Yeyang (Benson) Zu

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(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

- Solar Energy Harvesting
- Machine Learning
- Thermodynamics and 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. [**Accepted: Sep 22, 2020**]

HONORS

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

RESEARCH

Jiangsu Software Park, China   **Los Angeles, CA**

Dongda Institute of Smart Environment and Energy   Sep 2020 – Present

Internship of Renewable Energy Network Design

- Designing a Photovoltaic/Thermal system with a DC compressor to improve its heating water efficiency
- Negotiating with the integrator for the installation plan depending on the research infrastructures
- Exploring a remote monitoring approach to oversee and fix the solar hybrid system

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)