C.V. - Trung Q. Do, Ph. D, P.E.
Pronouns: he/him/his
Assistant Professor, Department of Civil, Coastal and Environmental Engineering,
University of South Alabama, Mobile, AL, 36688
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Education

Ph.D. Civil engineering, specializing in Structural Engineering,
Colorado State University, Fort Collins, CO (8/2012-8/2016)
Dissertation title: Fragility Approach for Performance-Based Design in Fluid-Structure Interaction Problems. Part I: Wind and Wind Turbines; Part II: Waves and Elevated Coastal Structures.

M.S. Civil engineering, specializing in Bridge and Tunnel Engineering,
National University of Civil Engineering, Hanoi, Vietnam (8/2006-7/2008)
Thesis title: Effectiveness of tuned liquid column dampers for vibration control of towers. (Graduated with Valedictory Honors)

B.Eng. Civil engineering, specializing in Bridge and Road Engineering,
Danang University of Science and Technology- The University of Danang, Vietnam (8/2000-6/2005).
Thesis title: Application of Concrete-Filled Tubular Steel (CFT) for the Design of Arch Bridge in Danang City, Vietnam (Graduated with Valedictory Honors)

Professional Registration

Multi-state P.E. license (Alabama. Louisiana, Texas)

Appointments

1/2024-present: Assistant Professor, Department of Civil, Coastal, and Environmental Engineering, University of South Alabama, Mobile, AL, USA

8/2019-12/2023: Visiting Assistant Professor, Department of Civil Engineering, University of Louisiana at Lafayette, LA, USA,

Research Associate, Department of Civil & Environmental Engineering & Environmental Engineering, Colorado State University, Fort Collins, CO, USA

8/2016-7/2019: Postdoctoral Fellow, Department of Civil & Environmental Engineering & Environmental Engineering, Colorado State University, Fort Collins, CO, USA

8/2012-7/2016: Graduate Research Assistant, Department of Civil & Environmental Engineering & Environmental Engineering, Colorado State University, Fort Collins, CO, USA

8/2011-7/2012: Graduate Research Assistant, Department of Civil & Environmental Engineering & Environmental Engineering, University of Alabama, Tuscaloosa, AL, USA

8/2008-7/2011: Lecturer, Department of Bridge and Road Engineering, Danang University of Science and Technology - The University of Danang, Danang, Vietnam.

10/2005-7/2008: Teaching Assistant, Department of Bridge and Road Engineering, Danang University of Science and Technology - The University of Danang, Danang, Vietnam.

Published Journal Papers

J15. van de Lindt, J. W., Wang, W. (Lisa), Johnston, B., Crawford, P. S., Yan, G., Dao, **T., Do**, T., Skakel, K., Harati, M., Nguyen, T., Robinson, C., & Croope, S. (2025), "Social Susceptibility Driven Longitudinal Tornado Reconnaissance Methodology: 2021 Midwest Quad-State Tornado Outbreak". *ASCE OPEN: Multidisciplinary Journal of Civil Engineering, Vol. 3, No. 1*

J14. Wanting "Lisa" Wang, John W Van De Lindt, Blythe Johnston, P Shane Crawford, Guirong Yan, Thang Dao, **Trung Do**, Katie Skakel, Mojtaba Harati, Tu Nguyen, Robinson Umeike, Silvana Croope, Andre R. Barbosa, (2024), "Application of multidisciplinary community resilience modeling to reduce disaster risk: building back better", *Journal of Performance of Constructed Facilities, ASCE, Volume 8, Issue 3*

J13. David B Roueche, Guangzhao Chen, Mariantonieta Gutierrez Soto, Sabarethinam Kameshwar, Amir Safiey, **Trung Do**, Franklin T Lombardo, Jordan O Nakayama, Brandon M Rittelmeyer, Alejandro Palacio-Betancur, Garrett Demaree, (2024). *"Performance of Hurricane-resistant housing during the 2022 Arabi, Louisiana, Tornado,"* Journal of Structural Engineering 150 (5), 04024029

J12. Wanting "Lisa" Wang, John W Van De Lindt, Blythe Johnston, P Shane Crawford, Guirong Yan, Thang Dao, **Trung Do**, Katie Skakel, Mojtaba Harati, Tu Nguyen, Robinson Umeike, Silvana Croope, Andre R. Barbosa (2024), "*Application of Multidisciplinary Community Resilience Modeling to Reduce Disaster Risk: Building Back Better"*, Journal of Performance of Constructed Facilities 38 (3), 04024012

J11. Emad H Habib, Brian Miles, Liz Skilton, Mohamed ElSaadani, Anna C Osland, Emma Willis, Robert Miller, **Trung Quang Do** and Stephen R Barnes (2023), *"Anchoring Tools to Communities: Insights into Perceptions of Flood Informational Tools from a Flood-prone Community in South Louisiana, USA"*, Frontier in Water, Vol.05, 2023

