# Neng Shi

#### **Contact Information**

GRAVITY research group Email: shi.1337@osu.edu Ohio State University Phone: 614-218-3797 786 Dreese Lab, 2015 Neil Avenue Columbus, Ohio, USA

## 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 Aug.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 selction.

# 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