# Yeyang (Benson) Zu

1539 Beloit Ave, Los Angeles, CA

zuyeyang@gmail.com

(310) 254-4600

## EDUCATION

**University of California, Los Angeles**                    Expected Graduation: June 2021

Bachelor of Environmental Science with a Minor in Environmental Engineering. Minor in Statistics

GPA: 3.88

## RELATED COURSEWORK

- Machine Learning
- Probability and Statistics for Engineers
- Elementary Fluid Mechanics
- Data Programming with R
- Computer Programming with MATLAB

## PUBLICATION

- Valenca, R., Borthakur, A., **Zu, Y.**, Stenstrom, M. K., and Mohanty, S.K. (202X) Biochar selection for Escherichia coli removal in stormwater biofilters. [**Submitted: July 7, 2020**]

## HONORS

- The University of California, Los Angeles Dean's list (Fall 2017 – Fall 2019)

## RESEARCH

**University of California, Los Angeles**                          **Los Angeles, CA**

**Institute of Environmental Science**                             Oct 2019 – Present

*Lead Data Analyst of Patagonia Reservation Team*

- Analyzing satellite images to map the extent of invasive willow populations along the Limay River.
- Calibrating remote sensing data with the Random Forest model with open public sources
- Designing a script for the classification of willows near the Limay River in Argentina
- Proposing a technical operation manual to our partner the Neuquén Center for Applied Ecology
- Fundraising more than $13000 to support ground-truth process in Argentina

**University of California, Los Angeles**                          **Los Angeles, CA**

**Department of Civil and Environmental Engineering**              March 2019 – Present

*Undergraduates Intern in Engineering Critical Zone Lab*

- Design experiment of "NTO Removal with Fungal Biofilter" under the supervision of a Ph.D. candidate.
- Conduct contaminants removal project to improve NTO removal efficiency by adding biochar.
- Independently conducting experiments that link biochar properties with its bacterial removal capacity
- Producing Arger plates and Quantifying the E.coli data samples by using spread-plate methods.
- Currently having a paper submitted for publication and a paper aiming to publish in Fall 2020.

**Santa Monica Mountain Stations**                                      **Los Angeles, CA**
**Mountains Restoration Trust**                                          Jan 2019 – July 2019
*Data Collector of Post-fire Research Project*
- Ground Truthing the recovery states of fauna with plot method on the Santa Monica Mountains
- Applying plot methods to collect plant samples twice a month to evaluate the biodiversity of mountains.
- Updated modeling database of the central repository to track the short-term ecological recovery.

## SKILLS

**Computer Programming:** Proficient in MATLAB, Python, ArcGIS Mapping, Microsoft Excel.
**Lab Techniques**: Enzyme Assays, Autoclave, Centrifuge, Spectroscopy, pH Meter, DO Meter
**Language**: Fluent in Mandarin, Proficiency in English

## LEADERSHIPS

**University of California, Los Angeles**                                **Los Angeles, CA**
**Rye International Fraternity**                                         Mar 2018 – Sep, 2019
*Director of Marketing*
- Established a close-knit, selective community for UCLA Students to build friendships
- Marking in social media for recruitment, event, community influence purpose
- Developed necessary professional abilities for members in their respective fields

## PROFESSIONAL AFFILIATIONS

- American Water Works Association (AWWA), UCLA
- American Society of Civil and Environmental Engineering(ASCE), UCLA
- Environmental Student Network (ESN), UCLA
- Carbon Neutrality Initiative Campaign (CNI Campaign)