

# ZHUYING XU

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## CAREER INTERESTS

Environmental Consulting; Product and Supply Chain Sustainability; Life-cycle Assessment; Cost-benefit Analysis.

## EDUCATION

### MASTER OF ENVIRONMENTAL MANAGEMENT, MAY 2018

#### Certification of Sustainable Systems Analysis

Nicholas School of the Environment, Duke University, Durham, NC.

*Concentration:* Environmental Economics and Policy.

*Courses:* Resource and Environmental Economics, Tropical Ecology, Environmental Politics.

*Skills:* Life-cycle Assessment, Sustainable Systems Analysis, Cost-benefit Analysis, Statistics (STATA).

### BACHELOR OF ENVIRONMENTAL STUDIES, APRIL 2016

University of Waterloo, Waterloo, Ontario, Canada.

### BACHELOR OF SCIENCE IN GEOGRAPHY, APRIL 2016

Nanjing University, Nanjing, Jiangsu, China.

Highly selective 2+2 Program.

*Majors:* Geography and Environmental Resource Management.

*Courses:* Environmental Economics, Climatology, GIS, C Programming, Natural Hazards.

## EXPERIENCE

### Project Innovator, Duke Interdisciplinary Social Innovators Student Club, Duke University, Durham, US.

Performed cost-benefit analysis of the removal and replacement of 20,000 dying willow and water oak trees for the client Durham City-County Environmental Affairs Board. Used i-Tree software to calculate the monetary value of trees' environmental benefits including storm water interception, energy savings, carbon sequestration, air quality improvement and aesthetic values. Present the final report to the Durham City Council. February 2017.

### Research assistant, Client-based Capstone Project with Schneider Electric, Duke University, Durham, US.

Validated the ROI of sustainably-centric use cases in the Chatham Park development for the client Schneider Electric. Constructed energy models to compare residential energy efficiency with a combination of Schneider Electric products and energy efficiency measures using eQUEST software. April 2017.

### Client-based Project, REI, Duke University, Durham, US.

Measured the Higg Index and developed a life-cycle assessment model for REI's product Flex Lite chair to examine product and supply chain sustainability including greenhouse gas emissions, wastewater treatment, and chemical management. Provide recommendations on re-designation of the product and sustainability practices in the supply chain. April 2017.

### Undergraduate Honors Thesis, University of Waterloo, Waterloo, Canada.

*Tilted Disaster Aid Coordination: Online Platform as a Disaster Response to the 2015 Nepal Earthquake.*

Examined if online crowdsourcing platforms can be effectively and efficiently used for disaster coordination by taking two online platforms as examples: OpenStreetMap and QuakeMap. Established a conceptual framework to identify the effectiveness of the platforms. Designed and distributed surveys to the designer Kathmandu Living Labs and involved disaster relief agency UNSECO Kathmandu. April 2016.

### National Olympic Committees Volunteer, Nanjing 2014 Youth Olympic Games, Nanjing, China.

Served as a translator for international athletes, coaches, and government officials. September 2014.

## LEADERSHIP EXPERIENCE

### Department Prefect, Nanjing University, Nanjing, China.

Acquired Nanjing Youth Olympic Games Organizing Committee sponsorship to promote volunteer participation by organizing a large-scale Olympic Knowledge Competition on campus. December 2013.

Invited local folk artists and craftsmen in Nanjing to perform on campus, calling for preservation of Chinese traditional arts and culture. April 2014.