochondrial DNA. *Transactions of the American Fisheries Society* 123:15-21.

- Waldman, J.R., and I.I. Wirgin. 1994. Use of DNA analyses in the management of natural fish populations. Pages 29-64 in S. J. Garte, editor. *Molecular Environmental Biology*, Lewis Publishers, Boca Raton.
- Waldman, J.R., and M.F. Fabrizio. 1994. Problems in stock definition in estimating the relative contributions of Atlantic striped bass to the coastal fishery. *Transactions of the American Fisheries Society* 123:766-778.
- Wirgin, I.I., and J.R. Waldman. 1994. What DNA can do for you. *Fisheries* 19(7):16-27.
- Waldman, J.R. 1995. Sturgeons and paddlefishes: a convergence of biology, politics, and greed. *Fisheries* 20(9):20-21, 49.
- Waldman, J.R., and I.I. Wirgin. 1995. Validity of mitochondrial DNA length polymorphisms as a fishery management tool for striped bass. *Transactions of the American Fisheries Society* 124:954-956.
- Wirgin, I., B. Jessop, S. Courtenay, M. Pedersen, S. Maceda, and J.R. Waldman. 1995. Mixed-stock analysis of striped bass in two rivers of the Bay of Fundy as revealed by mitochondrial DNA. *Canadian Journal of Fisheries and Aquatic Sciences* 52:961-970.
- Waldman, J.R., and V. Vecchio. 1996. Selected biocharacteristics of hatchery-reared striped bass captured in New York ocean waters. *North American Journal of Fisheries Management* 16:14-23.
- Waldman, J.R., J.T. Hart, and I.I. Wirgin. 1996. Stock composition of the New York Bight Atlantic sturgeon fishery based on analysis of mitochondrial DNA. *Transactions of the American Fisheries Society* 125:364-371.
- Ong, T.-L., J. Stabile, I. Wirgin, and J.R. Waldman. 1996. Genetic divergence between *Acipenser oxyrinchus oxyrinchus* and *A. o. desotoi* as assessed by mitochondrial DNA sequencing analysis. *Copeia* 1996:464-469.
- Waldman, J.R., K. Nolan, J. Hart, I.I. Wirgin. 1996. Genetic differentiation of three key anadromous fish populations of the Hudson River. *Estuaries* 19:759-768.
- Stabile, J., J.R. Waldman, F. Parauka, and I. Wirgin. 1996. Stock structure and homing fidelity of Gulf sturgeon (*Acipenser oxyrinchus desotoi*) based on restriction fragment length polymorphism and sequence analyses of mitochondrial DNA. *Genetics* 144:767-775.
- Birstein, V.J., W.E. Bemis, and J.R. Waldman. 1997. The threatened status of acipenseriform species: a summary. *Environmental Biology of Fishes* 48:427-435.
- Wirgin, I.I., J.E. Stabile, and J.R. Waldman. 1997. Molecular analysis in the conservation of sturgeons and paddlefish. *Environmental Biology of Fishes* 48:385-398.
- Waldman, J.R., R.A. Richards, W.B. Schill, I. Wirgin, and M. Fabrizio. 1997. An empirical comparison of stock identification techniques applied to striped bass. *Transactions of the American Fisheries Society* 126:369-385.
- Wirgin, I.I., J.R. Waldman, L. Maceda, J. Stabile, and V.J. Vecchio. 1997. Mixed-stock analysis of Atlantic coast striped bass using nuclear DNA and mitochondrial DNA markers. *Canadian Journal of Fisheries and Aquatic Sciences* 54:2814-2826.
- Dunning, D.J., J.R. Waldman, Q.E. Ross, and M.T. Mattson. 1997. Use of Atlantic tomcod and other prey by striped bass in the lower Hudson River during winter. *Transactions of the American Fisheries Society* 126:857-861.
- Wirgin, I., and J.R. Waldman. 1998. Organismic responses to contaminated aquatic systems: four case histories from the Hudson River. Pages 1563-1579 in W. N. Rom, editor. *Environmental and Occupational Medicine*. Lippincott-Raven, Philadelphia.
- Waldman, J.R., and I.I. Wirgin. 1998. Restoration options and prospects for Atlantic sturgeon *Acipenser oxyrinchus* in North America. *Conservation Biology* 12:631-638.
- Wirgin, I., and J.R. Waldman. 1998. Altered gene expression and genetic damage in North American fish populations. *Mutation Research* 399:193-219.

