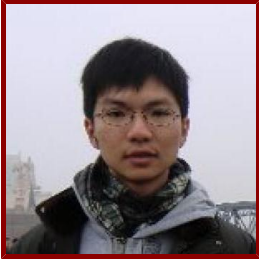



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Bio

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;

Publications

PUBLICATIONS

- **Discovery of multimechanisms of screw dislocation interaction in bcc iron from open-ended saddle point searches** *PHYSICAL REVIEW MATERIALS*
Wang, X., Wang, Y., Cai, W., Xu, H.
2022; 6 (12)
- **Phagocytic 'teeth' and myosin-II 'jaw' power target constriction during phagocytosis.** *eLife*
Vorselen, D., Barger, S. R., Wang, Y., Cai, W., Theriot, J. A., Gauthier, N. C., Krendel, M.
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- **Stress effects on the energy barrier and mechanisms of cross-slip in FCC nickel** *JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS*
Kuykendall, W. P., Wang, Y., Cai, W.
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- **Microparticle traction force microscopy reveals subcellular force exertion patterns in immune cell-target interactions.** *Nature communications*
Vorselen, D. n., Wang, Y. n., de Jesus, M. M., Shah, P. K., Footer, M. J., Huse, M. n., Cai, W. n., Theriot, J. A.
2020; 11 (1): 20
- **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