

Maria A. Aliberti Lubertazzi

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EDUCATION

| <u>Degree or Program</u> | <u>Year</u> | <u>Institution</u> |
|------------------------------------|-------------|--|
| Ph.D.—Environmental Science | 2009 | Univ. Rhode Island, Kingston Dept. Plant Sciences & Entomology |

Dissertation: *Natal habitat use by dragonflies along landscape gradients in RI*

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| M.Sc.—Environmental Studies | 2000 | Antioch University New England, Keene, NH |
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- Degree Focus: Environmental Biology
- Minor Focus: Environmental Education
- Master's Thesis: *Odonate nymphs as potential indicators of water quality in ponds of northeastern Massachusetts*

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| Rotary Ambassadorial Scholarship | 1997 | Universidad de Buenos Aires, Argentina |
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- Studied for two semesters in the Exact/Natural Sciences and Agronomy schools, as a *Preserve Planet Earth Scholar*
- Coursework included intensive entomology and botanical systematics courses; also ethnobiology, environmental ecology, field ornithology

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| B.A.—<i>cum laude</i> | 1992 | Middlebury College, Middlebury, VT |
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- Majors: Biology and Spanish (Double Major), Biology focus on ecology and organismal biology
- Semester Abroad: Universidad de Costa Rica, Spring 1991. Coursework included ecology/natural history, art, literature, in Spanish

WORK EXPERIENCE

| <u>Description</u> | <u>Year</u> | <u>Institution</u> |
|------------------------|---------------|--|
| Adjunct Faculty | 2011- present | Department of Liberal Arts, Rhode Island School of Design, Providence, RI |

- Taught *Ecology of Here and Now* (spring '11); created and taught *Introduction to Insect Morphology and Ecology* (fall 2011-present) and *Urban Ecology* (spring 2014-present)
- Taught Independent Study of insects and the structures they build (fall '12)

Consultant Summer 2016-20 Mount Auburn Cemetery, Cambridge, MA
 •Conducted a long-term project assessing emerging dragonfly populations at 4 ponds on property; oversaw pilot citizen-science data collection (2018-20), summer intern (2017); outreach with children at Lesley University's WonderLab summer camp (2017-18)

Consultant Summer 2013 RISD Nature Lab, Providence, RI
 •Oversaw renovation of the study insect collection by mentoring two student interns

Interim Natural Science Teacher Fall 2009 Advent School, Boston, MA

Environmental Consulting Dec. 2008-Jan. 2009 Horsley Witten Group, Sandwich, MA

Teaching Assistant Sept. 2003-Dec. 2007 Dept. Plant Sciences & Entomology, Univ. Rhode Island, Kingston, RI
 •*Introductory Entomology; Humans, Insects, & Disease; Invertebrate Symbiosis; Emerging Infectious Disease (Honors); Herbaceous Plant Taxonomy, Plant Propagation; Botany for Gardeners; Floriculture and Greenhouse Management*

Field Assistant, Ant - Seed Ecology Research November 2007 Department of Environmental Biology, Curtin University of Technology, Perth, Western Australia

Field & Laboratory Technician Summer 2007 Biological Control Laboratory, Univ. of Rhode Island, Kingston, RI

Laboratory Technician, Mosquito Identification 2006 Dept. Plant Sciences & Entomology, Univ. Rhode Island, Kingston, RI and USGS

Adjunct Faculty Summer 2004, 2005; Fall 2006 Environmental Studies Dept., Antioch New England University, Keene, NH
 •Designed and taught *Aquatic Invertebrate Ecology* in graduate Env. Studies program

Teaching Assistant Sept. 2002 - May 2003 Dept. Biological Sciences, Univ. Rhode Island, Kingston, RI
 •*Biology I, Biology II, Human Physiology*

Digital Database Technician Feb.-Dec. 2002 Dept. Entomology, Harvard Museum of Comparative Zoology. Cambridge, MA
 •Used light-microscopy photographs and image and database software to archive insect type-specimens.