- Waldman, J.R., R.E. Bender, and I.I. Wirgin. 1998. Multiple population bottlenecks and pathological hermaphroditism in a wild population of *Morone saxatilis*. U.S. National Marine Fisheries Service Fishery Bulletin 96:614-620.
- Secor, D.H., and J.R. Waldman. 1999. Historical abundance of Delaware Bay Atlantic sturgeon and potential rate of recovery. American Fisheries Society Symposium 23:203-216.
- Waldman, J.R., J. Young, P. Lindsay, R. Schmidt, and H. Andreyko. 1999. A comparison of alternative approaches to discriminate larvae of striped bass and white perch. North American Journal of Fisheries Management 19:470-481.
- Begg, G.A., and J.R. Waldman. 1999. An holistic approach to fish stock identification. Fisheries Research 43:35-44.
- Waldman, J.R. 1999. The importance of comparative studies in stock concept science. Fisheries Research 43:237-246.
- Wirgin, I., J.R. Waldman, J. Rosko, R. Gross, M.R. Collins, S.G. Rogers, and J. Stabile. 2000. Genetic structure of Atlantic sturgeon populations based on mitochondrial DNA control region sequences. Transactions of the American Fisheries Society 129:476-486.
- Waldman, J.R. 2000. Restoring *Acipenser sturio* L., 1758 in Europe: lessons from the *Acipenser oxyrinchus* Mitchill, 1815 experience in North America. Boletín. Instituto Español de Oceanografía 16:237-244.
- Bain, M., N. Haley, D. Peterson, J. Waldman, and K. Arend. 2000. Harvest and habitats of Atlantic sturgeon *Acipenser oxyrinchus* Mitchill, 1815 in the Hudson River estuary: lessons for sturgeon conservation. Boletín. Instituto Español de Oceanografía 16:43-53.
- Walsh, M.G., M.B. Bain, T. Squiers, Jr., J.R. Waldman, and I. Wirgin. 2001. Morphological and genetic variation among shortnose sturgeon *Acipenser brevirostrum* from adjacent and distant rivers. Estuaries 24:41-48.
- Briggs, P.T., and J.R. Waldman. 2002. Annotated list of fishes reported from the marine waters of New York. Northeastern Naturalist 9(1):47-80.
- Grunwald, C., J. Stabile, J.R. Waldman, R. Gross, and I.I. Wirgin. 2002. Population genetics of shortnose sturgeon, *Acipenser brevirostrum*, based on sequencing of the mitochondrial DNA control region. Molecular Ecology 11:1885-1898.
- Ludwig, A., L. Debus, D. Lieckfeldt, I. Wirgin, N. Benecke, I. Jenneckens, P. Williot, J.R. Waldman, and C. Pitra. 2002. When the American sea sturgeon swam east. Nature 419:447-448.
- Waldman, J.R., C. Grunwald, J. Stabile, and I.I. Wirgin. 2002. Impacts of life history and biogeography on the genetic stock structure of Atlantic sturgeon *Acipenser oxyrinchus oxyrinchus*, Gulf sturgeon *A. o. desotoi*, and shortnose sturgeon *A. brevirostrum*. Journal of Applied Ichthyology 18:509-518.
- Wirgin, I., J. Stabile, J. Waldman, B. Lubinski, and T. King. 2002. Comparison of mitochondrial DNA control region sequence and microsatellite analyses in determining population structure and homing fidelity in Atlantic sturgeon *Acipenser oxyrinchus*. Journal of Applied Ichthyology 18:313-319.
- Waldman, J.R. 2003. Introduction to the shads. American Fisheries Society Symposium Series 35:3-9.
- Navodaru, I., and J.R. Waldman. 2003. Shads of Eastern Europe from the Black Sea: review of species and fisheries. American Fisheries Society Symposium Series 35:69-76.
- Nolan, K.A., J.R. Waldman, and I.I. Wirgin. 2003. Intraspecific and interspecific molecular differentiation of American shad and Alabama shad: a synthesis. American Fisheries Society Symposium Series 35:295-302.
- Waldman, J.R., and K.E. Limburg. 2003. The world's shads: summary of their status, conservation, and research needs. American Fisheries Society Symposium Series 35:363-369.

