



R N T C O N S U L T I N G I N C

## CURRICULUM VITAE

### Ana Carolina Taraborelli, M.Sc.

*Ms. Taraborelli has many years of practical experience in a number of areas of biology and science. Her broad background allows for the application of skills to many projects.*

## ACADEMIC BACKGROUND

- Master of Science, Watershed Ecosystem Program (Trent University) – 2008
- Bachelor of Science, Zoology (Universidad Nacional de La Plata) - 2000

## PROFESSIONAL EXPERIENCE

### RNT Consulting Inc.

2007 to present

#### Research Scientist and Lab Manager

- Assisted and provided technical advice in tests of mitigation strategies for dreissenid mussel control
- Designed, implemented, analyzed, and reported laboratory experiments
- Monitored and identified dreissenid mussel larvae and adults
- Trained personnel on sample collection, identification, and quantification of mussels
- Processed benthic and plankton samples and identified taxa from different lakes and rivers in Ontario
- Purchased, operated, and maintained field and laboratory equipment

### Ontario Ministry of Natural Resources

2008-2012

#### Great Lakes Research Technician

- Participated in sample collection and processing of fish, benthic invertebrates, zooplankton, macrophytes, and water in the Bay of Quinte and Lake Ontario
- Earned experience on safe boating practices including operating a 22-foot vessel
- Planned, organized, and executed laboratory analyses on fish diet digestion rates and diet discrimination factors
- Assisted and advised graduate students on fish collection and maintenance for laboratory experiments
- Demonstrated ability on analyzing and preparing scientific data for publication as primary scientific literature

#### Great Lakes Research Biologist

- Prepared fish tissue for calorimetry and stable isotope analysis
- Trained technicians on invertebrate taxa identification and calorimetry
- Prepared laboratory protocols and identification keys
- Purchased and maintained laboratory and field equipment and supplies
- Maintained databases and performed data analyses using available software (Excel, Access, Systat)

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### Trent University

2004-2006

#### Graduate Research Assistant

- Completed quantitative and qualitative fish diet analyses on several species
- Conducted fish age and growth studies on round goby
- Wrote research protocols and reports on the ecology of the invasive round goby
- Parameterized fish component in food webs using bioenergetics modeling

#### Teaching Assistant

- Prepared and presented seminars
- Guided and evaluated students

### Universidad de La Plata

1998-2001

#### Undergraduate Research Assistant

- Participated in reproductive studies of the invasive Golden Mussel in Argentina
- Scheduled, organized, and performed monthly sample collections for mussels, and recorded water quality data
- Prepared and analyzed mussel gonads using histology slides

#### Teaching Assistant

- Directed students in vertebrate taxa identification in laboratory and field environments

### Naturalia Ornamental Fish Farm

1993-1996

#### Aquaculture Technician

- Maintained and reproduced ornamental fish species
- Handled invertebrate livestock
- Classified and conditioned live fish for sale
- Identified benthic and plankton samples
- Conducted water quality analyses in lotic environments

## PUBLICATIONS AND PRESENTATIONS

Taraborelli, A. C., Jakobi, N., Johnson, T. B., Bowen, K. and B. Boscarino. 2012. Distribution, abundance and production of *Hemimysis anomala* in Lake Ontario. *Journal of Great Lakes Research* (in press) – doi: 10.1016/j.jglr.2011.08.010.

Taraborelli, A. C., Fox, M. G., Johnson, T. B. and T. Schaner. 2010. Round goby (*Neogobius melanostomus*) population structure, biomass, prey consumption and mortality from predation in the Bay of Quinte, Lake Ontario. *Journal of Great Lakes Research* 36:625-632.

Taraborelli, A. C., Fox, M. G., Schaner, T. and T. B. Johnson. 2009. Density and habitat use by the round goby (*Apollonia melanostoma*) in the Bay of Quinte, Lake Ontario. *Journal of Great Lakes Research* 35: 266-271.

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### Ana Carolina Taraborelli, M.Sc.

- Taraborelli, A. C., Fox, M. and T. Schaner. 2007. The role of the round goby (*Neogobius melanostomus*) in the Bay of Quinte, Lake Ontario Ecosystem. 60<sup>th</sup> Canadian Conference for Fisheries Research, January 4-6, 2007, Montreal, Quebec.
- Dietrich, J. P., Taraborelli, A. C., Morrison, B. J. and T. Schaner. 2006. Allometric relationships between size of calcified structures and round goby total length. North American Journal of Fisheries Management 26: 926 – 931.
- Taraborelli, A. C. Fox, M. and T. Schaner. 2006. Density and habitat assessment of the round goby (*Neogobius melanostomus*) in the Bay of Quinte, Lake Ontario, using an underwater video recording apparatus. 49<sup>th</sup> Annual Conference on Great Lakes Research, May 22-26, 2006, Windsor, Ontario.
- Darrigran, G., Damborenea, C., Penchaszadeh, P. and C. Taraborelli. 2003. Adjustment of *Limnoperna fortunei* (bivalvia: mytilidae) after ten years of invasion in the Americas. Journal of Shellfish Research 22: 41-45.
- Taraborelli, A. C. and T. Schaner. 2002. Diet of the round goby in the Bay of Quinte, Lake Ontario. In Lake Ontario Fish Communities and Fisheries: 2001 Annual Report of the Lake Ontario Management Unit, Part III – Special Studies, Chapter 16. Ontario Ministry of Natural Resources, Picton, Ontario, Canada.