- Invertebrate Taxonomist** Feb.—Sept. 2002 Massachusetts Dept. of Environmental Protection, Div. of Watershed Mgmt.—New England Interstate Water Pollution Control Commission
- Sampled and identified stream invertebrates for regional biocriteria study; slide preparation, data processing.
- Research Assistant** Jan. 1999—Feb. 2002 New England Aquarium, Aquatic Biodiversity Research. Boston, MA
- Collected, sorted and identified pond and wetland macroinvertebrates from study sites in northeastern MA, Block Island, RI and Nantucket; trained summer interns in lab tasks (processing samples and ID of taxa); assisted in experimental design, coordination of interns, water quality testing, and other field and lab tasks.
- Research Assistant** Mar. 2000—July 2001 Aquatic Ecology Lab, Center for Biological Conservation, Massachusetts Audubon Society. Lincoln, MA
- Collected and identified macroinvertebrates from Massachusetts vernal pools, assisted in data entry and management, report-generating and outreach tasks.
- Intern** March—Aug. 1999 Essex County Greenbelt Association. Essex, MA
- Vernal pool internship on Greenbelt properties in North Andover, MA included surveys of amphibians, invertebrates and wildflowers.
- Research Intern** May—Dec. 1998 The Lloyd Center for Environmental Studies. South Dartmouth, MA
- Conducted larval and adult Lepidoptera and vegetation surveys on Cape Cod and elsewhere in southeastern MA and survey of adult odonate fauna of Ponkapoag Bog/Pond; assisted with data organization and analysis, bimonthly bird census, outreach and interpretation activities.
- Teacher Assistant—Naturalist** Oct. 1996—Jan. 1997 Massachusetts Audubon Society. Lincoln, MA
- Organized environmental education program for Boston elementary schools, with college student volunteers
- Bilingual Research Assistant** July 1993—June 1995 Brigham and Womens Hospital. Boston, MA
- The Maternal and Infant Smoking Study of East Boston. Performed interviews and pulmonary function testing on mothers and their 4-6 year old children in English and Spanish, for community-based public health study.

PEER-REVIEWED PUBLICATIONS

M. L. May, J. A. Gregoire, S. Gregoire, M. Aliberti Lubertazzi, J. H. Matthews. 2017. Emergence phenology, uncertainty, and the evolution of migratory behavior in *Anax junius* (Odonata:Aeshnidae). *PLOS ONE* 12(9): e0183508.

<https://doi.org/10.1371/journal.pone.0183508>

M. Aliberti Lubertazzi and H. Ginsberg. 2010. Emerging dragonfly diversity at small Rhode Island (U.S.A.) wetlands along an urbanization gradient. *Urban Ecosystems*. 13(4): 517-533.

D. Lubertazzi, M. A. Aliberti Lubertazzi, N. McCoy, A. D. Gove, J. D. Majer, R. R. Dunn. 2010. The Ecology of a Keystone Seed Disperser, *Rhytidoponera violacea*, with Implications for the Evolution of Myrmecochory. *Journal of Insect Science*. Vol. 10, Article 158.

M. Aliberti Lubertazzi and H. Ginsberg. 2009. Persistence of Dragonfly Exuviae on Vegetation and Rock Substrates. *Northeastern Naturalist*. 16(1): 141-147.

OTHER PUBLICATIONS

M. Aliberti, S. Bradt, S. Greene, J. Haney, J. Morrissey, J. Nowak. 2003. *Photographic Key to the Freshwater Zooplankton of the Northeast (Version 1.0)*. University of New Hampshire, Center for Freshwater Biology. PDF and CD-Rom Formats.

M. Chandler and M. Aliberti. 2002. *Cross-seasonal survey of aquatic insects from six fishless wetlands on Block Island*. Final Report to The Nature Conservancy.

M. Aliberti and M. Chandler. 2001. *Survey of aquatic invertebrates from Nantucket Island wetlands*. Final Report to Massachusetts Natural Heritage and Endangered Species Program Small Research Contracts Program (2001).

M. Aliberti and M. Mello. 1999. *Status of State-listed and Tracked Invertebrates at Ponkapoag Bog, Norfolk County, Mass.* 1998. Lloyd Center for Environmental Studies (Dartmouth, MA). Report #98-4.

M. Mello, M. Aliberti, S. Galusha, K. Gerber, F. Hohn, A. Lawrence, D. Luers, R. Nagel, T. Ruehli, B. Stephenson. 1999. *Inventory of State-listed Lepidoptera and Other Insects at Mass. Military Reservation 1996-1998*. Final Report to The Massachusetts Army National Guard Camp Edwards Training Site. Lloyd Center for Environmental Studies (Dartmouth, MA). Report # 99-2.