- Rodríguez-Muñoz, R., J.R. Waldman, C. Grunwald, N. K. Roy, and I. Wirgin. 2004. Mitochondrial DNA variation in sea lamprey between North American and Spanish rivers. *Journal of Fish Biology* 64:783-787.
- Waldman, J.R., C. Grunwald, N.K. Roy, and I.I. Wirgin. 2004. Mitochondrial DNA analysis indicates sea lamprey (*Petromyzon marinus*) indigenous to Lake Ontario. *Transactions of the American Fisheries Society* 133:950-960.
- Waldman, J.R. 2004. Definition of stocks: an evolving concept. Pages 5-14 in S. X. Cadrin, K. Friedland, and J. R. Waldman, editors. *Stock Identification Methods*, Elsevier, San Diego.
- Waldman, J.R. 2004. Meristics. Pages 191-201 in S. X. Cadrin, K. Friedland, and J. R. Waldman, editors. *Stock Identification Methods*, Elsevier, San Diego.
- Wirgin, I., and J.R. Waldman. 2004. Use of nuclear DNA in stock identification: single-copy and repetitive sequence markers. Pages 321-359 in S. X. Cadrin, K. Friedland, and J. R. Waldman, editors. *Stock Identification Methods*, Elsevier, San Diego.
- Wirgin, I., and J.R. Waldman. 2004. Resistance to contaminants in North American fish populations. *Mutation Research* 552:73-100.
- Wirgin, I., D. Currie, N. Roy, L. Maceda, and J.R. Waldman. 2005. Introgression of nuclear DNA (nDNA) alleles of stocked Atlantic coast striped bass with the last remaining native Gulf of Mexico population. *North American Journal of Fisheries Management* 25:464-474.
- Wirgin, I., C. Grunwald, E. Carlson, J. Stabile, D.L. Peterson, and J. Waldman. 2005. Range-wide population structure of shortnose sturgeon *Acipenser brevirostrum* based on sequence analysis of the mitochondrial DNA control region. *Estuaries* 28:406-421.
- Waldman, J.R. 2006. The diadromous fish fauna of the Hudson River: life histories, conservation concerns, and research avenues. Pages 171-188 in J.S. Levinton and J.R. Waldman, editors. *The Hudson River Estuary*, Cambridge University Press.
- Limburg, K., J. Waldman, A. Kahnle, and K. Hattala. 2006. Fisheries and fisheries management of the Hudson River estuary. Pages 189-204 in J.S. Levinton and J.R. Waldman, editors. *The Hudson River Estuary*, Cambridge University Press.
- Waldman, J.R., K.E. Limburg, and D.L. Strayer. 2006. The Hudson River environment and its dynamic fish community. *American Fisheries Society Symposium Series* 51:1-7.
- Waldman, J.R., T. Lake, and R.E. Schmidt. 2006. Biodiversity and zoogeography of Hudson Estuary Fishes. *American Fisheries Society Symposium Series* 51:129-150.
- Dunning, D.J., J.R. Waldman, Q.E. Ross, M.T. Mattson. 2006. Dispersal of Age-2+ striped bass out of the Hudson River. *American Fisheries Society Symposium Series* 51:287-294.
- Wirgin, I., and J. Waldman. 2006. Bioaccumulation and toxicities of aromatic hydrocarbon contaminants at different trophic levels of the Hudson River Ecosystem. Pages 1552-1568 in W.N. Rom, editor. *Environmental and Occupational Medicine*, 4th Edition, Lippincott-Raven Publishers.
- Waldman, J.R., C. Grunwald, and I. Wirgin. 2006. Evaluation of the native status of sea lamprey *Petromyzon marinus* in Lake Champlain based on mitochondrial DNA sequencing analysis. *Transactions of the American Fisheries Society* 135:1076-1085.
- Wirgin, I., A.I. Kovach, L. Maceda, N.K. Roy, J. Waldman, D.L. Berlinsky. 2007. Stock identification of Atlantic cod in U.S. waters using microsatellite and single nucleotide polymorphism DNA analyses. *Transactions of the American Fisheries Society* 136:375-391.
- Wirgin, I., C. Grunwald, J. Stabile, and J. Waldman. 2007. Genetic evidence for mid-Atlantic coast relict Atlantic sturgeon stocks. *North American Journal of Fisheries Management* 27:1214-1229.
- Grunwald, C., L. Maceda, J. Waldman, J. Stabile, and I. Wirgin. 2007. Conservation of Atlantic sturgeon *Acipenser oxyrinchus oxyrinchus*: delineation of stock structure and distinct population segments. *Conservation Genetics* 8:1566-1572.

