

## EDUCATION

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<b>Ph.D. in Solid Mechanics,</b> Supervisor: Prof. Huajian Gao	NTU, Mar 2025
<b>B.S. in Chemistry,</b>	USTC, Jun 2020
<b>B.S. in Theoretical and Applied Mechanics,</b> (NTU: Nanyang Technological University; USTC: University of Science and Technology of China)	USTC, Jun 2020

## EXPERIENCES

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<b>Research Fellow, NTU, Singapore</b>	May 2025 – present
<b>Graduate Research Assistant, NTU, Singapore</b>	Aug 2020 – Mar 2025
<b>Visiting Student, MIT, The United States</b>	Jul 2019 – Sep 2019

## HONORS & AWARDS

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- **IFET-THU-NTU Doctoral Scholarship,** 2020
- **China National Scholarship,** 2018, 2017

## RESEARCH INTERESTS

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- Rate-dependent mechanics on soft interfaces
- Fracture mechanics, contact mechanics and tribology
- Mechanics of biological systems including intervertebral disc

## SKILLS

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**Mathematics:** ODE/PDEs, Differential Geometry, Fourier Transform, Wavelet Transform  
**Programming:** MATLAB, Python, C++, Mathematica, Fortran  
**Simulations:** ABAQUS, FEBio, Deep Learning, Neural Network  
**Typesetting:** LaTeX, Microsoft Word

## PUBLICATIONS

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1. **Shubo Zhang**, Changhong Linghu, Dong Li, Michele Ciavarella\*, Huajian Gao\*, “Clarifying the role of viscoelasticity in 90-degree peeling mechanics” (Submitted)
2. **Shubo Zhang**\* and Michele Ciavarella, “Static friction coefficient depends on geometry”, 2026, *Journal of Tribology*, DOI: 10.1115/1.4070853
3. Jianyue Deng<sup>†</sup>, Changhong Linghu<sup>†,\*</sup>, **Shubo Zhang**, Zhiyu NG, Deon Low, Huajian Gao, K. Jimmy Hsia\*, Haibao Lu\*, “Peeling adhesion regime transition of elastic tapes”, 2025, *Extreme Mechanics Letters*, DOI: 10.1016/j.eml.2025.102414
4. Z. Qiao, K. Mei, Y. Wang, T. Yan, **S. Zhang**, Q. Chen, Y. Chen, C. Wang, T. Ren, S. Wu\*, Q. Zhang\*, “Ultra-sensitive magnetic nanomechanical array sensor based on graphene oxide for single bacterial cell detection”, 2025, *Nano Research*, DOI: 10.26599/NR.2025.94907290
5. Michele Ciavarella\*, **Shubo Zhang**, Huajian Gao, Gabriele Cricri, “A linear cohesive model of zero degree peeling of a viscoelastic tape from a substrate”, 2022, *Journal of Adhesion Science and Technology*, DOI: 10.1080/01694243.2022.2099785
6. Y. Liu, J. Wang, Y. Su, X. Xu, H. Liu, K. Mei, S. Lan, **S. Zhang**, X. Wu, Y. Cao\*, Q. Zhang\*, S. Wu\*, “Quantifying 3D cell-matrix interactions during mitosis and the effect of anticancer drugs on the interactions”, 2021, *Nano Research*, DOI: 10.1007/s12274-021-3357-4

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