J10. Liz Skilton; Anna C. Osland; Emma Willis; Emad H. Habib; Stephen R. Barnes; Mohamed ElSaadani; Brian Miles; and **Trung Quang Do**, (2022), "We don't want your water: Broadening community understandings of and engagement in flood risk and mitigation", *Frontier in Water, Vol.04.*

J9. P. Shane Crawford; Judith Mitrani-Reiser; Elaina J. Sutley; **Trung Q. Do**; Tori Tomiczek; Omar M. Nofal; Jonathan M. Weigand; Maria Watson; John W. van de Lindt; Andrew J. Graettinger (2022), "Measurement Approach to Develop Flood-Based Damage Fragilities for Residential Buildings Following Repeat Inundation Events", *ASCE-ASME Journal of Risk and Uncertainty in Engineering System, Part A: Civil Engineering,* vol. 8, issue 2.

J8. Omar M. Nofal, John W. van de Lindt, **Trung Q. Do**, Sara Hamideh, Guirong Yan, Daniel T Cox, Casey Dietrich (2021), "Methodology for Regional Multihazard Hurricane Damage and Risk Assessment", *Journal of Structural Engineering*, ASCE, 147(11)

J7. Nofal, O., van de Lindt, J., **Do, T.** (2020) "Multi-variate and Single-Variable Flood Fragility and Loss Approaches for Wood Frame Buildings", *Reliability Engineering and System Safety* 202 (2020)

106971, ELSEVIER

J6. **Do, T. Q.**, van de Lindt, J. W., and Cox, D. T. (2019). "Hurricane Surge-Wave Building Fragility Methodology for Use in Loss, Damage, and Resilience Analysis", *Journal of Structural Engineering*, ASCE, 146-1

J5. Masoomi, H, van de Lindt, J., Mohammad R. Ameri, M., **Do, T.**, and Webb, B. (2018). "Combined Wind-Wave-Surge Hurricane-Induced Damage Prediction for Buildings", *Journal of Structure engineering*, ASCE, 145-1.

J4. Park, H., **Do, T. Q.**, Tomiczek, T. J., Cox, D. T., and van de Lindt, J. W. (2018). "Numerical Modeling of Non-breaking, Impulsive Breaking, and Broken Wave Interaction with Elevated Coastal Structures: Laboratory Validation and Inter-Model Comparisons.", *Ocean Engineering*, ELSEVIER, 158, 78-98.

J3. **Do, T. Q.,** van de Lindt, J. W., and Cox, D. T. (2016). "Performance-Based Design Methodology for Inundated Elevated Coastal Structures Subjected to Wave Load." *Engineering Structures*, ELSEVIER, 117, 250–262.

J2. **Do, T. Q.,** Van de Lindt, J. W., and Mahmoud, H. (2015). "Fatigue Life Fragilities and Performance-Based Design of Wind Turbine Tower Base Connections." *Journal of Structural Engineering*, ASCE, 141(7), 1–13.

J1. **Do, T. Q.,** Mahmoud, H., and van de Lindt, J. W. (2014). "Fatigue Life of Wind Turbine Tower Bases throughout Colorado." *Journal of Performance of Constructed Facilities*, ASCE, DOI: 10.1061/(ASCE)CF.1943-5509.0000612, 04014109.

In Progress and Under Review Journal Papers

J18. Robinson Umeike, Cuong Pham, Ryan Hausen, Thang Dao, Shane Crawford, Tanya Brown-Giammanco, Gerard Lemson, John van de Lindt, Blythe Johnston, Arik Mitschang, **Trung Do**, (2026), "TornadoNet: Real-Time Building Damage Detection with Ordinal Supervision, *Engineering Applications of Artificial Intelligence"* ***(Under Reviewed)***

J17. Robinson Umeike, Thang Dao, Shane Crawford, John van de Lindt, Blythe Johnston, **Trung Do**, Ajibola Mofikoya, Sarbesh Banjara, Cuong Pham, (2026) Architectural Insights for Post-Tornado Damage Recognition, Journal: *International Journal of Engineering Science* ***(Under Reviewed)***

J16. Jaimlyn Sypniewski; Mehrshad Amini; Daniel T. Cox; Omar Nofal; John van de Lindt; **Trung Do** (2026), "HAZUS-MH Validation Study for Building Damage at Mexico Beach, Florida, from Hurricane Michael in 2018", *ASCE's ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering* ***(Accepted)***

Reports and data set

R7. Trung Do, Lisa Wang, Mehrshad Amini, Ahmed U Abdelhady, Susu Xu, Riccardo Negri, Chenguang Wang, Hongtao Dang, Amalesh Jana, Liz Carter, Mohammad S Alam, Tracy Kijewski-Correa, David O Prevatt, David Roueche, Keegan Wolohan, Hurricance Milton - PRELIMINARY VIRTUAL RECONNAISSANCE REPORT (PVRR), *October 9, 2024 Released: February 24, 2025 NHERI DesignSafe Project ID: PRJ5689*

