



The University of Texas at Tyler  
College of Engineering and Computer Science  
Faculty Biographical Sketches

**NELSON FUMO, PH.D.**

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***CURRENT POSITION:***

Assistant Professor of Mechanical Engineering

***BIOGRAPHICAL SKETCH***

Dr. Fumo has more than 25 years of experience in academia. He is originally from Venezuela where he was an independent consulting engineer for five years, and a professor of Mechanical Engineering for 17 years. He earned his Ph.D. in Mechanical Engineering at Mississippi State University in 2008. He also earned a Master's Degree in Mechanical Engineering from the University of Florida, and a MBA from the Universidad del Táchira in Venezuela. Prior to coming to UT Tyler in August 2011 as an Assistant Professor, he was an Assistant Research Professor at Mississippi State University. Dr. Fumo has published more than 25 research papers in international journals, and has presented more than 30 papers in international conferences. He has also co-authored one book and three book chapters in the areas of energy management, combined cooling heating, and power systems. At UT Tyler he is one of the most active researchers working with the TxAIRE Research and Demonstration Houses, one of the Engineering Research Centers at UT Tyler.

Dr. Fumo is an active member of the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE), he is the Student Activities ASHRAE Chair of the East Texas Chapter, the Academic Advisor of the ASHRAE Student Branch/Organization at UT Tyler, and a corresponding member of the Technical Committee 7.6 – Building Energy Performance. He is also a member of the American Society of Mechanical Engineers (ASME). He is an active reviewer for many international journals in the area of energy and a member of the Editorial Board of the Energy Reports Journal published by Elsevier.

***RESEARCH INTERESTS***

General area of energy efficiency, energy conservation in buildings with focus on whole building energy modeling, thermal energy systems design and optimization, and HVAC applications. He is also involved with renewable energy applications with emphasis on solar energy and ground source heat pumps, miniature heat exchangers design, and analysis for application to Organic Rankine Cycles.

***CONTACT INFORMATION***

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