- Waldman, J. 2008. The world's diadromous fishes: Resetting shifted baselines. Pages 151-163 in *State of the Wild: A Global Portrait of Wildlife, Wildlands, and Oceans 2008*, Wildlife Conservation Society, New York.
- Waldman, J.R., P. Doukakis, and I. Wirgin. 2008. Molecular analysis as a conservation tool for monitoring the trade of North American sturgeons and paddlefish. *Journal of Applied Ichthyology* 24(Suppl. 1):20-28.
- Waldman, J.R., C. Grunwald, and I. Wirgin. 2008. Sea lamprey *Petromyzon marinus*, an exception to the rule of homing in anadromous fishes. *Biology Letters* 4:659-662.
- Wirgin, I., C. Grunwald, J. Stabile, and J.R. Waldman. 2008. A genetic contribution to delineation of distinct population segments of shortnose sturgeon (*Acipenser brevirostrum*). *Conservation Genetics* 9:1111-1124.
- Limburg, K.E., and J.R. Waldman. 2009. Dramatic declines in North Atlantic diadromous fishes. *Bioscience* 59:955-965.
- Waldman, J., R. Daniels, M. Hickerson, and I. Wirgin. 2009. Response to Comment: Mitochondrial DNA analysis indicates sea lampreys are indigenous to Lake Ontario. *Transactions of the American Fisheries Society* 138:1190-1197.
- Williams, L., and J.R. Waldman. 2010. Wintering biology of striped bass at a power plant discharge. *Northeastern Naturalist* 17:373-386.
- Waldman, J.R. 2011. Conservation and restoration of *Acipenser oxyrinchus* in the U.S. Pages 517-526 in (P. Williot et al., editors). *Biology and Conservation of the Atlantic European Sturgeon A.sturio L, 1758*. Springer-Verlag, Berlin.
- Buonaiuto, F., L. Patrick, V. Gornitz, E. Hartig, R. Leichenko, P. Vancura, and J. Waldman. 2011. Coastal Zones. Responding to Climate Change in New York State: The ClimAID Integrated Assessment for Effective Climate Change Adaptation. *Annals of the New York Academy of Sciences* 1244:121-162.
- Waldman, J., L. Maceda, and I. Wirgin. 2012. Mixed-stock analysis of wintertime aggregations of striped bass along the mid-Atlantic coast. *Journal of Applied Ichthyology* 28:1-6.
- Wirgin, I., L. Maceda, J.R. Waldman, S. Wehrell, M. Dadswell, T. King. 2012. Stock origin of migratory Atlantic sturgeon in the Minas Basin, Inner Bay of Fundy, Canada, determined by microsatellite and mitochondrial DNA analyses. *Transactions of the American Fisheries Society* 141:1389-1498.
- Brantner, J.S., D.W. Ott, R.J. Duff, J.I. Orridge, J.R. Waldman, and S.C. Weeks. 2013. Evidence of selfing hermaphroditism in the clam shrimp *Cyzicus gynecia* (Branchiopoda, Spinicaudata). *Journal of Crustacean Biology* 34:184-190.
- Brown, J.J., K. E. Limburg, J.R. Waldman, K. Stephenson, E. Glenn, F. Juanes. 2013. Fish and hydropower on the US Atlantic coast: another example of failed fisheries policies through half-way technologies? *Conservation Letters* 6:280-286.
- Waldman, J.R., T. King, T. Savoy, L. Maceda, C. Grunwald, and I. Wirgin. 2013. Stock origins of subadult and adult Atlantic sturgeon, *Acipenser oxyrinchus*, in a non-natal estuary, Long Island Sound. *Estuaries and Coasts* 36:257-267.
- Boehm, J.T., L. Woodall, P. Teske, S. Lourie, C. Baldwin, J. Waldman, and M. Hickerson. 2013. Marine dispersal and barriers drive Atlantic seahorse diversification. *Journal of Biogeography*. wileyonlinelibrary.com/journal/jbi1doi:10.1111/jbi.12127.
- Boehm, J.T., J. Waldman, M. Hickerson, and J. Robinson. 2015. Population genomics reveals seahorses (*Hippocampus erectus*) of the western mid-Atlantic coast to be residents rather than vagrants. PLOS DOI: 10.1371/journal.pone.0116219.
- Jackman, G., K.E. Limburg, and J. Waldman. 2015. Life on the bottom: the chemical and morphological asymmetry of winter flounder (*Pseudopleuronectes americanus*) sagittae. *Environmental Biology of Fishes* 99:27-38.

