

**Maritza Macdonald**  
**1013 Hillcrest Road**  
**Ridgewood, NJ 07450**

(H) 201-317-9545 (W) 212-769-5182 maritza@amnh.org

## **EDUCATION**

1995 Teachers College, Columbia University, New York, NY  
Doctor in Education with Specialization in Teacher Education and Curriculum  
Development, Department of Curriculum and Teaching.

1978 Bank Street College of Education, New York, NY  
Master of Science in Education

1974 Fordham University, New York, NY, Bachelors of Science

1969 Institute of Modern Languages, Washington, DC  
Simultaneous Translator and Interpreter (English - Spanish)

## **PROFESSIONAL FOCUS:**

Direct, develop, research, create partnerships, and evaluate educational programs in formal and informal education settings focused on equity, achievement, and cross-cultural knowledge and understanding.

## **PROFESSIONAL EXPERIENCES**

- **RESEARCH AND EVALUATION, PROGRAM ADMINISTRATION, GRADUATE SCHOOL TEACHING**

**1997 - Present** American Museum of Natural History, New York, NY

**Senior Director of Education and Policy:** Develop, implement, research and evaluate partnerships with higher education and with other ISE organizations. Direct evaluation activities related to exhibitions and education. Represent the museum in policy related STEM activities such as the National Commission for 21 Century STEM Education and The New York State Regents Work Group to consider cultural institutions in policies related to teacher education. Member of two inquiry groups producing research reports for the Center for the Advancement of Informal Science Education (CAISE). Past evaluator of two Research Experiences for Teachers programs sponsored by NSF: Teachers Experiencing Antarctica and the Arctic (TEA) (2002-2005), and Research Experiences in Industry (REI) with Mississippi State University (2005-2007). Principal Investigator for NSF funded teacher enhancement program (2004-2008) Teacher Renewal for Urban Science Teaching (TRUST), now institutionalized at partner institutions. Researcher and Guest Editor for Journal Issue of *The New Educator* (2010) on partnerships between Science Cultural Institutions and Teacher Education Programs in the USA and the UK. Direct international development science and society programs between AMNH and Vietnam and South Africa. Adjunct professor at Columbia University Teachers College and Lehman College (CUNY) in NYC teaching courses on Science Teaching and Learning in Science Cultural Institutions. Dissertation advisor for doctoral students researching science learning in informal contexts at Columbia Teachers College and CUNY Graduate Center for Urban Education. Urban Advantage program partnership designer, and PI in AMNH study of visualization for science concept development in new English language learners of Spanish and Chinese home languages, A NOAA Project.

**1992 - 1997** Teachers College, Columbia University, New York

**Senior researcher at the National Center for Restructuring Education, Schools and Teaching,(NCREST).**

NCREST liaison with certification programs on the implementation of state and national teaching standards initiatives, such as the National Board of Professional Teaching Standards. Program Director, "Leading Edge" a national research project on Professional Development Schools and Teacher Preparation Institutions. Researcher and team coordinator for national study of exemplary teacher education programs funded by Carnegie Corporation and led by Linda Darling Hammond. Evaluator of CPB National Technology Summits. Graduate Course Instructor, Supervision and Administration for Curriculum Improvement.

**1986 - 1992** Bank Street College of Education, New York, NY

**Director, advisor, and instructor:** Pre-Service Teacher Education Program. Administrative and academic role included supervising graduate professors, negotiating partnerships with schools, and leading curriculum committees. Teaching graduate level courses on Curriculum Design; Administration & Supervision of Curriculum Development; Evaluation of Curriculum for Bilingual Programs.

**1997- 2010** Graduate Level Teaching at AMNH for Public & Private Higher Education Programs

"Informal Science" a Museum-designed course for Teachers College, Columbia University. (1997-Present)  
"Science Instruction Beyond the Classroom" a Museum-based course for Brooklyn College (1998-2000)  
"Museum Resources for Teaching Science", AMNH required course for Lehman College (CUNY). 2002-present)

**1982 - 1986** Development Associates Inc., San Francisco, CA.

Director of Curriculum Implementation & Child Development Associate (CDA) Trainers' Program for Migrant communities in Federal Region IX: in California, Idaho, Nevada, Oregon, and Washington.

**1975 - 1978** Bank Street College of Education New York, NY.

**Associate Director of International Programs** Served as cross-cultural advisor to teacher educators from Latin America. Developed and translated bilingual training films and evaluated teacher education curriculum for South American universities.

- **CROSS CULTURAL SELF-STUDY EXPERIENCE**

**1978 - 1979** Sabbatical year in Europe and Northern Africa following personal interest in language loss and retention of minority languages affected by repressive government policies in Scotland, Wales, France, Spain and Morocco.

- **PUBLICATIONS & RESEARCH STUDIES**

- 2010** *The New Educator Journal* (Guest Editor) Special Issue on Teacher Education and Science Cultural Institutions: Widening the Scholarship for Preparing New Science Educators, City College, NYC.
- 2008** Improving urban earth science education: the TRUST model. *Journal of Geoscience Education* 56: 269-279 (also available at: <http://nagt.org/files/nagt/jge/abstracts/macdonald-v56p269.pdf>).
- 2002** A Science Museum's Expedition into the World of Teacher Education. A three year action research study of museum and college partnerships on teacher education. With H. Sloan and E. Miele., Presented at AERA, 2002 in New Orleans, LA.
- 2000** Studies of Excellence in Teacher Education: Preparation at the Graduate level, with Linda Darling-Hammond, AACTE, 2000.
- 1997** Assessment for Equity and Inclusion: Embracing all our children, with L.A. Goodwin. Rutledge
- 1995** Teaching to Learn: An expert teacher's quest for an equity pedagogy". Unpublished dissertation, Teachers College, Columbia University, Department of Curriculum and Teaching.
- 1992** Makers of Meaning in a Learning-Centered School: A Case Study of Central Park East 1. Snyder, Lieberman, Macdonald and Goodwin. NCREST.
- 1991** Advisement: The Journey for Pre service Student Teachers. (1991) In Thought and Practice, Bank Street College of Education. Vol.3, No. 1.

- **Professional Collaborators and Dissertation Advisor**

Dr. Linda Darling Hammond, Stanford University Dissertation Advisor  
Dr. Roger Anderson, Chair of Science Education at Columbia Teachers College, Collaborator in dissertations  
Dr. John Snyder, Provost, Bank Street College of Education. Teacher for a New Era Collaboration  
Dr. Bronwyn Bevan, The Exploratorium in San Francisco CILS Project presentations  
Dr. Ed Mathez, AMNH Scientists on design of programs for science educators in South Africa  
Dr. David Silvernail, University of Southern Maine. Partner in evaluation of NSF REI Program.