SHUOFENG ZHANG

EDUCATION

University of Oxford
DPhil in Theoretical Physics
Theoretical deep learning

Tsinghua University
Master of Science
Computational physics / material science

Renmin University of China
Bachelor of Science
Department of physics

PUBLICATION

Zhang, Shuofeng, and Ard Louis. "Position: Many generalization measures for deep learning are fragile." arXiv preprint arXiv:2510.18934 (2025).

Zhang, Shuofeng, and Ard Louis. "Closed-form ℓ_r norm scaling with data for overparameterized linear regression and diagonal linear networks under ℓ_p bias." arXiv preprint arXiv:2509.21181 (2025).

Zhang, Shuofeng, Isaac Reid, Guillermo Valle Pérez, and Ard Louis. "Why flatness does and does not correlate with generalization for deep neural networks." arXiv preprint arXiv:2103.06219 (2021).

Zhang, Shuofeng, Ben Xu, Yuanhua Lin, Cewen Nan, and Wei Liu. "First-principles study of the layered thermoelectric material TiNBr." RSC advances 9, no. 23 (2019): 12886-12894.

Zhang, Xue, Ting Liu, Shuofeng Zhang, Xin Huang, Bingqing Xu, Yuanhua Lin, Ben Xu, Liangliang Li, Ce-Wen Nan, and Yang Shen. "Synergistic coupling between Li6. 75La3Zr1. 75Ta0. 25O12 and poly (vinylidene fluoride) induces high ionic conductivity, mechanical strength, and thermal stability of solid composite electrolytes." Journal of the American Chemical Society 139, no. 39 (2017): 13779-13785.

WORKING EXPERIENCE

(Incoming) Research scientist, Machine learning - **Meta platforms Inc.**

TEACHING EXPERIENCE

Teaching Assistant, Mathematical Institute - University of Oxford
Symbolic, Numerical and Graphical Scientific Programming, with Prof. Philip Candelas

Demonstrator, Department of Physics - University of Oxford
Computing lab, with Dr. Elizabeth Gallas and Dr. Jennifer Barnes
Prelims (First Year) and Part A/B (Second year)

Senior Demonstrator, Department of Physics - University of Oxford
Computing lab, with Dr. Elizabeth Gallas and Dr. Jennifer Barnes
Prelims (First Year) and Part A/B (Second year)

PEER REVIEW SERVICE

Molecular Physics (2019)