- Wirgin, I., L. Maceda, J. Waldman, and D.T. Mayack. 2015. Genetic variation and population structure of American mink *Neovison vison* from PCB-contaminated and non-contaminated locales in Eastern North America. *Ecotoxicology* 24:1961-1975.
- Waldman, J., K.A. Wilson, M. Mather, and N.P. Snyder. 2016. A resilience approach can improve anadromous fish restoration. *Fisheries* 41:116-126.
- Branco, B., and J.R. Waldman. 2016. Resilience practice in urban watersheds. Pages 21-42 in E.W. Sanderson, W.D. Solecki, J.R. Waldman, and A.S. Parris. *Prospects for Resilience: Insights from New York City's Jamaica Bay*. Island Press, Washington D.C.
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- Young, J.R., J.R. Waldman, and R.F. Rockwell. Fluctuating asymmetry as a measure of stress in fishes: re-evaluation using an unbiased metric.
- Grubel, C.F., S.B. Elbin, and J.R. Waldman. Diet composition of Double-crested cormorants in New York Harbor.
- Medley, T.L., and J.R. Waldman. The distribution and condition of wild intertidal oysters, *Crassostrea virginica*, in the Hudson-Raritan Estuary.

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- Waldman, J. 2008. Research opportunities in the natural and social sciences at the Jamaica Bay Unit of the Gateway National Recreation Area. Jamaica Bay Institute, National Park Service, Brooklyn, NY. 77p.
- Orridge, J., J. Waldman, and R. Schmidt. 2009. Genetic, morphological and ecological relationships among Hudson Valley and a Massachusetts population of the clam shrimp, *Caenestheriella gynecia*. Chapter IV in S.H. Fernald, D.J. Yozzo, and H. Andreyko, editors. Final Reports of the Tibor T. Polgar Fellowship Program 2008. Hudson River Foundation, New York.
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- Gornitz, V., A. Blumberg, P. Orton, E. Douglas, J. Waldman, E.K. Hartig, and P. Rafferty. 2012. Coasts and Oceans. Section 4.4 in Horton, R., W. Solecki, and C. Rosenzweig, editors. Climate Change in the Northeast: A Sourcebook. Final Technical Input Report for the U.S. National Climate Assessment. 313p.
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- DeGraeve, M., J. Waldman, T. Linton, and R. Miller. 2017. Impact Evaluation of Projected DO Deficits in NY-NJ Harbor Estuary. Final Report to the New York-New Jersey Harbor Estuary Program.

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- Waldman, J.R., and C. Drew. 1989. Spotfin butterflyfish in the Hudson River. Underwater Naturalist 18(2):35.
- Waldman, J. 1996. ags fishery biologists never see again (but should). Underwater Naturalist 23(2):21-24.
- Waldman, J. 1997. Who's who: stock identification of Hudson River shad and other east coast populations. Shad Journal 2(3):12-13.
- Waldman, J. 2009. With temperatures rising, here comes "Global Weirding." Yale Environment 360. March 19th.
- Waldman, J. 2010. The natural world vanishes: how species cease to matter. Yale Environment 360. April 8th.
- Waldman, J. 2011. How fisheries can gain from the world of sustainable food. ale Environment 360. February 22nd.
- Waldman, J. 2013. Blocked migration: fish ladders on U.S. dams are not effective. Yale Environment 360. April 4th.
- Waldman, J. 2014. How Norway and Russia made a cod fishery live and thrive. Yale Environment 360. September 18th.
- Waldman, J., and K. Limburg. 2015. Undamming rivers: a chance for a clean new energy source. Yale Environment 360. August 6th.

