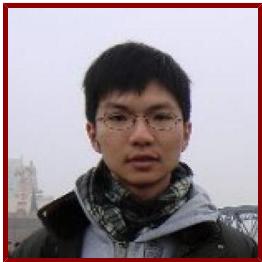


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Yifan Wang

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Bio

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Stanford University , ME-PHD (2022)
- Master of Science, Stanford University , ME-MS (2022)
- Master of Science, Stanford University , PETEN-MS (2016)
- Bachelors, Tsinghua University , Chemical Engineering (2013)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Classification for the flow defects in metallic glass materials;

Molecular Dynamics Simulation for the Nano-indentation of Al-Mg alloy;

Spherical Harmonics Approach of the spherical elasticity problem;

LAB AFFILIATIONS

- Xiaolin Zheng, Z-Energy Lab (4/1/2023)
- Leora Dresselhaus-Marais, Dresselhaus-Marais Group (10/1/2022)

Publications

PUBLICATIONS

- **Anomalous temperature dependence of elastic limit in metallic glasses.** *Nature communications*
Wang, Y., Liu, J., Jiang, J. Z., Cai, W.
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- **Strong and ductile nanoscale Ti-1Fe dual-phase alloy via deformation twinning** *SCRIPTA MATERIALIA*
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- **Microparticle traction force microscopy reveals subcellular force exertion patterns in immune cell-target interactions.** *Nature communications*
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- **Spherical harmonics method for computing the image stress due to a spherical void** *JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS*
Wang, Y., Zhang, X., Cai, W.
2019; 126: 151–67
- **Strengthening Mechanism of a Single Precipitate in a Metallic Nanocube** *NANO LETTERS*
Kiani, M. T., Wang, Y., Bertin, N., Cai, W., Gu, X.
2019; 19 (1): 255–60