

Calder N. Orr

3875 Waldo Ave, 3A Bronx, NY 10463

Calder.Orr@gmail.com

615-423-6116 (mobile)

EDUCATION:

Columbia University, School of International and Public Affairs, New York, NY

Master of Public Administration, Environmental Science and Policy

Columbia University, Columbia College, New York, NY

Bachelor of Arts, Environmental Science

Battle Ground Academy, Franklin, TN

High School

EXPERIENCE:

Port Authority of New York and New Jersey (PANYNJ)

Environmental Program Manager – Sustainability

New York, NY

Winter 2023- Present

Aviation Department

- Manage implementation of Zero-Emission Airside Vehicle Rule (ZEAV)
 - Manage tenant relationships in regards to ZEAV
 - Through the Technology Workgroup carryout Commercial Availability analysis of vehicle/equipment regulated under ZEAV
- Identify and Pursue grant opportunities
 - Establish and monitor agreements
 - Ensure proper grant reporting and tracking
- Plan and carryout sustainability initiatives for: zero-emission, zero-waste, and other sustainability sectors.
- Assist in Environmental Compliance initiatives: especially related to regulatory changes.
- Innovation Projects: submit and implement innovation projects to see how they can help PANYNJ meet sustainability and environmental goals

New York City Police Department

Research Scientist III – Environmental Programs Manager

New York, NY

Summer 2017- Winter 2023

- Develop facility and operational stormwater plans for MS4 compliance
- Manage the development and maintenance of other environmental compliance documents (i.e. Industrial MSGPs, SPCCs, and their related plans and documents)
- Liaison with and assist other NYPD Divisions with environmental issues as they arise (i.e. waste management, RCRA Compliance)
- Work on climate response and adaptation from individual facility flood plans new building design using Climate and Resiliency Design Guidelines, to inter-agency climate workshops
- Handle mapping using ArcGIS, and other software for maintenance of geographical inventories, planning, and presentation purposes
- Review Phase I and II ESAs
- Take part in CEQR and ULURP review processes for both actions under taken by NYPD and outside actions that may impact NYPD
- Work on innovative projects such piloting onsite organic waste aerobic composting at NYPD facilities to reduce landfill waste and great a beneficial product out of our organic waste.

Inter-Agency Committees:

Climate and Resiliency Design Guidelines Pilot Implementation

- Project Manage the implementation of pilot guidelines on 2 NYPD Capital construction projects. The main project being \$260 million dollar indoor shooting range and training facility construction.

New York Power Authority Climate Resilience For Emergency Response Facilities Pilot

- Working with NYPA on implementing solar and battery storage at NYPD facilities

Municipal Separate Storm Sewer System (MS4) Permit

- NYPD representative for permit implementation and stormwater plan development

Climate Adaptation Long-term planning

- Planning committee to discuss city-wide climate strategies to 2100

Flood Mitigation and Emergency Response

- Coordinate NYPD just-in-time flood plans and other facility flooding mitigation efforts

New York City Department of Transportation*Research Scientist II – Environmental Compliance Assessment***New York, NY**

Summer 2014- Summer 2017

- Develop facility and operational stormwater plans for MS4 compliance
- Manage the development and maintenance of other environmental compliance documents (i.e. Industrial MSGPs, SPCCs, and their related plans and documents)
- Liaison with and assist other DOT Divisions with environmental issues as they arise
- Manage databases of environmental programs (spill records, pesticide usage, water treatment devices, and permit compliance timeframes)
- Handle mapping using ArcGIS, QGIS, and other software for maintenance of geographical inventories, planning, and presentation purposes
- Review Phase I and II ESAs

New York City Department of Environmental Protection*Research Scientist – Drinking Water Quality***New York, NY**

Winter 2009- Summer 2014

- Managed monitoring, analyses and data reporting for the Lead and Copper Rule Program
- Managed monthly Water Quality, Croton Consent Decree and Filtration Avoidance Determination reports
- Conducted research on lead and copper corrosion in drinking water
- Led teams in advanced sampling of contaminants of emerging concern in the water supply
- Participated in DEP educational outreach programs such as Trout in the Classroom trout release program and Green Horizons, a high school green jobs development program
- Conducted research on regulatory topics to help prepare NYC drinking water system for impending regulatory changes, i.e. Hexavalent Chromium regulations.