Editorial

Editorial Board, North American Journal of Fisheries Management, 1994-1995

Guest editor, The Sturgeon Quarterly, 1995-1997

Editorial Board, The Shad Journal of the Shad Foundation, 1997-2000

Science Advisor, The Estuarian, 1998

Guest Editor, 2000-2001; Editorial Board, 2002-present, Northeastern Naturalist

Editorial Board, Transactions of the American Fisheries Society, 2003-2004

Additional Writings

Popular Books and Book chapters:

Waldman, J. (ed.). 1998. *Stripers: An Angler's Anthology*. Ragged Mountain Press, Camden, ME. 162p.

Waldman, J., and C. Di Paolo. (eds.). 1998. *Hempstead Harbor: History, Ecology, and Environmental Challenges*. Coalition to Save Hempstead Harbor, Sea Cliff, NY.

Waldman, J. 1999. *Heartbeats in the Muck: The History, Sea Life, and Environment of New York Harbor*. Lyons Press, New York. 178p.

Waldman, J. 2000. *Perfume Creek*. Time-Out Book of New York Walks. Time-Out Group Ltd., London. Pages 32-39.

Waldman, J. 2002. *Dance of the Flying Gurnards: America's Coastal Curiosities and Beachside Wonders*. Lyons Press, New York. 209p.

Waldman, J. 2005. *100 Weird Ways to Catch Fish*. Stackpole Books, Mechanicsburg, PA. 191p.

Waldman, J. 2013. *Heartbeats in the Muck: The History, Sea Life, and Environment of New York Harbor*. (revised edition). Fordham University Press, New York. 192p.

Waldman, J. (editor). 2013. *Still the Same Hawk: Reflections on Nature in New York*. Fordham University Press, New York. 151p.

Waldman, J. 2013. *Running Silver: Restoring Atlantic Rivers and their Great Fish Migrations*. Globe-Pequot, Guilford, CT. 284p.

Science, Outdoors, and Opinion Articles in: The New York Times (28 articles), Newsday (2), Daily News (1), The Long Island Fisherman (7), Nor'East Saltwater (2), and Seven Days (1).

Published Interviews

Fountain Ink: The Social and the Ecological. Q&A. January 2, 2015

Interview: Q & A with John Waldman. 2016. Fisheries 41

Conferences Convened

International Conference on Sturgeon Biodiversity and Conservation. American Museum of Natural History, 1997 (co-convenor)

Shads 2001. National Aquarium, Baltimore, 2001. (co-convenor)

Why Nature Matters to New Yorkers. Queens College, 2005 (convenor)

Quintessential Queens: Celebrating America's Fourth Largest City. Queens College, 2013 (convenor)

Reviewer

Journals: Aquatic Living Resources, Aquatic Sciences, Archiv Für Hydrobiologie, Archives of Natural History, Belgian Journal of Zoology, Biological Conservation, BioMed Central – Evolutionary Biology, Conservation Biology, Conservation Genetics, Copeia, Current Opinion in Environmental Sustainability, Diversity and Distributions, Ecological Applications, Ecology & Society, Environmental Biotechnology, Fisheries Research, Fishery Bulletin, Great Lakes Research, Hudson River Environmental Society Special Publications, Hydrobiologia, Journal of Applied Ichthyology, Journal of Aquatic System Stress and Recovery, Journal of Biomedicine and Biotechnology, Journal of Extreme Events, Journal of Northwest Atlantic Fishery Science, Journal of Zoology, Marine Biology, Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science, Journal of Fish Biology, Marine Ecology – Progress Series, Molecular Biology, NOAA Technical Memorandum NMFS Series, North American Journal of Fisheries Management, Northeastern Naturalist, *Proceedings-Boletín. Instituto Español de Oceanografía*, Reviews in Fish Biology and Fisheries, Science Advances, Transactions of the American Fisheries Society

Funding Organizations: City University of New York (CUNY) Professional Staff Congress Awards, CUNY PEER Grants, EPA New York-New Jersey Harbor Estuary Program, Delaware Estuary Program, Large Pelagics Research Program – University of New Hampshire, New York Sea Grant/Hudson River National Estuarine Research Reserve Cooperative Fellowships, Mexico - U.S. Foundation for Science, Mississippi-Alabama Sea Grant Consortium, National Biological Survey, National Fish & Wildlife Foundation, New York, New Jersey, Connecticut, Maryland, and Hawaii Sea Grant programs, NMFS Salstonall-Kennedy Fishery Development Program, NMFS Special RFP Bluefish Stock Dynamics, NSF CAMEO, NOAA Marine and Estuarine Management Division, North Carolina Sea Grant Fishery Resource Grant Program, USGS Species at Risk Program, UMASS/NOAA CMER Program, USGS Biological Resources Division State Partnership Program, Virginia Cooperative Marine Education & Research Program, Great Lakes Fishery Commission, California Bay-Delta Ecosystem Restoration Program, Wildlife Conservation Society - Research Fellowship Program, Great Lakes Fishery Trust

