Joseph Malkoun, Ph.D.

Associate Professor
O: FNAS 0.18
T: 09 218 950, Ext. 2355
E: joseph.malkoun@ndu.edu.lb

Biography

Dr. Joseph Malkoun obtained his Ph.D. from Stony Brook University (USA) in 2012. His thesis topic was in differential geometry. He taught at NDU from 2013 to 2020, left for the US for a few years, working as a Python software developer, then decided to come back to NDU in Fall 2024.

Peer-reviewed Journals

- "A new proof of Atiyah's conjecture on configurations of four points", J. Math. Phys. 64 (2023), no.5, Paper No. 053507, DOI: 10.1063/5.0151938.
- "Weights, Weyl-equivariant maps and a rank conjecture", Experimental Mathematics, Volume 31, 3 (2022), DOI: 10.1080/10586458.2020.1712272.
- P.J. Olver, "Continuous Maps from Spheres Converging to Boundaries of Convex Hulls", Forum of Mathematics, Sigma , Volume 9 , 2020 , e13.
- "Root Systems and the Atiyah-Sutcliffe conjectures", J. of Math. Phys. 60, 101702 (2019).
- "Determinants, Choices and Combinatorics", Discrete Math. 342 (2019), no. 1, 250–255.
- N. Nahlus, "Commutators and Cartan subalgebras in Lie algebras of compact semisimple Lie groups", Journal of Lie Theory, 27 (2017), no. 4, 1027–1032.
- "On the Atiyah problem on hyperbolic configurations of four points", Geometriae Dedicata, 180 (2016), 287–292.
- "Configurations of Points and the Symplectic Berry-Robbins Problem", Symmetry Integrability Geom. Methods Appl. 10, (2014).
- B. Ghalayini, "Golden proportions in higher dimensions", Fibonacci Quart., 49 (2011) (3):267-272.
- E. Huijer, S.H. Karaki, "Line segment pole functions in the mmp method applied to shielded cables", Power Tech, 2005 IEEE Russia, pages 1-6.

Peer-reviewed Conference Proceedings

- E. Huijer (AUB), "A Complex Analytic Numerical Technique for Finite Permeability Polygonal Magnets", 2023 Fifth International Conference on Advances in Computational Tools for Engineering Applications (ACTEA)