

CAMILLE H. LE, E.I.T, LEED GA

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M.S. graduated, self-starting, and resilient **Junior Development Engineer** with 1+ years of experience in green infrastructure, stormwater management, and sustainable development. Managing the Caltrans project on roadside stormwater BMPs at UCLA that led to two publications in 2020. Skilled in teamwork, verbal and written communication, data analysis and visualization. Seeking to leverage expertise and company value in an **entry-level** position of Water Resources Engineer, Civil/Environmental Engineer

RESEARCH & INDUSTRY EXPERIENCE

Junior Development Engineer, California Department of Transportation & UCLA, Los Angeles Feb. 2020 – Present

- Manage and lead Caltrans - UCLA joint Soil Amendment Guidance for Infiltration and Stormwater Management project to achieve compliance with National Pollutant Discharge Elimination System (NPDES) permit
- Conduct research, field and 12-inch PVC columns lab experiments to design the soil-based roadside Best Management Practices (BMPs) that enhance infiltration and treat stormwater runoff
- Utilize GIS and NRCS Web Soil Survey to locate and collect non-disturb hydrologic soil groups within Caltrans Right of Way, and develop an empirical model to forecast sediments clogging in biofilters that helps predict maintenance schedule in advance

Graduate Student Researcher, UCLA, Los Angeles Sep. 2018 – Dec. 2019

- Designed and constructed 24 lab-scale biofilter columns packing with biochar, compost and sand, and evaluated stormwater quality and E. coli bacteria removal capacity at various soil conditions compaction
- Investigated the breakage mechanism of biochar under soil compaction and its effects on contaminant removal, which resulted in fragmentation were the dominant mechanism, rather than abrasion, in biochar particles
- Used R to interpret the complex data, create figures and charts for visualization and presented result in a 40-page dissertation

Data Manager, The ADEPT Group & UCLA, Los Angeles Sep. 2017 – Jun. 2018

- Collected, analyzed and synthesized data to evaluate drones monitoring and inspection at 5MW solar plants
- Summarized a 10-page review of solar cells generations and plants inspection methods, designed business surveys and conducted surveys of 50 utility-scale solar plants' Operation & Maintenance (O&M)
- Delivered a 30-page cost and profit report that contributed to more than 15% increase in plants profit and solar cells efficiency with drones inspection

PROFESSIONAL & LEADERSHIP EXPERIENCE

Research & Development Collaborative Lead, VECS, Vietnam Jun. 2019 – Sep. 2019

- Developed the art concept and intellectual content of a creativity 52-card deck to develop players creative thinking process

Event Coordinator, UCLA Society of Women Engineers for Graduates (SWE), Los Angeles Sep. 2018 – Jun. 2019

- Collaborated with industry professionals to coordinate 5 information sessions at UCLA, and individually instructed DIY sustainable workshops in making reusable food wraps from bee wax, organic cotton cloths, and iron for 20 graduate students

Graduate Advisor, UCLA American Society of Civil Engineers (ASCE), Los Angeles Sep. 2018 – Mar. 2019

- Advised Environmental Design Project Team in designing a wastewater treatment system to treat topsoil, vinegar, iron and olive oil, and analyzing water samples quality. The team won 1st place in the competition at the Pacific Southwest Conference

KEY SKILLS

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|---------------------|---------------------|--------------------|--------------------|
| • Technical writing | • Public speaking | • Adaptability | • Service-oriented |
| • Time management | • Critical thinking | • Active listening | • Interpersonal |

Software: RStudio, GIS, AutoCAD, SWMM, Ed GCM, Office Suites (MS Office Suite, G-suite)

Language: Vietnamese (fluent), Mandarin (elementary)
Methodology: Life-cycle Assessment (LCA)

ACCREDITATIONS & CERTIFICATIONS

Engineer-In-Training (E.I.T) (#171226) • LEED Green Associate (#11241046) • Leader In Sustainability by UCLA

Introduction to Data Science by IBM (Courses: SQL, Python, Jupyter Notebooks, Cloud Database)

(In-process)

PUBLICATIONS

- (1) **Le, H.**, Valenca, R., Ravi, S., Stenstrom, M. K., & Mohanty, S. K. (2020). Size-dependent biochar breaking under compaction: Implications on clogging and pathogen removal in biofilters. *Environmental Pollution*, 266, 115195.
- (2) Ghavanloughajar, M., Valenca, R., **Le, H.**, Rahman, M., Borthakur, A., Ravi, S., Stenstrom, M.K. and Mohanty, S. (2020) Compaction conditions affect the capacity of biochar-amended sand filters to treat road runoff. *Science of the Total Environment*, 139180.

EDUCATION

University of California, Los Angeles (UCLA)

Los Angeles, CA

Master of Science in Water Resources and Environmental Engineering

GPA: 3.42

Dec. 2019

Bachelor of Science in Environmental Science and Environmental Engineering

GPA: 3.56

Aug. 2018