Board Appointments

New York Nature Network – 2005-2006

The River Project – 2005-2011

Interdisciplinary Laboratory for Art, Nature, and Dance – 2006-2011

Scientific Committees

Hudson River National Estuarine Reserve Research Advisory Committee, 1988-1992

EPA New York-New Jersey Harbor Estuary Program Scientific and Technical Committee, 1988-1996

EPA New York Bight Restoration Program Habitat Committee, 1989-1996

Atlantic States Marine Fisheries Commission, Atlantic Sturgeon Aquaculture and Stocking Committee, 1993-2005

Army Corps of Engineers Hudson River Estuary Habitat Restoration Project Technical Advisory Committee, 1994-1996

IUCN Species Survival Commission, Sturgeon Specialist Group 1994-present

Technical Advisor, Shortnose Sturgeon Recovery Team, 1994-1998

Coalition to Save Hempstead Harbor, Technical Advisory Board, 1995-present

Atlantic States Marine Fisheries Commission, Citizens Advisory Committee, Atlantic Sturgeon Management Board, 1996-1998
National Marine Fisheries Service, Special RFP Bluefish Stock Dynamics Review Panel 1998-2004
Maryland Sea Grant Proposal Review Panel 1999 & 2001
Connecticut Sea Grant Proposal Review Panel 1999 & 2001 & 2003
International Council for the Exploration of the Sea, Co-chair, Stock Identification Methods Working Group, 1999-2007
Chesapeake Bay Monitoring Program Review Panel, 2000
Hudson River Tributaries Fish Passage Task Force, 2002-2004
New York City Economic Development Commission – Technical Advisory Committee 2004
Hudson River Estuary Teacher Education Program, Wallerstein Collaborative for Urban Environmental Education, NYU – Advisory Committee 2004-2005
Society for Biological Conservation, Steering Committee, 2009 Annual Meeting
Alosine Species Team, Ecosystem-Based Fishery Management in Chesapeake Bay, 2009
Hudson River Estuary Management Advisory Committee,
Chair Fisheries Subcommittee, 2009-2012

Society Memberships

American Fisheries Society (Life Member)
Society for Conservation Biology
American Littoral Society
Trout Unlimited (Life Member)

Courses Taught

Graduate Seminars in Marine Conservation Biology, Historical Ecology, and Urban Conservation Biology; General Ecology; Writing in the Natural Sciences; The Nature of New York; The Hudson River from Source to Sink

Graduate Students Advised and Completed

Helena Andreyko. 1998. Genetic vs. Environmental Effects on Meristic and Morphometric Variation in Hatchery Raised Striped Bass. The City College of The City University of New York. M.S.
Christopher N. McCormick. 1999. Fluctuating Asymmetry as an Indicator of Sublethal Stress in the Atlantic Tomcod (*Microgadus tomcod*). Long Island University. M.S.
Kimberly Williams. 2002. Aspects of the Biology of Striped Bass Overwintering in the Discharge of the LILCO Power Station, Northport, New York. State University of New York at Stony Brook. M.S.
Michael Bednarski. 2007. Winter Movements of Striped Bass in the Thames River, Connecticut. Queens College. M.S.
Tiffany Medley Johnson, 2010. Wild Oysters *Crassostrea virginica*, in the Hudson River Estuary: Growth, Health, and Population Structure. City University of New York. Ph.D.
Jonelle Orridge. 2011. Genetic, Morphological and Ecological Relationships Among Populations of the Clam Shrimp, *Caenestheriella gynecia*. City University of New York. Ph.D.
Susan Stanley. 2012. Vernal Pools in an Urban Landscape in New York City. Queens College. M.S.
George Jackman. 2015. The Ecology of Winter Flounder from an Otolith Perspective. City University of New York. Ph.D.

Presentations

More than 200 seminars, invited lectures, and workshop and conference presentations.

