Pei Ge

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Education Experience

- ### Michigan State University
  East Lansing, MI, USA

  Ph.D., Department of Computational Mathematics, Science and Engineering
  Jan. 2020 - Present

  Advisor: Huan Lei

- ### Southeast University
  Nanjing, Jiangsu, China

  B.S. of Applied Mathematics
  Sep. 2015 - July. 2019

  Advisor: Rui Du

Publication List (Google Scholar)

[1] **Pei Ge**, Zhongqiang Zhang, and Huan Lei. **Data-Driven Learning of the Generalized Langevin Equation with State-Dependent Memory**. *Physical Review Letters*, 2024

[2] **Pei Ge**, Linfeng Zhang, and Huan Lei. **Machine learning assisted coarse-grained molecular dynamics modeling of meso-scale interfacial fluids**. *Journal of Chemical Physics*, 2023

[3] Zhiyuan She, **Pei Ge**, and Huan Lei. **Data-driven construction of stochastic reduced dynamics encoded with non-Markovian features**. *Journal of Chemical Physics*, 2023

[4] Lidong Fang, **Pei Ge**, Lei Zhang, Weinan E, and Huan Lei. **DeePN^2: A Deep Learning-Based Non-Newtonian Hydrodynamic Model**. *Journal of Machine Learning*, 2022

Teaching Experience

- ### Teaching Assistant
  Fall 2024

  CMSE 201 - Introduction to Computational Modeling

  Michigan State University, Michigan, USA

Invited Talks

- ### DeePN^2: A deep learning-based non-Newtonian hydrodynamic model

  The NSF Computational Mathematics PI Meeting, Seattle (Poster), WA, USA
  Jul 2024

  Scale Bridging Meeting and Workshop (Poster), Los Alamos, NM, USA
  Apr 2024

- ### Data-driven Learning of Generalized Langevin Equations with State-dependent Memory

  SIAM New York-New Jersey-Pennsylvania Section (SIAM-NNP), NJ, USA
  Oct 2023