

# BO ZHAO

bozhao@ucsd.edu  $\diamond$  b-zhao.github.io

## RESEARCH INTEREST

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Deep learning theory, optimization, spatiotemporal dynamics

## EDUCATION

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**University of California San Diego** 2021 - present

Ph.D. in Computer Science

· Advisor: Rose Yu

**Georgia Institute of Technology** 2019 - 2021

M.S. Computer Science

**University of Illinois at Urbana-Champaign** 2016 - 2019

B.S. Computer Science (Highest Honors)

B.S.L.A.S. Physics (Cum Laude and Departmental Highest Distinction)

## PUBLICATIONS

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**Bo Zhao**, Nima Dehmamy, Robin Walters, Rose Yu. Symmetry Teleportation for Accelerated Optimization. *Advances in Neural Information Processing Systems (NeurIPS)*, 2022.

Peter Eckmann, Kunyang Sun, **Bo Zhao**, Mudong Feng, Michael Gilson, Rose Yu. LIMO: Latent Inceptionism for Targeted Molecule Generation. *International Conference on Machine Learning (ICML)*, 2022.

James Fox, **Bo Zhao**, Beatriz Gonzalez Del Rio, Sivasankaran Rajamanickam, Rampi Ramprasad, Le Song. Concentric Spherical Neural Network for 3D Representation Learning. *International Joint Conference on Neural Networks (IJCNN)*, 2022.

Gregory A. Fields, Samuel F. Cieszynski, **Bo Zhao**, Kidan A. Tadesse, Mohammed A. Sheikh, Eugene V. Colla, and M. B. Weissman. Multiple Aging Mechanisms in Ferroelectric Deuterated Potassium Dihydrogen Phosphate. *Journal of Applied Physics* 125, 194102, 2019.

## EXPERIENCE

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**IBM** June - September 2022

AI Intern (Mentor: Nima Dehmamy)

Cambridge, MA

· Studied parameter space symmetry and conserved quantities in gradient flow.

## TEACHING

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**Teaching Assistant**, CS 4641 Machine Learning, Georgia Tech

Fall 2020

**Lead Course Assistant**, CS 225 Data Structures, UIUC

Fall 2017 - Spring 2019

## SKILLS

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**Programming** Python (PyTorch, Tensorflow), C++/C, MATLAB, SQL