

**APPENDIX N**

**ECOLOGY RELATED INFORMATION**

**Appendix N-1**  
**Resumes of Key Personnel**

# Lara H. Urvat

## Certified Ecologist, ESA



### Title

Project Manager/Environmental Scientist

### Education & Training

- M.A. Stony Brook University, Department of Ecology and Evolution, December 2006
- B.S. Stony Brook University, Department of Biology, June 2005

### Professional Affiliations, Certifications & Training

- Ecological Society of America, Certified Ecologist
- Society for Conservation Biology
- Long Island Geographic Information Systems Group (LIGIS)
- Long Island Invasive Species Management Area (LIISMA)
- Northeast ARC Users Group (NEARC)

### Professional Experience

Lara Urvat holds a Master's Degree in Applied Ecology and a Bachelor's Degree in Biology with a focus in Environmental Science and has training and experience in field methods for terrestrial and marine environmental monitoring, ecological modeling and field assessments and GIS analysis. Ms. Urvat conducts environmental impact analysis and has participated in a number of ecological and land use management plans, including the Shelter Island Watershed Management Plan, Lake Montauk Watershed Management Plan, the assessment of barriers to fish passage on six south shore streams and Beaver Dam Creek Watershed Management Plan under grants from the NYS Department State. Ms. Urvat was the prime author of the LWRP Section II – Inventory and Analysis for the Town of Oyster Bay LWRP.

### Project Experience

- Long Island Natural History Conference Invasive Species Presentation, March 2016
- Longwood Public Library Restoration Plan
- Longwood Public Library Invasive Species Presentation, July 2016
- EPCAL Grassland Restoration
- Willow Wood at Coram Revegetation Plan
- Manorhaven Beach/Sheets Creek Wetlands Permitting and Restoration Plan Revisions
- NEIWPCC GI/LID Assessment and Conceptual Design for Long Island Sound Study Stewardship Sites
- Tuthill's Creek Watershed Management Plan
- Lake Montauk Watershed Management Plan
- Shelter Island Watershed Management Plan
- Great Cove Watershed Management Plan, Town of Islip
- Beaverdam Creek, Watershed Management Plan, Town of Brookhaven
- Inventory and Analysis of Barriers to Fish Passage for Six Long Island South Shore Estuary Reserve Tributaries
- NEERS Presentation—A Method for Mapping and Prioritizing Diadromous Fish Passage Restoration, May 2011
- Town of Oyster Bay Local Waterfront Revitalization Plan
- Goldsmith's Inlet Draft EIS, Habitat Assessment, Endangered/Threatened Species Assessment
- Artist Lake RTE Species Investigation
- Cold Spring Pond Park Ecological Investigation
- Cenacle Sisters Convent Expanded EAF, Endangered Species Permit, Wetlands Permits
- Sandy Hills, Middle Island, Draft & Final SEIS
- Competition Toyota Draft & final SEIS
- North Manor Estates, Expanded EAF, ACOE Wetland Delineation

# Hannah Emouna



## Title

Environmental Scientist  
Division of Environmental Wetlands &  
Resource Assessment

## Education & Training

- Bachelor of Science in Wildlife Science, cum laude, State University of New York College of Environmental Science and Forestry
- Advanced Graduate Certificate in Geospatial Science, Stony Brook University- State of New York
- Master of Arts in Biology- Concentration in Applied Ecology, Stony Brook University- State of New York

## Professional Experience

Hannah Emouna holds a Master's Degree in Biology with a concentration in Applied Ecology, an Advanced Graduate Certificate in Geospatial Science and a Bachelor's Degree in Wildlife Science. Her extensive training in geospatial science includes the use of remote sensing programs and GIS mapping across multiple platforms. Ms. Emouna is trained to perform environmental monitoring and assessment of both wildlife and plant populations. She regularly performs environmental monitoring that includes habitat composition, analysis, and delineation, ecological modeling and field assessments and for a variety of terrestrial and marine habitats.

Ms. Emouna serves as a point of contact for NP&V and oversees wetland permit applications with the NYSDEC, Army Corps of Engineers (ACOE), NYS Department of State (DOS), and Towns and Villages for several projects across Long Island.

