Viet Le

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Education

Northeastern University — Boston, MA
PhD Student; GPA: 3.67 — *Sept. 2016 – TBD*

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 — *September 2016 - Present*

- Developed a performance based engineering approach to the analysis of non-stationary wind on loads on vertical structures using the wavelet-Galerkin approach for numerical solution
- Conducted wind tunnel experiments to physically simulate the gust-front flow of an impinging downdraft and its effects on a tall building model

Teaching Assistant — *September 2017 - May 2018*

- Provided assistance for Steel Design courses. Graded homework and held office hours for students

GCP Applied Technologies — Cambridge, MA
Research Intern — *June 2016 - August 2016*

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

University of Massachusetts Lowell — Lowell, MA
Structural Engineering 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 (UAV)

Publications and Presentations

- 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.
- Le, V.; Caracoglia, L. (2017). "A Preliminary Examination of Structural Fragility for a Vertical Cantilever Structure Subjected to Thunderstorm Downburst Loading." Paper Presented at 13th ACWE Conference, Gainesville, Florida.
- Le, V.; Yu, T.-Y.; et al. (2016)."Sizing and Ranging Criteria for SAR Images of Steel and Wood Specimens." Paper presented at 2016 SPIE Smart Structures and Nondestructive Evaluation Conference, Las Vegas, Nevada.
- Le, V.; Yu, T.-Y., (2015). "Mass and Stiffness Estimation using Mobile Devices for Structural Health Monitoring." Paper presented at 2015 SPIE Smart Structures and Nondestructive Evaluation Conference, San Diego, California.

Software Skills

- **Proficient/Working Knowledge**: MATLAB, Microsoft Office, Python, AutoCAD
- **Basic Knowledge**: C++, SQL, LabView

Awards and Honors

- **Northeastern University** - College of Engineering Dean's Fellowship — *May 2016*
- **American Concrete Institute (ACI)** - Kumar Mehta Scholarship — *May 2016*
- **U.S. Department of Energy** - Integrated University Program Fellowship — *May 2015*