

Desiree Di Mauro

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Education

PhD, Environmental Science	George Mason University, Fairfax, VA. Dissertation research on butterfly ecology, pollinator gardens, and citizen science.
Fulbright Scholar	University of Bonn, Germany. Studied international environmental policy and acid deposition policy.
Master of Environmental Management	Duke University, Durham, NC. Studied resource economics and policy, specializing in endangered species issues. Masters research project on ESA and Wilderness Act policy with regard to red-cockaded woodpeckers.
Bachelor of Science	College of William and Mary, Williamsburg VA. Major: Biology. Minor: German (fluent in German)

Professional experience

Teacher and Adjunct Faculty
2008 – present

Virginia Tech, School of Natural Resources, Center for Leadership in Global Sustainability (2008 to present)

- Capstone chair and committee member
- Member of admissions committee, 3 years
- Design and teach graduate online courses including
 - The Chesapeake Bay – A local resource with National Impact
 - Environmental Education and Training
 - Water and Conflict
 - Biodiversity Policy

Fairfax County Public Schools, High School Teacher (2018 to present)

- Biology (honors) for 9th grade students
- Environmental science (AP and non-AP) for 11th and 12th grade students
- Curriculum development team – Fairfax County environmental science course for 9th grade
- Independent curriculum development – 11th and 12th grade environmental science

George Mason University (2016 to 2018)

- Teach introductory Biology (103 and 104/107) to over 250 students per semester
- Supervise student lecture assistants for biology classes

Northern Virginia Community College, Annandale, Manassas, Alexandria, and Loudoun campuses (2008 to 2018). Designed and taught the following online and in-classroom:

- Biology 101 and 102 lectures and lab
- Ecology lecture and lab
- Environmental Science 121 and 122 lecture and lab
- Awardee -- Alumni Association's Adjunct of the Year 2017

American University (Spring 2009) – designed and taught undergrad/graduate course

- Chesapeake Bay – A Local Resource with National Impact

Marymount University (2008-2009) – Biology Lab Instructor

Town of Vienna VA, Conservation and Sustainability Commission 2014 – present	Appointee on the Town of Vienna VA's Community Enhancement Commission. Accomplishments include: <ul style="list-style-type: none"> • Developed, publicized, managed Sustainability Challenge Award program recognizing sustainable businesses in Vienna • Team member – National Wildlife Federation town certification • Provide guidance regarding sustainability issues at the local level, including invasive plant removal, stormwater issues, development planning, and environmental education
Environmental Consultant 2001 – 2008	ASE, Washington DC. <ul style="list-style-type: none"> • Subject matter expert for DOD clients on Federal environmental laws and regulations, including NEPA (EIS/EA consultation), ESA (section 7 review), and DOD regulations and guidance.
Environmental Protection Specialist 1992 – 1998	U.S. Coast Guard Headquarters, Washington DC. <ul style="list-style-type: none"> • Program manager for CG natural resources compliance program <ul style="list-style-type: none"> ○ Used expertise in NEPA, ESA, and MMPA to develop all headquarters policy regarding natural resources management, including formal guidance documents, briefing materials, and training courses. ○ Responsible for development of annual budget estimates ○ ESA expert on team to develop management plan regarding Northern Right Whales ○ Managed beneficial landscaping program throughout CG facilities. This program saved CG facilities over \$30K through interagency cooperation and sustainable landscaping practices. ○ Chesapeake Bay specialist. Wrote, edited, and published quarterly newsletter for all CG Chesapeake Bay units. CG representative to Chesapeake Bay Federal Agencies Committee. ○ Supervised contractors and interns to produce Chesapeake Bay and natural resources program materials. • Program manager for CG internal environmental education and training program <ul style="list-style-type: none"> ○ Researched and wrote CG-wide survey of environmental training and education needs, including 6 month survey of CG units nationwide ○ Wrote, developed, and distributed basic environmental awareness instruction to all CG facilities (including distribution of 1300 training videos and a bi-monthly newsletter distributed to over 400 CG units) ○ CG voting representative to DOD Interservice Environmental Education Review Board ○ Published peer-reviewed article to study the effectiveness of CG environmental training protocols. • Drafted CG Title V Air Permitting instruction
Environmental Scientist 1990-1992	ViGYAN, Falls Church VA. Subject matter expert on projects related to endangered species protection, air resource management, and technical information distribution <ul style="list-style-type: none"> • Project manager of RACT/BACT/LAER Clearinghouse for U.S. EPA • Researched and wrote model permits, general permits, and NESHAP permits for selected source categories under the CAA • Evaluated petitions to delist pollutants from U.S. EPA's list of air toxics • Provided mapping for pesticide effects in endangered species habitats

Environmental Protection
Specialist
1988-1990

U.S. EPA Headquarters, Washington DC. Office of Water Enforcement and Permits.

