

Louise Bichara

Lab Instructor

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Biography

Born on May 9, 1990. Graduated with a BE in civil engineering from NDU in 2013. Graduated with an ME in civil engineering from AUB in 2018. Worked as a research assistant at AUB from 2017 to 2020 with focus on the non-destructive monitoring of the structural degradation of existing structures. Worked as a part-time laboratory instructor at NDU during the fall of 2022. Currently a full-time laboratory instructor at NDU. Interested in research.

Peer-reviewed Journals

- Bichara, L., Saad, G., & Slika, W. (2019). Probabilistic identification of the effects of corrosion propagation on reinforced concrete structures via deflection and crack width measurements. *Materials and Structures*, 52(5), 1-17.

Peer-reviewed Conference Proceedings

- Salem, T., Bichara, L., Bou Shroush, J., & Wehbi, W. (2023). Phase Change Material in Concrete Pavement: Impact on the Mechanical Properties for Cold Regions. 5th International Conference on Advances in Computational Tools for Engineering Applications, 4-6 july 2023, Beirut, Lebanon.
- Salem, T., Bichara, L., Bou Shroush, J., & Wehbi, W. (2023). Mitigation of UHI Effect with the Incorporation of PCM in Concrete Pavement-Case Study: City of Rotterdam. 5th International Conference on Advances in Computational Tools for Engineering Applications, 4-6 july 2023, Beirut, Lebanon.
- Bichara, L., Saad, G. (2018). A Probabilistic Framework for Predicting Corrosion Propagation Rate in Reinforced Concrete Structures. 6th European Conference on Computational Mechanics (ECCM 6), 7th European conference on computational fluid dynamics ECFD 7), 11-15 june 2018, Glasgow, UK.
- Bichara, L., Saad, G. (2018). A Probabilistic Framework for Predicting Corrosion Propagation Rate in Reinforced Concrete Structures. Abstract Presentation, Engineering Mechanics Institute Conference 18-21 june 2019.

CV

<https://www.ndu.edu.lb/Library/Assets/Files/Documents/NDUFacultyProfiles/NDUFacultyCVs/Louise%20M%20Bichara.pdf>