CHONGRAN ZHAO

✉ chongranzhao@outlook.com · 0009-0005-4164-8051 · GitHub · ResearchGate
9 1017 North Engineering Building, 1088 Xueyuan Avenue, Shenzhen 518055, P.R.China

Education

Southern University of Science and Technology		Shenzhen, Guangdong
Bachelor of Science in Theoretical and Applied Mechanics		*09/2019 – 06/2023*
Southern University of Science and Technology		Shenzhen, Guangdong
Master of Science in Mechanics		*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* (2026), 113893.

Conference

The Chinese Congress of Theoretical and Applied Mechanics	Changsha, China
Oral Presentation	*Jul. 18-21, 2025*
A finite viscoelastic constitutive theory based on Green-Naghdi decomposition: A rheological model study	
18th International Conference on Computational Plasticity	Barcelona, Spain
Oral Presentation	*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	Graz, Austria
Participant	*Sep. 15-19, 2025*

Skills

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