- Wrote and reviewed reports and manuals concerning the national pretreatment program
- Assisted in pretreatment audits of local programs, as well as in workshops and conferences related to the NPDES pretreatment program
- Lead development of medical waste disposal rule
- Managed contractor activity related to NPDES pretreatment program
- Wrote, published, and distributed technical information nationwide through the Pretreatment Bulletin

Intern
Fall 1988

Congressional Budget Office, Washington DC.

- Assisted in research regarding global warming. Research led to publication of the CBO paper, *Energy Use and Emissions of Carbon Dioxide: Federal Spending and Credit Programs and Tax Policies*, December 1990.

Laboratory Trainee
Summer 1984

Naval Medical Research Detachment for Tropical Diseases, Lima Peru.

- Conducted microbiological tests regarding internal parasites, typhoid, and hepatitis.
- Gained exposure to health care in Peru through frequent visits to military and civilian hospitals to gather data.

Awards, publications presentations, and certifications

Adjunct Faculty of the Year, 2017. Awarded by Northern Virginia Community College Alumni Association.

Fairfax County Environmental Excellence Award, 2016. Awarded as a member of the Town of Vienna's Community Enhancement Commission.

Di Mauro, D., T. Dietz, and L. Rockwood. 2007. Determining the Effect of Urbanization on Generalist Butterfly Species Diversity in Butterfly Gardens. *Urban Ecosystems*.

Di Mauro, D. 2003. The effect of urbanization on butterfly species diversity. 126 pp. PhD dissertation.

Di Mauro, D. and T. Dietz. 2001. An assessment of an interpretive program for the U.S. Coast Guard Training Center. *Conservation Biology*.

Di Mauro, D. 1999. Endangered Species and Public Attitudes toward protection -- A Cape May Case Study. Proceedings of the 11th Society for Human Ecology Conference, May 28-30, 1999.

Di Mauro, D. 1996. Building Habitat Without Breaking the Bank. Proceedings of the American Defense Preparedness Association 22nd Environmental Symposium and Exhibition, March 18-21, 1996.

Adjunct Professional Development Day, Faculty Presenter Spring 2017.

- Putting the "A" in Steam – integrating art into the teaching of science
- How do I keep them interested? Interactive activities for the classroom

Member, Society for Conservation Biology.

Member, Society for Human Ecology, Student Representative 1999 – 2000.

Who's Who in American University Students, 2001.

Related volunteer work

Creation Care Committee, Emmanuel Lutheran Church, Vienna, VA (2014-present). Develop sustainable practices, environmental education programs, and environmental advocacy projects for the church.

VA Save our Streams (2014-- 2019) Conduct quarterly invertebrate monitoring at Difficult Run Stream to determine stream health. Certified stream monitor.

Greenmomster blog. Editor in chief (2011-2018). An environmental blog focusing on environmental and natural resources issues for moms and other interested folks.

VA State Park Volunteer (2010-present). *Sky Meadows State Park, Madison, VA.* Photograph state park events and activities and post to park website. Assist in park naturalist activities and classes. Design official park calendar.

Dance Teacher (1991-2008). *Arlington Center for Dance, Arlington, VA.* Teach classes for children and adults in advanced jazz, beginning to intermediate ballet, and beginning to professional level modern. Sub for classes, 2008 to present.

Science Teacher (2004-2007). *Hands on Science, Vienna VA.* Taught after-school science classes for children in grades K-3. School program coordinator for Marshall Road Elementary School.

National Zoo Volunteer (1991-2006 and 2018). *National Zoo, Washington, DC.* Active in interpretive programs at the Invertebrate Exhibit and the Conservation Research Center (endangered species). Keeper aide at the Bird House.