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| ▼ **Education**   * Ph.D. in Engineering Mechanics, Virginia Tech, 1992 * M.S. in Engineering Mechanics, Virginia Tech, 1987 * Diploma of Professional Civil Engineer, Universidad Nacional de Córdoba, Argentina, 1981 * Associate’s Degree in Accounting, Corazón de María, Córdoba, Argentina, 1975 |
| ▼ **Teaching Expertise/Courses**  Dr. Maldonado’s teaching expertise include Structural Engineering, Matrix Structural Analysis & Finite Elements, Reinforced Concrete Design, Plane Surveying, and Remote Sensing (Terrestrial LiDAR and Close-Range Photogrammetry. |
| ▼ **Research Expertise**  Dr. Maldonado’s research interests include Structural Analysis and Design, Earthquake/Wind Engineering, Civil Engineering Materials (reinforced concrete and steel), Remote Sensing (terrestrial LiDAR, close-range Photogrammetry) and Engineering Education. |
| ▼ **Sample Publications**   * G. O. Maldonado, M. Maghiar, J. T. Van Stan, M. Peart and D. C. Mesta, Discrepancies in Measurements of a Complex Street Intersection – Laser Scanner vs Accurate Total Station, Proceedings of the Associated Schools of Construction 54th Annual International Conference, hosted by University of Minnesota, Minneapolis, MN, April 18-21, 2018. * M. Maghiar, G. O. Maldonado, D. C. Mesta, M. Peart and C. Martin, Measurement Comparison of City Roadway Intersection Models Obtained via Laser-Scanning and Photogrammetry, Proc. of the Associated Schools of Construction 54th Annual Intl. Conference, hosted by University of Minnesota, Minneapolis, MN, April 18-21, 2018. * J. T. Van Stan, Z. Norman, A. Meghoo, J. Friesen, A. Hildebrandt, J-F Cote, S. J. Underwood and G. O. Maldonado, Edge-to-Stem Variability in Wet-Canopy Evaporation From an Urban Tree Row, Journal of Boundary Layer Meteorology, Springer, Volume 165, Issue 2, pp 295-310. ISSN: 0006-8314 (Print), 1573-1472 (Online). Nov. 2017. * M. Maghiar, G. O. Maldonado, M. Jackson, An Investigation of Existing Warning Systems for Bridge Overhead Clearance Detection, 2017 New York City Bridge Conference, August 21-22, 2017, New York, NY. * G. O. Maldonado, S. R. Newsome, M. Maghiar, J. T. Clendenen and N. M. Jackson, Discrepancy Analysis Between Close-Range Photogrammetry and Terrestrial Lidar, Mecánica Computacional, Vol. XXXIV, pages 245-268, Córdoba, Argentina, November, 8-11, 2016. |
| ▼ **Grants/Funded Projects** |