



#### EDUCATION

- National University of Civil Engineering, Vietnam
  - Bachelor of Science, Civil Engineering, 2005
- University of Texas at Austin
  - Master of Science, Civil Engineering, 2009
- University of Wisconsin-Madison
  - Doctor of Philosophy, Civil Engineering, 2019

#### PRACTICE AREAS

- Construction Materials
- Bridges and Civil Infrastructure
- Repair and Rehabilitation
- Nondestructive Evaluation

#### REGISTRATIONS

- Professional Engineer in WI

#### PROFESSIONAL AFFILIATIONS

- American Concrete Institute

#### CONTACT

lpham@wje.com  
847.272.7400  
www.wje.com

#### EXPERIENCE

Since joining WJE in 2018, Le Pham has contributed to a variety of projects, including condition assessment of bridges and structures, repair design of concrete and steel structures, development and evaluation of concrete materials, and nondestructive evaluation. Dr. Pham has published articles in peer-reviewed journals on freeze-thaw durability of concrete and application of machine learning for predicting concrete properties.

Prior to joining WJE, Dr. Pham conducted research at the University of Wisconsin-Madison focused on freeze-thaw durability of concrete materials for transportation applications. He also worked as an independent bridge engineering consultant while a lecturer in bridge design at the National University of Civil Engineering in Ha Noi, Vietnam.

#### REPRESENTATIVE PROJECTS

##### Construction Materials

- Iowa Department of Transportation: Performance evaluation of polymer concrete bridge deck overlays
- Iowa Department of Transportation: Evaluation of concrete pavement repair materials and construction practices
- Autoclaved Aerated Concrete: Development and laboratory testing of autoclaved aerated concrete for masonry construction applications
- Wisconsin Department of Transportation: Evaluation of air entraining admixtures used in concrete pavement \*
- Wisconsin Department of Transportation: Evaluation of durability, strength, and shrinkage of materials for rapid repair of concrete pavement \*
- Wisconsin Department of Transportation: Evaluation of freeze-thaw durability and rapid chloride penetration of concrete materials with low cement contents \*
- Fiber Reinforced Polymer: Development of quality control tests for fiber-reinforced polymer anchors for concrete structure rehabilitation \*

##### Bridges and Civil Infrastructure

- Missouri Department of Transportation: Condition assessment of concrete bridge deck and steel arch structures
- Mississippi Department of Transportation: Condition assessment and repair solution development for multiple concrete bridges
- Electric Generating Station Natural Draft Cooling Towers - Mid-Atlantic U.S.: Condition assessment of reinforced concrete cooling tower structure
- Ministry of Transport of Vietnam: Condition assessment and load testing of multiple concrete bridges \*
- Ministry of Transport of Vietnam: Peer-reviewed designs of prestressed concrete and steel bridges \*

##### Repair and Rehabilitation

- Illinois Department of Transportation: Repair design of bridge expansion joints
- Post-Tensioned Long-Span Steel Trusses - New York, NY: Repair design to address corrosion of unique bridge strand post-tensioning system

##### Nondestructive Evaluation

- Lake Forest, IL: Condition assessment of concrete bridge decks using ground penetrating radar, half-cell potential, and chloride profile testing
- Concrete Floor Evaluation - Chicago, IL: Pull-off testing and evaluation of failed flooring materials
- Nondestructive Testing of Concrete Slab - Chicago, IL: Ground penetrating radar testing to characterize embedded steel reinforcing

*\*Indicates with previous firms*