Viet Le

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Education

Northeastern University — Boston, MA
Ph.D. Candidate - GPA: 3.72 — *Sept. 2016 – Present (expected graduation May 2020)*

University of Massachusetts Lowell — Lowell, MA
M.S. in Civil and Environmental Engineering (Structural Engineering) - GPA: 4.00 — *Sept. 2015 – May 2016*
B.S. in Civil and Environmental Engineering - GPA: 3.98 — *Sept. 2011 – May 2015*

Professional and Research Experience

Northeastern University — Boston, MA
Structural Engineering Graduate Research Assistant — *Sept. 2016 - Present*

- Developed a performance-based engineering framework for the analysis of vertical structures subjected to non-stationary wind loads generated from thunderstorm downbursts and tornadoes
- Conducted wind tunnel experiments to physically simulate non-stationary wind outflows and their effects on a tall building model using a high frequency force balance

Structural Engineering Graduate Teaching Assistant — *4 semesters from Sept. 2017 - May 2019*

- Provided assistance for Steel Design and for Materials and Measurements courses. Graded homework and lab reports, led lectures and labs, and held office hours for students

GCP Applied Technologies — Cambridge, MA
Research Intern — *Jun. 2016 - Aug. 2016*

- Performed image analysis and data clustering techniques for the improvement of quality control for concrete mixes

University of Massachusetts Lowell — Lowell, MA
Structural Engineering Undergraduate Research Assistant — *May 2013 - May 2016*

- Involved in the multiphysical nondestructive evaluation of cementitious composites using microwave imaging radar, ultrasonic testing, dielectric measurements with a contact probe, and an unmanned aerial vehicle

Software Skills

- **Proficient/Working Knowledge**: MATLAB, Microsoft Office, Python, LaTeX
- **Basic Knowledge**: ANSYS Fluent, OpenFOAM, AutoCAD, C++, LabView

Publications

Peer-Reviewed Journal Publications

- Le, V.; Caracoglia, L. (2019). "Life-cycle cost analysis of a monopole structure subjected to tornadic wind loads." *ASCE Journal of Structural Engineering. In Press.*
- Le, V.; Caracoglia, L. (2019). "Generation and characterization of a non-stationary flow field in a small-scale wind tunnel using a multi-blade flow device." *Journal of Wind Engineering and Industrial Aerodynamics.* 186: 1-16.
- Le, V.; Caracoglia, L. (2018). "Computationally efficient stochastic approach for the fragility analysis of vertical structures subjected to thunderstorm downburst winds." *Engineering Structures.* 165: 152-169.

Community Outreach

Northeastern University Graduate Structural Engineering Association — Boston, MA
Chair — *Sept. 2018 - Sept. 2019*

- Organized student-led presentation series, professional seminars, and "Documentary Nights" for graduate structural engineering students

1st Northeastern University - Tongji University Workshop on Wind Engineering — Boston, MA
Student Co-Chairman — *May 2019*

- Co-led a student organized workshop to discuss the latest developments in wind engineering research from Northeastern University and Tongji University