## Professional Affiliations & Certifications

- New York State GIS Association (NYSGIS)
- Long Island GIS Association (LIGIS)
- Huntington-Oyster Bay Audubon Society (HOBAS)

## Prior Experience

- Threatened Species Monitor – MB Environmental Consulting Inc., Fire Island, New York
  - Monitor breeding activity of threatened Peregrine Falcons
  - Complete tri-weekly assessments of chick health and survival
  - Record daily activities of breeding adults and offspring
  - Assess impact of construction activities on nest success and overall bird health
  - Compose and distribute tri-weekly reports, as well as weekly summaries to multiple departments including the NYS Department of Transportation, New York Department of Environmental conservation.
- Field Researcher – White Sea Biological Station, Russia
  - Collected, classified, and analyzed marine invertebrates
  - Completed avian species surveys and point counts
  - Classified and analyzed lichens and their growth rates to determine the time of last substrate disturbance
- Wildlife Rehabilitation Intern – Sweetbriar Nature Center Smithtown, NY
  - Provided rehabilitative care to various native species (mammalian and avian species)
  - Assisted in wildlife intake assessments and the creation and implementation of care plans
  - Responsible for small group tour operations
- Field Researcher – Cranberry Lake Biological Station, Cranberry Lake, New York
  - Analyzed native and non-native minnow populations to determine relative abundance and distributions using seine nets
  - Participated in a small mammal population survey that utilized Sherman traps to determine distribution and abundance. Assisted in mist netting, measuring, and collecting blood samples for genetic analysis of the white-throated sparrow as part of an ongoing project run by Indiana State University

## Title

Sr. Environmental Scientist

## Education & Training

- Hofstra University, Hempstead, NY  
Master of Science, 2004  
Specialization: Environmental Science
- Hofstra University, Hempstead, New York  
Bachelor of Science, 1999  
Specialization: Biology, Organismal Biology

## Professional Memberships, Affiliations, Honors & Awards

- NYSDEC Endangered Species Collector Permit
- American Society of Ichthyologists and Herpetologists
- Society for the Study of Amphibians and Reptiles
- Society Conservation Biology
- Auxinn Scholarship, Dept. of Biology, Hofstra Univ., in recognition of superior performance and academic standing
- Hudson River Graduate Fellowship

## Scientific Publications

- Ner, S.E., and R.L., Burke. 2008. Direct and indirect effects of urbanization on Diamondback terrapins of New York City: Distribution and predation of terrapin nests in a human modified estuary. J. C., Mitchell, R.E. Jung, and B. Bartholomew (eds.). Pp. 107-117In. Urban Herpetology. Herpetological Conservation Vol. 3, Society for the Study of Amphibians and Reptiles.
- Burke, R.L., and S.E. Ner. 2005. Seasonal and daily activity patterns of the Italian Wall Lizard, *Podarcis sicula*, in NY, USA. *Northeastern Naturalist* 12:349-360.

## Technical Reports

- Ner, S.E., and R.L., Burke. February 2005. Prelim. Assessment of Diamondback Terrapins (*Malaclemys terrapin*) Nesting Ecology at Sandy Hook, NJ, Gateway Nat. Recreation Area: 7-9. 2002. Technical Report NPS/NER/NRTR-2005-014. National Park Service. Boston, MA.

## Professional Experience

Recently joining NP&V as an Environmental Scientist, Ms. Ner-Karas has 20 years' experience in performing numerous field studies, wetland delineations, as well as freshwater and tidal wetlands inspections. She routinely has prepared Tidal & Freshwater Wetland Applications, planning and executing the work. Ms. Ner-Karas is experienced in environmental permitting with NYSDEC, ACOE and DOS, as well as Town permitting and is familiar with the flora and fauna of Long Island. Ms. Ner-Karas is familiar with utilizing various trapping methods for wildlife surveys, and with using Trimble GPS to identify markers in the field. She is capable of handling small and large mammals, as well as various amphibian and reptiles. In addition, she also has experience in the preparation of Phase I and II Environmental Site Assessments with a thorough knowledge of the Unified Soil Classification System.

