



Catherine Zoghbi

Senior Physics Lab Instructor

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Biography

Catherine Zoghbi holds a DEA (“Diplôme D’Etudes Approfondies”) in Material Physics & Electronic Components from the Lebanese University in collaboration with the University of Montpellier, as well as a “Maîtrise” in Pure Physics from the Lebanese University. She began by teaching “Travaux Dirigés” in physics to first year biology/chemistry students at the Lebanese University-Faculty of Sciences II, as well as being a part time instructor at NDU (teaching physics labs as well as physics freshman courses). She is currently in charge of managing the entire physics laboratory, she also teaches all physics lab courses as well as acting as a coordinator for these lab courses. She has a strong knowledge of the data analysis software “Pasco Scientific’s CAPSTONE” and “MS EXCEL” as well as a solid knowledge of the software “PYTHON”.

Peer-reviewed Journals

- “Calculations of Different Physical Parameters by (2D) Simulations of the Ising Model for Different Geometrical Lattices”, J.P.Atanás, C.ElZoghbi, J.Bechara and M.Ajaka, LSJ Volume 5, No 1, 2004, CNRSL.

Peer-reviewed Conference Proceedings

- “Calculations of Different Physical Parameters by (2D) Simulations of the Ising Model for Different Geometrical Lattices”, J.P.Atanás, C.ElZoghbi, J.Bechara and M.Ajaka, Poster at the Fourth Franco-Lebanese Colloquium on Material Science (“Quatrième Colloque Franco-Libanais sur la Science des Matériaux (CSM4)”), May 2004, Beirut, Lebanon.

Exhibitions, Competitions and Creative Work

- CK-12 Certified Educator since September 2022.
- Participated at the seminar + workshop: “Modern Trends in Teaching Physics: Discover the Latest and Updated Experiments” held on Friday 24 September 2010 at St Joseph University, Faculty of Science, Mar Roukoz by Al Diyar International and Phywe Systeme GmbH & Co.
- Completed the Following Online Training Sessions: “Hands-On Activities with Modular Circuits” on April 6, 2022, “Engaging Mechanics Demos Using the Smart Cart Demonstration Kit” on November 9, 2022, “Teaching Rotation with the Meter Stick Torque Set” on November 16, 2022, and “Getting Started with Pasco’s and Materials Testing System” on December 14, 2022 organized by Pasco Scientific Professional Development www.pasco.com