

Dai-Nhan Le, M.Eng.

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Education

- 2024 – 2026 📖 **M.Eng. Structural Engineering, Chulalongkorn University** in Bangkok, Thailand.
GPA: 3.75/4.00
Thesis title: *Advanced Deep Learning Approaches For Predicting The Structural Response Of Unstiffened Steel Plate Girders Under Patch Loading.*
- 2018 – 2023 📖 **B.Sc. Civil Engineering, Hanoi University of Civil Engineering** in Hanoi, Vietnam.
GPA: 3.34/4.00
Thesis title: *Design structure and construction method of the multi-storey building: Dreamland Plaza.*

Research Publications

Journal Articles







- 1 **D.-N. Le**, Q.-V. Vu, T.-H. Pham, V.-T. Huynh, and S. Tangaramvong, “CurveSPG: An efficient framework for generating structural curves of the unstiffened steel plate girder under patch loading based on modified denoise diffusion model,” *Thin-Walled Structures*, vol. 216, p. 113 739, 2025, ISSN: 0263-8231. 🔗 DOI: <https://doi.org/10.1016/j.tws.2025.113739>
- 2 **D.-N. Le**, T.-H. Pham, T.-D. Pham, Z. Kong, G. Papazafeiropoulos, and Q.-V. Vu, “An efficient long short-term memory-based model for prediction of the load-displacement curve of concrete-filled double-skin steel tubular columns,” *Construction and Building Materials*, vol. 449, p. 138 122, 2024, ISSN: 0950-0618. 🔗 DOI: <https://doi.org/10.1016/j.conbuildmat.2024.138122>
- 3 **D.-N. Le**, T.-H. Pham, G. Papazafeiropoulos, Z. Kong, V.-L. Tran, and Q.-V. Vu, “Hybrid machine learning with bayesian optimization methods for prediction of patch load resistance of unstiffened plate girders,” *Probabilistic Engineering Mechanics*, vol. 76, p. 103 624, 2024, ISSN: 0266-8920. 🔗 DOI: <https://doi.org/10.1016/j.probengmech.2024.103624>
- 4 Q.-V. Vu, **D.-N. Le**, T.-D. Pham, W. Gao, and S. Tangaramvong, “An efficient procedure for prediction of the load-displacement curve of CFDST columns,” *Journal of Constructional Steel Research*, vol. 224, p. 109 113, 2025, ISSN: 0143-974X. 🔗 DOI: <https://doi.org/10.1016/j.jcsr.2024.109113>
- 5 Z. Kong, **D.-N. Le**, T.-H. Pham, K. Poologanathan, G. Papazafeiropoulos, and Q.-V. Vu, “Hybrid machine learning with optimization algorithm and resampling methods for patch load resistance prediction of unstiffened and stiffened plate girders,” *Expert Systems with Applications*, vol. 249, p. 123 806, 2024, ISSN: 0957-4174. 🔗 DOI: <https://doi.org/10.1016/j.eswa.2024.123806>
- 6 Q. Vu, V. Pham, **D. Le**, Z. Kong, G. Papazafeiropoulos, and V. Pham, “Hybrid machine learning with HHO method for estimating ultimate shear strength of both rectangular and circular rc columns,” *English, Steel and Composite Structures*, vol. 52, no. 2, pp. 145–163, Jul. 2024. 🔗 DOI: [10.12989/scs.2024.52.2.145](https://doi.org/10.12989/scs.2024.52.2.145)

- 7 Q.-V. Vu, **D.-N. Le**, T.-H. Pham, W. Gao, and S. Tangaramvong, “Hybrid machine learning with moth-flame optimization methods for strength prediction of cfdst columns under compression,” *Steel and Composite Structures*, vol. 51, no. 6, p. 679, 2024.  DOI: 10.12989/scs.2024.51.6.679
- 8 D.-K. Thai, **D.-N. Le**, Q. H. Doan, T.-H. Pham, and D.-N. Nguyen, “A hybrid model for classifying the impact damage modes of fiber reinforced concrete panels based on xgboost and horse herd optimization algorithm,” *Structures*, vol. 60, p. 105 872, 2024.  DOI: <https://doi.org/10.1016/j.istruc.2024.105872>
- 9 D.-K. Thai, **D.-N. Le**, Q. Hoan Doan, T.-H. Pham, and D.-N. Nguyen, “Classification models for impact damage of fiber reinforced concrete panels using tree-based learning algorithms,” *Structures*, vol. 53, pp. 119–131, 2023.  DOI: <https://doi.org/10.1016/j.istruc.2023.04.062>

Conference Proceedings





- 1 **D.-N. Le**, Q.-V. Vu, and S. Tangaramvong, “An efficient deep learning approach for predicting the ultimate load and maximum lateral web deformation of unstiffened steel plate girders under patch loading,” in *Proceeding of The 30th National Convention on Civil Engineering*, vol. 30, 2025.

Skills

Languages	 Vietnamese and English ( IELTS 6.5 overall)
Coding	 Python, MATLAB, VBA, \LaTeX , ...
Structural analysis	 ABAQUS, Etabs, Robot Structural Analysis, Adapt Builder, ...
Shop drawing	 Revit, Tekla
Misc.	 Academic research, Deploy Machine Learning models, Willing to work overtime with high pressure, work independently and in a team.

Miscellaneous Experience

Awards and Achievements

2024-2026	 ASEAN/ NON-ASEAN scholarship program for master degree , Chulalongkorn University, Thailand.
2023	 The National Student Research Contest - Third prize , Ministry of Education and Training, Vietnam
2022	 The Undergraduate Student Research Contest - First prize , Hanoi University of Civil Engineering, Vietnam
2018-2023	 The scholarship for students with excellent academic performance , Hanoi University of Civil Engineering, Vietnam

References

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