## Project Experience

- **Sr. Environmental Scientist, Nelson, Pope & Voorhis, LLC, Melville, NY**  
NOC and NOT preparation under General Permit for PSEG-LI, wetlands feasibility, wetlands permitting and delineations, habitat and wildlife assessments.
- **Principal Ecologist/GIS Specialist- Dru Associates, Inc., Glen Cove, NY**  
Preparation of Tidal & Freshwater Wetland Applications, planning and executing the work under changing project management parameters. Initiating project directives, reports, and represent the organization in negotiations with the client, states, municipal authorities, interested parties and local governments. Serving as the project manager/leader of the project delivery team. GIS analysis to determine where different natural resources are located. Serving as liaison between DEP, NYSDEC, DOS, ACOE and client. Preparing various permitting documents and Environmental Impact Statements. Perform habitat assessments and perform wetland delineations.
- **Adjunct Professor, Hofstra University, Hempstead, NY**  
General Biology 012 Laboratory  
General Biology 001 & 002 Laboratories  
Introduction to Environmental Systems Laboratory (TPP 001)
- **Graduate Teaching Assistant, Hofstra University, Hempstead, NY**  
BIO 1 Introductory Biology  
BIO 2 Animal Biology, Animal Physiology Laboratory
- **Volunteer- National Park Service's Gateway National Recreation Area**  
Participant in surveys with the National Park Service's (NPS) Gateway National Recreation Area in preparing to implement a pilot salt marsh restoration project at Jamaica Bay Wildlife Refuge's Big Egg Marsh.

Paid Participant and field assistant in various studies and projects related to the Jamaica Bay Ecosystem Restoration (JABERRT) Project (mammal, reptile and amphibian surveys, GIS mapping of salt marshes).

Mark-recapture of the diamondback terrapin (*Malaclemys terrapin*), in Jamaica Bay, NY

# Ashley Crespo



## Title

Assistant Landscape Ecologist

## Education & Training

- Bachelor of Arts Degree in Architecture and Earth Science (double major), Landscape Studies (minor), University of Pennsylvania, 2017

## Computer Skills

- Proficient in AutoCAD and SketchUp, GIS
- Proficient in Adobe Creative Suite (Illustrator, Photoshop, InDesign, Lightroom)
- Proficient in Autodesk Revit, Rhino, Grasshopper, Rhino VRay,
- Experience in 3D printing (MakerBot and Powder Prints)
- Experience in Laser Cutting

## Language Skills

- Fluent in Spanish

## Professional Experience

Ashley Crespo holds a Bachelor of Arts Degree with a double major in Architecture and Earth Science, and a minor in Landscape Studies and has recently joined NP&V. Ms. Crespo contributes professional planning and graphic expertise for NP&V's sustainable landscape design services. Her skills are used to bring redevelopment concepts to life creating 3D views, photo simulations, and shadow studies. Ms. Crespo integrates the existing environment and proposed landscaping with the built environment through site analysis, model making and preparation of graphic illustrations. Ms. Crespo has created rain garden designs and wetland buffer restoration ranging in size and location from small backyard gardens to a large 700-foot long median. She also designs promotional, educational and environmental signage for raingardens, solar arrays, parks and institutional properties.

Ms. Crespo regularly assists with environmental monitoring visits focusing on habitat composition, delineation and field assessments for a variety of terrestrial and marine habitats across Long Island.

