

### ALEXANDRA CRUZ

#### CURRENT ADDRESS

4006 Balch Hall  
Ithaca, NY 14853  
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#### PERMANENT ADDRESS

288 Forest Avenue Apt 4J  
Queens, NY 11226  
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#### EDUCATION

**Cornell University**, Ithaca, NY  
College of Architecture, Art, and Planning and College of Engineering  
Dual degree candidate for Bachelor of Fine Arts and Bachelor of Science, May 2012  
Majors: Fine Arts (Painting) and Geological Sciences (Environmental Chemistry and Hydrology)  
GPA: 3.63

**Richmond Hill High School**, Brooklyn, NY  
Class Valedictorian; Top Senior in Queens School District 2006

#### AWARDS

National Society of Collegiate Scholars • New York State Merit Scholarship • Science Technology Entry Program Scholarship • United Federation of Teachers Scholarship

#### RESEARCH EXPERIENCE

**Undergraduate Research** Spring 2012  
*Department of Geological Sciences, Cornell University, Ithaca, NY*  
Explored physical and chemical processes that produce ore deposits by modeling their formatting using computer codes. Learned finite difference, finite element, and chemical foundations needed to understand how programs work. Monitored activities of fluid flow, geochemical, and hydrological modeling team.

**Soil Physics Research** Fall 2010 and Spring 2011  
*Department of Crop and Soil Sciences, Cornell University, Ithaca, NY*  
Prepared soil samples for routine physical analyses. Measured soil porosity and hydraulic conductivity. Performed other related laboratory tasks as necessary.

#### TUTORING EXPERIENCE

**Tutoring Program** Spring 2012  
*Diversity Programs in Engineering, Cornell University, Ithaca, NY*  
Tutored minorities and females in the Engineering College on first-year general chemistry. Assisted with homework and laboratory reports.

**Mentorship/Tutoring Program** Spring 2011  
*Paul Scheurs Memorial Program, Ithaca Youth Bureau, Ithaca, NY*  
Volunteered as mentor to children in Ithaca community. Tutored individually in mathematics and science. Aided in preparing artistic activities and planning field trips.

#### ADDITIONAL SKILLS

Graphic Design, Photoshop, and Microsoft Office Suite.  
Fluency in French and Haitian Creole. Knowledge of Spanish.

#### ACTIVITIES

Minority Student Organization, College of Architecture, Art, and Planning—Secretary  
Christian Mission Trips to Panama