

EDUCATION	<p>Department of Aerospace Engineering and Applied Mechanics, Tongji University <i>D.Eng. in Mechanics</i> • Advisor: Prof. Ying Zhao • Research area: Li-ion Batteries 2024 - 2028 (<i>expected</i>)</p>	<p>Department of Aerospace Engineering, Nanjing University of Aeronautics and Astronautics <i>M.Eng. in Mechanics</i> • Advisor: Prof. Huiyu Sun • Research area: Shape memory polymer composites 2021 - 2024</p>	<p>Department of Mechanical Engineering, The National Technological Institute of Mexico <i>B.Eng. in Mechanical Engineering</i> • Advisor: Prof. Pedro J. Herrera-Franco 2014 - 2019</p>
	<p>PUBLICATIONS</p> <ol style="list-style-type: none"> Hao Duan, Jianping Gu, Huiyu Sun, Hao Zeng, and Jesus A. Rodriguez-Morales. “A thermodynamic constitutive model based on uncoupled physical mechanisms for polymer-based shape memory composites and its application in 4D printing”. <i>Applied Mathematical Modelling</i>, vol. 141, p. 115926, May 2025. 10.1016/j.apm.2025.115926 Jesus A. Rodriguez-Morales, Chentong Gao, and Huiyu Sun. “Tensile strength prediction of fiber-reinforced polymer composites through layered interphase and chemical bonding: A semi-empirical micromechanical model”. <i>European Journal of Mechanics A/Solids</i>, vol. 111, p. 105533, May-June 2025. 10.1016/j.euromechsol.2024.105533 Hao Duan, Huiyu Sun, Jesus A. Rodriguez-Morales, and Xinyuan Bai. “Insight into the synergistic-relaxation effects in amorphous polymer: Thermodynamic modeling, multi-physics simulation and application in 4D printing”. <i>Polymer</i>, vol. 315, p. 127786, Dec. 2024. 10.1016/j.polymer.2024.127786 Jesus A. Rodriguez-Morales, Hao Duan, Jianping Gu, Hao Zeng, Huiyu Sun. “Insight into constitutive theories of 4D printed polymer materials: A review”. <i>Smart Materials and Structures</i>, vol. 33, no. 7, p. 073005, June 2024. 10.1088/1361-665X/ad523c 		
	<p>AWARDS AND HONORS</p> <ul style="list-style-type: none"> Shanghai Government Scholarship (A), Tongji University 2024.09 Best Presentation, “Zhi-Hong” International Summer School at SJTU 2022.06 Chinese Government Scholarship, Ministry of Science and Technology 2021.09 FUNED-Santander Fellowship, FUNED 2019.05 		
SKILLS	<p>Languages: Spanish, English. Programming: Python, MATLAB.</p>		
ACADEMIC SERVICES	<p>Reviewer for: <i>Materials Research Express</i>, <i>Engineering Research Express</i>, <i>Physica Scripta</i>.</p>		

ORGANIZATIONS *American Physical Society (APS) - Computational Physics Division*
 American Society of Mechanical Engineers (AMSE) - Applied Mechanics Division