## Relevant Experience

- **Asst. Landscape Ecologist, Nelson, Pope & Voorhis, LLC, Melville NY:**
  - Ecological and Environmental Analysis
    - Southern Pine Beetle Surveys
    - Preparation of ecological sections of EIS documents
  - Wetland Restoration Plan Design and Review:
    - Lake Agawam Restoration Plan
    - The Meadows Restoration Plan
  - Environmental Signage:
    - Ronkonkoma Train Station Rain Garden Signage
    - Manorhaven Park and Preserve
  - Shadow Studies and Visual Assessment:
    - New Rochelle Downtown Overlay Zone
    - Village of Woodsburgh Planning and Zoning Analysis
    - 2016 Arthur Ave CEQR EAS
- **Architectural Intern, N2Design and Architecture (Pt Washington, NY):** Daily tasks included drafting, expediting contract administration responsibilities, and site surveys. Ms. Crespo was also responsible for the set up of all construction drawings for the current projects, as well as the input of all redline changes and revisions.
- **Summer Institute Intern, NYC Parks and Recreation (NYC, NY):** Through the NYC Parks Initiative, she worked with a group of teenagers who were interested in sustainable design. She was responsible for creating and teaching weekly lessons that explored the local landscape and human dynamics through site analysis, model making, graphic presentations and SketchUp tutorials.
- **Soil Biogeochemistry Research Assistant, University of Pennsylvania (Philadelphia, PA):** Assisted with the processing and packaging of soil samples from the Luquillo CZO plot in Puerto Rico to be analyzed by the Carbon-Nitrogen elemental analyzer. In summer, partnered with the US Forest Service to conduct soil pit extractions in the Delaware River Basin.

# Raymond Marino



## Title

Environmental Scientist  
Long Island Office, New York

## Education & Training

- Long Island University, Brookville, NY  
Masters of Science, December 2014  
Major: Earth Science
- Dowling College, Oakdale, NY  
Bachelor of Science, January 2010  
Major: Environmental Science,

## Professional Affiliations, Certifications & Training

- Long Island Master Naturalist
- OSHA Certified Hazardous Waste Health and Safety Worker (40-Hour)
- OSHA Construction Safety and Health certificate (10-Hour)
- Certified in Wetlands Delineation
- First Aid trained
- Army Corps of Engineers Wetland Delineation/Regional Supplement/Waters of the United States Training

## Professional Experience

Mr. Marino joined NP&V in September 2018. He is OSHA Certified as well as certified in Wetlands Delineation with 8 years of experience in environmental planning, SEQRA and Phase I and II Environmental Site Assessment (ESA) report preparation. His expertise includes site inspections, wetland delineations, wetland permitting, ecological assessments, and groundwater, soil and air testing. Mr. Marino performs environmental monitoring that includes habitat composition, analysis, delineation and field assessments for a variety of terrestrial and marine habitats. His most recent positions include an assistant site manager, environmental scientist and lab assistant.

## Project Experience

- **Environmental Scientist, Nelson, Pope & Voorhis, LLC, Melville, NY**
  - Prepare Notice of Completion and Notice of Termination applications for PSEG-LI under General Permit
  - Ecological Assessments for Environmental Impact Statements
  - Wetland Permit applications with NYSDEC, Army Corps of Engineers (ACOE) and NYS Department of State (DOS)
- **Staff Scientist, VHB Engineering, Hauppauge, NY**

Assisted in the preparation of Phase I Environmental Site Assessments (ESAs) and participated in field work associated with Phase II ESAs.

  - Assisted in many environmental planning activities including preparation of DEIS/FEISs in accordance with SEQRA, land use studies, and EAF preparation
  - Completed site inspections and groundwater, soil and air testing
  - Wrote out Phase I ESA reports
  - Collected samples at various sites across New York state
  - Performed data analysis of sample results with Phase II reports
  - Developed positive public relations with client affairs
  - Communicated with government institutions regarding FOIL applications
  - Applied for various records under FOIL
  - Performed ecological assessments
  - Performed wetland delineations
- **Independent Study- "Analysis of Gall Mortality" Dowling College, Oakdale, NY**

Presented at Brookhaven National Laboratories: An Exploration of the Natural History of the Scrub Oak Gall-Maker. Conducted research involving tagging and collection of gall making species in the Long Island Pine Barrens and laboratory study including microscope work and preservation of organisms.
- **Assistant Site Manager, TWA Flight 800 Memorial, Mastic Beach, NY**

Maintained the memorial in all facets, including horticultural care, irrigation and electrical maintenance, and general grounds keeping.
- **Volunteer, Wertheim National Wildlife Refuge**

Provided information at park in regards to flora and fauna, and administrative assistance to USFWS employees