Popular and Opinion Articles

1983

Bucktail the Big Apple. *The Fisherman* 18(13):16-19.

A Little Montauk Diversion. *The Fisherman* 18(19):20-21.

Bass Fishing in Hell Gate. *The New York Times*, Outdoors Column. December 5th.

1984

Winter White Perch in Long Island streams. *The New York Times*, Outdoors Column. March 5th.

Double Fun between the Forks. *The Fisherman* 19(20):28-29.

A Cool Descent into the Intriguing Croton. *The New York Times*, Outdoors Column. June 25th.

1985

Luring Salmon to the Island's Waters. *The New York Times*, Long Island Section. November 24th.

1986

Hudson River Striped Bass Tagging Program Results. *The Fisherman* 21(4):20-21.

(with D. Dunning).

Starting the Striper Season. *The New York Times*, Outdoors Column. April 14th.

1988

Hudson River Striped Bass Tagging Program. *The Fisherman* 23(8):34-36. (with D. Dunning and Q. Ross).

Fishing for Bass in Unusual Habitat. *The New York Times*, Outdoors column. April 17th.

Summer School Stripers. *The Fisherman* 23(25):40-41.

Undersea Census. *Seven Days* 1(15):6.

Finding Unusual Fish in Exotic Settings. *The New York Times*, Outdoors column. September 11th.

1989

Earning Stripes with Bass. *The New York Times*, Outdoors Column. May 28th.

Near a Hudson Dam, Fish Cooperate. *The New York Times*, Outdoors Column. July 9th.

Catches of the Day: Some Curiosities. *The New York Times*, Outdoors Column. September 17th.

Update on Hudson River Striped Bass Tagging Program. *The Fisherman* 24(47):18-21.

1991

A Colorful Addition to Florida Canals. *The New York Times*, Outdoors Column. March 11th.

1993

Trolling Turkey Bones for Summer Stripers in the Sound. *The New York Times*, Outdoors Column. August 29th.

1994

Seeking Autumn Stripers under Winter Conditions. *The New York Times*, Outdoors Column. January 2nd.

Search is on for Urban Tarpon. *The New York Times*, Outdoors Column. May 7th.

Striped Bass Crescendo in Long Island Sound. *The New York Times*, Outdoors Column.

December 28th.

1995

History of Atlantic Salmon Runs Deep in New England. *The New York Times*, Outdoors Column. February 22nd.

1996

Snorklers are Naturally Drawn to Artificial Reefs. *The New York Times*, Outdoors Column. April 5th.

A True Fish Story. *The New York Times*, Op-Ed page, June 1st.

Salmon and Sea Trout in Reykjavik's Suburbs. *The New York Times*, Outdoors Column. October 23rd.

Still Needed: A Cross-Island Bridge. *The New York Times*, Long Island Opinion Column. December 29th.

1997

Angling in Nova Scotia. *Nor'east Saltwater*, March 1997.

In Ukraine, Exploring the Riches of the Dnieper. *The New York Times*, Outdoors Column. October 5th.

"Lures and Lore" and "Stacking the Deck in Winter." Sidebars to "They're Hooked, a feature article on surfcasting during autumn at Montauk. *Newsday*. November 2nd.

1998

Panfish, Ice, and a Jig Rod: Winter's Consolation Prize. *Nor'east Saltwater*, January 1998.

1999

There's a Striped Bass Invasion off Manhattan. *The New York Times*, Outdoors Column. May 23rd.

A Penobscot Quadruplet . . . Almost. *Fly Fish America*, June:20-25, 33.

Public Parks, Recreational Access, and the Post-industrial Harbor of New York. *Gotham Gazette* (Gothamgazette.com). Week of November 22nd.

2000

The Harbor Nobody Knows. *The New York Times*, City Section. February 20th.

In Defense of Fishing Winter's Frozen Ponds. *The New York Times*, Outdoors Column. February 26th.

2001

Blood, Gore, and Good Fishing. *The New York Times*, Outdoors Column. June 10th.

The Lofty Mystery of Why Sturgeon Leap. *The New York Times*, Outdoors Column. October 21st.

2003

Butterflyfish and other Tropical Fish Visitors. *The Tidal Exchange*. Summer: 8.

Blitzes are the Great Hatches of the Sea. *The New York Times*, Outdoors Column. November 23rd.

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