

EDUCATION	Department of Aerospace Engineering and Applied Mechanics, Tongji University <i>D.Eng. in Mechanics</i> • Advisor: Prof. Ying Zhao • Research area: Li-on Batteries 2024 - 2028 (<i>expected</i>)	Shanghai, China
	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	Nanjing, China
	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	Yucatan, Mexico
PUBLICATIONS	1. 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> (Accepted)	
	2. 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	
	3. 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	
	4. 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	
AWARDS AND HONORS	• 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	Languages: Spanish, English.	
	Programming: Python, MATLAB.	
ACADEMIC SERVICES	Reviewer for: <i>Materials Research Express</i> ,	
	<i>Engineering Research Express</i> ,	
	<i>Physica Scripta</i> .	