




# CHONGRAN ZHAO

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## Education

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**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

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

## Publications and Manuscripts

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- [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

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

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- **Technical Skills:** C++ · CMake · MPI · Matlab · Linux/Unix · Git ·  $\text{\LaTeX}$
- **Languages:** Chinese · English