M. Mello, M. Aliberti, S. Galusha, K. Gerber, B. Stephenson. 1999. *Survey of Francis Crane, Hyannis Ponds, and Noquochoke Wildlife Management Areas for State-listed Lepidoptera*. Final Report to The MA Natural Heritage and Endangered Species Program Ecological Restoration Program, from the Lloyd Center for Environmental Studies (Dartmouth, MA). Report #99-1.

INTERNET PUBLICATIONS

Identification of Aeshnid Exuviae

(http://www.pse.uri.edu/museum/Aeshnid_ID/index.shtml)

Photography, text and direction: M. Aliberti, Production: P. Logan (no longer available)

Rotary Scholars Write: "How can 'service above self' change the world?"

(<http://rotaryscholars.com/featured-essay-maria-aliberti/>) (no longer available)

PRESENTATIONS

Trash species or exploitative marvel? Emergence patterns of Pachydiplax longipennis on a urban-rural landscape gradient in southern New England

M. Aliberti Lubertazzi. Society for Freshwater Science annual meeting, Salt Lake City, UT, May 2019.

A Tale of Two Urban Ponds—Seen Through the Lens of Emerging Dragonfly Populations

M. Aliberti Lubertazzi. New England Natural History Conference. Springfield, MA, April 2019.

Leaf-packs and artists: nurturing analysis and outreach

M. Aliberti Lubertazzi. Special Session: Scholarship of Teaching and Learning in Freshwater Science. Society for Freshwater Science annual meeting, Detroit, MI, May 2018.

An approach to teaching urban ecology to students of the arts using leaf packs.

M. Aliberti Lubertazzi. Special Session: Scholarship of Teaching and Learning in Freshwater Science. Society for Freshwater Science annual meeting, Raleigh, NC, May 2017.

Emerging dragonfly distributions at lentic wetlands along environmental gradients in Rhode Island.

M. Aliberti Lubertazzi. New England Natural History Conference. Springfield, MA, April 2014. (invited speaker)

The use of exuvial collection for analyzing seasonal emergence trends of Anax junius.

M. Aliberti Lubertazzi. North American Benthological Society annual meeting, Providence, RI, May 2011.

Do dragonflies choose their neighborhoods?

Invited opening speaker, Museum Institute for Teaching Science, 2009 Southeast Region Summer Institute. New Bedford, MA, July 2009.

Patterns of emerging dragonfly communities at small wetlands on the urbanizing New England landscape.

M. Aliberti Lubertazzi and H. Ginsberg. International Symposium—Urban Wildlife and the Environment, Amherst, MA, June 2009.

Measuring diversity patterns with urbanization.

M. Aliberti Lubertazzi and H. Ginsberg. North American Benthological Society annual meeting, Grand Rapids, MI, May 2009.

Does anyone prefer urban wetlands? A landscape pattern for odonate conservation in New England.

M. Aliberti and H. Ginsberg. North American Benthological Society annual meeting, Salt Lake City, UT, May 2008.

Urban vs. rural colonists? Teasing out the patterns of wetland use by dragonflies on our urbanizing New England landscape.

M. Aliberti and H. Ginsberg. North American Benthological Society annual meeting, Columbia, SC, June 2007.

Persistence of dragonfly exuviae on vegetation and rock substrates.

M.A. Aliberti and H.S. Ginsberg. [poster]

New England Association of Env. Biologists (NEAEB). March 2007.

Entomological Society of America, Eastern Branch. March 2007.

Natal Habitat Use by Dragonflies Along an Urbanization Gradient in Rhode Island.

M.A. Aliberti and H.S. Ginsberg.

Invited presentations at:

Cambridge Entomological Club. December 2006. [oral presentation]

EPA Vulnerable Wetlands Forum, November 2006. [poster]

Analysis of Natal Habitat Use by Dragonflies in Rhode Island.

M. A. Aliberti. Northeast Regional Meeting of the Dragonfly Society of the Americas, June 2006.

The assemblage of dragonfly species emerging from small wetlands along an urbanization gradient.

