

Neng Shi

Contact Information

GRAVITY research group
Ohio State University
786 Dreese Lab, 2015 Neil Avenue
Columbus, Ohio, USA

Email: shi.1337@osu.edu
Phone: 614-218-3797

Research Interests

Scientific visualization, machine learning

Education

Department of Computer Science and Engineering, The Ohio State University, OH
Ph.D. in Computer Science and Engineering, 2019-
G.P.A. Overall 3.96/4.0

School of Earth Sciences, Zhejiang University, Hangzhou, China
B.E. in Geographic Information Science, 2014-2018
G.P.A. Overall 3.81/4.0, The last two years 3.89/4.0

Publications

Neng Shi, Jiayi Xu, Skylar W. Wurster, Hanqi Guo, Jonathan Woodring, Luke Van Roekel, and Han-Wei Shen *GNN-Surrogate: A Hierarchical and Adaptive Graph Neural Network for Parameter Space Exploration of Unstructured-Mesh Ocean Simulations*, IEEE Transactions on Visualization and Computer Graphics (Proc. IEEE PacificVis 2022), 2022

Neng Shi, Yubo Tao *CNNs based Viewpoint Estimation for Volume Visualization*, ACM Transactions on Intelligent Systems and Technology (TIST), 2019

Experiences

Graduate Research Associate July.2020-Jun.2020
The Ohio State University

Worked on exploration and visualization of ensemble datasets with deep learning

Summer Research Assistant Intern July.2020-Jun.2020
Los Alamos National Laboratory

Worked on using deep surrogate models to approximate ocean simulation functions, helping simulation parameter space exploration.

Teaching Assistant Jul.2017-Sept.2019
NineChapter Algorithm

Worked as the teaching assistant of Algorithm class and Artificial Intelligence training camp. Was responsible for communicating and answering questions and reviewing the course project.

Undergraduate Research Assistant Jul.2017-Sept.2019
Zhejiang University

Worked on using CNN models to estimate one given volume rendering image's viewpoint and help viewpoint selection.

Skills

Languages: C/C++, Python, JavaScript

Graphics and Data Visualization: OpenGL, WebGL, GLSL, D3.js

Machine Learning: PyTorch

HONORS AND AWARDS

University Fellowship, The Ohio State University, 2019-2020

Zhejiang University Academic Scholarship, 2014-2015, 2015-2016

Third Prize in Zhejiang University Student Programming Competition, 2016

First Prize in China NOIP (National Olympiad in Informatics in Provinces), 2012