

Yeyang (Benson) Zu

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OBJECTIVE

I want to apply for the FUTU scholarship for participation in the summer internship “ESPE-UC-2020” held in University of Tokyo next summer, in order to enhance my research experience as a step to become an academic researcher in the future.

EDUCATION

University of California, Los Angeles

Sep 2017- June 2021(Expected)

Bachelor of Environmental Science with a Minor in Environmental Engineering

GPA: 3.84/4.00

Nanjing Jinling High School, China

Sep 2014 - June 2017

GPA: 4.00/4.00

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.
- Implementing restorations activities by conducting a cost-benefit analysis.
- Calibrating remote sensing data with ground truth data by visiting Patagonia.
- Proposing a restoration plan based on the externalities on existing trout populations and local livelihoods.

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.
- Analyze the dissolved oxygen to compare fungi and bacteria activities in anoxic and oxic conditions.
- Currently composing a paper aiming to publish in 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.

LEADERSHIP

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

University of California, Los Angeles

Los Angeles, CA

Rendezvous Food Service

Jan, 2018 – June, 2018

Student Supervisor

- Generate positive results by focusing on customer service, employee development and profitability
- Prepare daily and weekly sales projections and working shifts arrangement utilizing Microsoft Excel
- Awarded the student of the month for the months of September, October, and November.

Nanjing Jinling High School

Nanjing, China

Rye International Fraternity

Oct, 2016 – Oct, 2017

President of Student Union

- Coordinated events benefiting students, dealing with student career development and civic engagement, while managing an academic year budget of over 5,000 dollars
- Serve in various campus committees, reviewing the school's policies, processes, and student issues
- Initiated a year long on-campus sustainable competition in recycling textbooks.

PROFESSIONAL AFFILIATION

- 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)

SKILLS

Computer Programming: Proficient in MATLAB, Python, ArcGIS Mapping, Microsoft Excel.

Lab Techniques: Ion chromatography, Enzyme Assays, Autoclave, Centrifuge, Spectroscopy,

Language: Fluent in Mandarin

Related Coursework

- Environmental Engineering
- Probability and Statistics for Engineers
- Computer Programming with MATLAB
- Geographic Information Systems

REFERENCES

Sanjay Mohanty

Assistant Professor, Department of Environmental Engineering

Relationship: Faculty Advisor

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