Hudson River Park Trust*Educator – Estuary Science***New York, NY**

Summer 2009-Fall 2009

- Trained camp instructors
- Lead educational classes for summer campers and the public about the health of the Hudson River Estuary
- Taught basic estuary ecology to park patrons
- Effectively communicated park policy and mission to patrons

Gateway National Recreation Area – SIPA*Researcher – Climate Change Adaptation***New York, NY**

Winter 2009- May 2009

- Researched local climate related impacts on natural systems as well as man made infrastructure
- Applied regional climate change data to creating climate adaptation plan
- Developed cost efficient adaptation strategies specific to the park
- Studied the impacts of climate change on local coastal wetlands

Cambodia Project, Inc.*Sustainability Research and Development Associate***New York, NY**

Winter 2009-Winter 2010

- Managed research on best practices in field of agriculture and sustainability in Cambodia
- Developed guides for planting and energy sustainability
- Contacted and communicated with experts in the relevant fields of sustainability

Cooper & Dunham LLP*Legal Assistant – Biomedical Patenting***New York, NY**

Fall 2007-Summer 2008

- Filed and maintained biological and medical patents with U.S. Patent and Trademark Office
- Prepared correspondence communicating patent stages with clients
- Interviewed perspective candidates for legal assistant positions
- Trained new legal assistants

Native Village of Eyak*Fisheries Research Technician***Cordova, AK**

Summer 2007

- Coordinated remote field station operations
- Conducted research on salmon spawning and species health
- Recorded Biotics on salmon
- Provided the native community that with an abundance estimate, from which they could determine sustainable commercial and private fishing quotas and regulations

Lamont – Doherty Earth Observatory*Research Assistant - Paleoclimate***Palisades, NY**

Summer 2006

- Worked in lab setting as an integral part of renowned climate change research group lead by Dorothy Peteet
- Pursued research outside of advisors expectations by expanding upon the types of fossils being used as paleoclimate thermometers
- Gave presentations on thesis to large groups of peers and experts on findings

Tennessee Valley Authority*Contractor – Stream Health Surveyor***Knoxville, TN**

Summer 2005

- Collected and analyzed fish and benthic data
- Learned to differentiate between over 100 species of fish
- Mastered the use of electro-fishing techniques
- Carried out techniques used to compute stream health such as an index of biological integrity matrix

ACTIVITIES:

- CO-OP Board Member 2021-Present
- MET NY Rugby Vice President 2018-Present
- Hurricane Sandy Response Volunteer NYC DEP 2012
- Hurricane Irene Shelter staff volunteer 2011
- New York Knights NRL member 2010- 2017
- Old Blue Rugby member 2007-present; Vice President 2012-2016, President 2016-2018
- Columbia University Varsity Football 2003-2007
- Columbia University Rugby Football Club (CURFC) member 2007
- Hawaii Club Hula group performer 2007
- Children in the Bronx Volunteer PE instructor 2005-2006
- St. Paul's Vacation Bible School PE instructor 1999-2003
- Mountain Top home restoration and upkeep volunteer summer 1999 and 2000

HONORS:

- Served as President, Vice President, and Captain for Old Blue RFC
- Civil Service – Admin City Planner and Admin Staff Analyst
- MS Access 2007 Level 1 certification 2010
- MPA ESP Fall 2008 Workshop Deputy Manager
- Old Blue RFC Division I forward of the year 2007
- Columbia University NCAA, Division I-AA Football student-athlete
- Victor V. Kaminski III Memorial Scholarship Fund named scholarship for the 2006-2007 academic year
- 2006 Columbia Lions Football Maniatty - Remmer Unsung Hero Award
- Battle Ground Academy, Franklin, TN National Honor Society
- Battle Ground Academy, Senior Award of Excellence
- Battle Ground Academy, Football Co-Captain 2003