

EDUCATION	<p>Department of Aerospace Engineering and Applied Mechanics, Tongji University Shanghai, China 2024 - 2028 (<i>expected</i>)</p> <ul style="list-style-type: none"> • Advisor: Prof. Ying Zhao • Research area: Computational Physics
	<p>Department of Aerospace Engineering, Nanjing University of Aeronautics and Astronautics Nanjing, China 2021 - 2024</p> <ul style="list-style-type: none"> • Advisor: Prof. Huiyu Sun • Research area: Shape memory polymer composites
	<p>Department of Mechanical Engineering, National Technological Institute of Mexico Yucatan, Mexico 2014 - 2019</p> <ul style="list-style-type: none"> • Advisor: Prof. Pedro J. Herrera-Franco
JOURNAL PUBLICATIONS	<ol style="list-style-type: none"> 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>, vol. 141, p. 115926, May 2025. 10.1016/j.apm.2025.115926 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
CONFERENCE PROCEEDINGS	<ol style="list-style-type: none"> 1. Viviana Lorena Robalino Espinoza, Jesus A. Rodriguez-Morales, and Xuefeng Yin. “Modeling specular and dispersive multipath propagation in on-chip wireless communication channels”. <i>Proceedings of the 13th International Academic Conference for Graduates, NUAA</i>, p. 115-121, Nov. 2025. 2. Jesus A. Rodriguez-Morales, Chentong Gao, Jinlong Zhou, Viviana Lorena Robalino Espinoza. “El rol de algoritmos de aprendizaje automático en la inferencia de relaciones constitutivas y parámetros de impresión de materiales poliméricos impresos en 4D: Una descripción general”. <i>Proceedings of the National Congress of Space Activities (CONACES)</i>, p. 45-55, Nov. 2024. (In Spanish)
AWARDS AND HONORS	<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	Languages: Spanish, English. Programming: Python, MATLAB.
ACADEMIC SERVICES	Reviewer for: <i>Materials Research Express,</i> <i>Engineering Research Express,</i> <i>Physica Scripta.</i>
ORGANIZATIONS	<i>Chinese Society of Theoretical and Applied Mechanics (CSTAM)</i> <i>American Physical Society (APS) - Computational Physics Division</i> <i>American Society of Mechanical Engineers (ASME) - Applied Mechanics Division</i>