R6. Bret Webb, David O Prevatt, Tracy Kijewski-Correa, Mehrshad Amini, Rubina Ramponi, ARUP Tori Tomiczek, Stephanie Pilkington, Huy Pham, Dimitrios Kalliontzis, Hongtao Dang, Jose Capa Salinas, Susu Xu, **Trung Do**, Mariantonieta Gutierrez Soto, Amy Diekmann, Amalesh Jana, Ting Lin, INPT Tarik Lahna, Toulouse Saswati Ray, Mohammad S Alam, David Roueche, Keegan Wolohan, "Hurricane Helene- PRELIMINARY VIRTUAL RECONNAISSANCE REPORT (PVRR)", *September 29, 2024 Released: December 16, 2024 NHERI DesignSafe Project ID: PRJ5669*

R5. Roueche, David; Bagheri Jeddi, Ashkan; **Do, Trung**, Prevatt, David, Alam, Mohammad "21-22 March 2022 Tornado-Event Briefing" *https://www.designsafe-ci.org/data/browser/public/designsafe.storage.published/PRJ-3443, DOI: 10.17603/ds2-9xvm-6667*

R4. Kijewski-Correa, T., Alhawamdeh, B., Arteta, C., Djima, W., **Do, T.**, García Mejía, S., Gartner, M., Gunay, S., Hassan, W., Javadinasab Hormozabad, S., Marinković, M., Martin, A., Merino-Peña, Y., Pajaro, C., Romão, X., Burlotos, C., M. Mosalam, K., Robertson, I., Rogers, J., Taflanidis, A. (2021), "M7.2 Nippes, Haiti Preliminary Virtual Reconnaissance Report (PVRR)", *DesignSafe-CI. https://doi.org/10.17603/h7vg-5691.*

R3. Roueche, D. Kameshwar, S. Marshall, J. Bandaru, S. **Do, T.** Kijewski-Correa, T. Cortes, M. Crawford, S. Javadinasab Hormozabad, S. Strader, S. Prevatt, D. (2020) "Event Briefing in StEER - Hurricane Delta". *DesignSafe-CI. https://doi.org/10.17603/ds2-y2gc-xj10.*

R2. Sutley, E., S. Crawford, A. Graettinger, **T. Do**, J. Mitrani-Reiser, O. Nofal, T. Tomiczek, J. van de Lindt, M. Watson, J. Weigand, (2020) "Wave 3a", in A Longitudinal Community Resilience Focused Technical Investigation of the Lumberton, North Carolina Flood of 2016. DesignSafe-CI. https://doi.org/10.17603/ds2-b3r1-t106 v1

R1. van de Lindt, John; **Do, Trung**; Nofal, Omar (2020), "Data for: Multi-variate and Single-Variable Flood Fragility and Loss Approaches for Wood Frame Buildings", *Mendeley Data, V1, doi: 10.17632/6gk2f74vbd.1*

Professional Organization Membership

American society of Civil Engineering (ASCE), Committee member of:

- Design of Wood Structures
- Civil Infrastructure and Lifeline Systems
- Disaster Response and Recovery
- Multi-Hazard Mitigation
- Post Disaster Assessments

Research Projects

7. Center for Risk-Based Community Resilience Planning-INCORE, Sub-awarded to the University of South Alabama, (01/2024-07/2025), Funded by the National Institute of Standards and Technology (NIST).
Role: Co-PI with Dr. Brett Webb

6. Experimental and Numerical Study to Improve Damage and Loss Estimation due to Overland Wave and Surge Hazards on Near-Coast Structures, 01/01/16 – 06/30/23, Funded by the Department of Homeland Security.
Role as primary researcher (as a Ph.D. students, post-Doctoral researcher, and research affiliate)

5. **Development and Demonstration of wave-surge depth-damage functions for damage and loss prediction along the Gulf Coast** (6/01/2020-8/31/2020): $27,253.00

Role as Co-PI: This is the subaward from Colorado State University to University of Louisiana at Lafayette, funded by the DHS

4. **Fundamental Mechanics and Conditional Probabilities for Prediction of Hurricane Surge and Wave Load on Elevated Coastal Structures**- NSF funded project (6/13 – 5/31/16)

Role as a researcher (Ph.D. Student):

3. **Enhancing Community Engagement in Flood Mitigation Using Integrated Hydrodynamic Modelling and Multi-Scale Socio-Economic Risk Assessment** - NSF Planning Grant in preparation of a future Integrative Research Proposal (10/2021-9/2022)

Role: senior researcher

2. **East Coast community test bed for disaster-recovery research.** Supported by the National Institute of Standards and Technology (NIST) (2018-2021) for Center of Community Resilience and Planning.

Role: Senior Researcher

1. **Life and Performance-Based Design of Wind Turbine Tower,** Funded by the Vietnam International Education Development-Ministry of Education (8/2011-7/2013 for $57,400) and the George T. Abell Professorship funds at Colorado State University.

Role: Principal Investigator (PI) and Primary Researcher