




CHONGRAN ZHAO

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Education



Southern University of Science and Technology
Bachelor of Science in Theoretical and Applied Mechanics

Shenzhen, Guangdong
09/2019 – 06/2023



Southern University of Science and Technology
Master of Science in Mechanics

Shenzhen, Guangdong
09/2023 – Present

Research Interests

Continuum Mechanics · Solid Mechanics · Viscoelasticity · Constitutive Modeling · Finite Element Analysis · High-Performance Computing · Soft Biological Tissues · Growth and Remodeling

Publications and Manuscripts

- [1] J. Liu*, J. Guan, **C. Zhao**, and J. Luo. A continuum and computational framework for viscoelastodynamics: III. A nonlinear theory. *Computer Methods in Applied Mechanics and Engineering* 430 (2024), 117248.
- [2] J. Liu*, **C. Zhao**, and J. Guan. Modeling finite viscoelasticity based on the Green–Naghdi kinematic assumption and generalized strains. *Journal of the Mechanics and Physics of Solids* 206 (2026), 106346.
- [3] **C. Zhao**, H. Yuan, and J. Liu*. A framework for finite-strain viscoelasticity based on rheological representations. *International Journal of Solids and Structures* 330 (2026), 113893.

Conference

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| The Chinese Congress of Theoretical and Applied Mechanics
<i>Oral Presentation</i>
<i>A finite viscoelastic constitutive theory based on Green-Naghdi decomposition: A rheological model study</i> | Changsha, China
<i>Jul. 18-21, 2025</i> |
| 18th International Conference on Computational Plasticity
<i>Oral Presentation</i>
<i>A rational framework of finite viscoelasticity: Dissipation potential and non-newtonian effects</i> | Barcelona, Spain
<i>Sep. 2-5, 2025</i> |
| Summer School on Physics-Informed Modeling, Simulation and Experiments with Emphasis on the Cardiovascular System
<i>Participant</i> | Graz, Austria
<i>Sep. 15-19, 2025</i> |

Skills

- **Technical Skills:** C++ · CMake · MPI · Matlab · Linux/Unix · Git · L^AT_EX
- **Languages:** Chinese · English