# 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 design, stormwater management, and urban sustainable development. Manage the Caltrans project on roadside stormwater Best Management Practices that led to 2 publications in 2020. Skilled in teamwork, verbal and written communication, data analysis and visualization. Seeking to leverage expertise, leadership skills and company value in an **entry-level** position of 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

- Collaborated with 5 people to collect, analyze and synthesize data for the Practicum Project that evaluated 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 that emphasized Vietnamese culture with the touch of Western spirit to promote players develop their 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 lab-scale wastewater treatment system to treat topsoil, vinegar, iron and olive oil for the competition in Pacific Southwest Conference 2019, and weekly assisted 6 undergraduate students in analyzing water samples quality (pH, DO, temperature, conductivity, turbidity). The team won 1st place in the competition

## KEY SKILLS

- 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 out of 2)

**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.

## 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