M. Aliberti and H. Ginsberg. North American Benthological Society annual meeting, Anchorage, AK, June 2006.

The assemblage of dragonfly species emerging from small wetlands along an urbanization gradient: A preliminary analysis.

M. A. Aliberti. RI Natural History Survey, March 2006.

Assemblages of Dragonfly Species that Emerged from Small Wetlands Along an Urbanization Gradient Within the State of Rhode Island, from May – October 2004.

M. A. Aliberti. North American Benthological Society annual meeting, New Orleans, LA, June 2005.

Predation by Dragonfly Nymphs on Mosquito Larvae.

R. Abney, M. Aliberti, R. Lebrun and P. Logan. New England Association of Environmental Biologists (NEAEB), March 2005. [poster]

Preliminary analysis of 2004 data: the assemblage of dragonfly species emerging from small wetlands along an urbanization gradient within the state of Rhode Island.

M. A. Aliberti. New England Association of Environmental Biologists (NEAEB), March 2005.

Location of Anthropogenic, Urban Wetlands That Support Dragonfly Development and Adult Emergence.

M. Aliberti. RI Natural History Survey, March 2004.

Queens and Beaver River Macroinvertebrate Survey.

M. Aliberti. RI Natural History Survey, March 2004.

Larval odonates as potential bioindicators of pond water quality. Presented at:

North American Benthological Society annual meeting, June 2001 [poster]

The Massachusetts Bays Program's Using Biology to Signal Ecological Health Conference, Nov. 2000 [poster]

New York State Natural History Conference VI, April 2000

New England Association of Environmental Biologists (NEAEB), March 2000

MEMBERSHIPS

Member, Ecological Society of America, 2005—2013.

Member, Cambridge Entomological Club, 2001—present.

Vice-president, 2007—2009. Co-president, 2009—2010.

Member, Society for Freshwater Science (formerly North American Benthological Society), 2001—present. Graduate Resource Committee: 2005 & 2006 Live Auction Committee co-chair. Annual meeting local planning committee, 2011.

ADDITIONAL EXPERIENCE

Manuscript Review. *Northeastern Naturalist* (guest editor), *Journal of Insect Conservation*, *Journal of Applied Ecology*, *Yale University Press*, *Urban Ecosystems*

NABS Taxonomy Fair – Odonate Identification. Invited taxonomic specialist (Odonata = dragon- and damselflies), NABS Annual meeting, Salt Lake City, UT, May 2008.

Aquatic Invertebrate Identification. Massachusetts Natural Heritage and Endangered Species Program (2002). Rhode Island Natural History Survey (2003).

Promoter of dragonfly nymph research. Active instigator of, and participant in, the Millers River Environmental Center's "Nymphfest"—a hands-on workshop for people interested in learning to identify dragonfly nymphs. February 2000, 2004, 2008 (Athol, MA).

Graduate coursework in Zooplankton Ecology, Spring 2002. Center for Freshwater Biology, University of New Hampshire, Durham, NH.

Participant in Spatial Ecology Seminar, Spring 2005. Dept. of Ecology and Evolutionary Biology, University of Connecticut, Storrs, CT.

Annual participant, Concord, MA-based Xerces Butterfly Count, 2000—present.

Invited participant, 2009 Walden Woods BioBlitz; Rhode Island Natural History Survey BioBlitz, 2008, 2009, 2013; 2004 Nantucket BioBlitz.

URI Coastal Fellowship Program. Field and lab Mentor of program interns, May – December 2004—2006.

Member, URI Plant Science Club, 2003—2008. Native & horticultural plant cultivation; sale promotion, marketing. Club Treasurer, 2005—2007.

Rotary Ambassadorial Scholar Program. Alumni representative; Northeast Link Organization Committee member, 2006 - 2011.

ADDITIONAL SKILLS

Proficient in Microsoft Word, Excel & PowerPoint, JMP, Adobe Photoshop, AutoMontage, ArcInfo/ArcView/ArcMap Geographical Information Systems, GPS.

Fluent in Spanish, conversant in Italian & French. Freelance translation of scientific papers/texts into English or Spanish. Volunteer interpreter/translator at Massachusetts General Hospital (various periods) and elsewhere.

Fiber arts: Knitting, crochet, sewing.

Certified Emergency Medical Technician (Massachusetts—1995-96): Trained in administration of CPR, MAST and Basic Life Support.