

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. arXiv preprint. 2025. arXiv: 2508.14518.

Conference

The Chinese Congress of Theoretical and Applied Mechanics
Oral Presentation

Changsha, China
Jul. 18-21, 2025

A finite viscoelastic constitutive theory based on Green-Naghdi decomposition: A rheological model study

18th International Conference on Computational Plasticity
Oral Presentation

Barcelona, Spain
Sep. 2-5, 2025

A rational framework of finite viscoelasticity: Dissipation potential and non-newtonian effects

Summer School on Physics-Informed Modeling, Simulation and Experiments with Emphasis on the Cardiovascular System
Participant

Graz, Austria
Sep. 15-19, 2025

Skills

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