

Jiahua Zhao

B.S.CANDIDATE · SOUTHERN UNIVERSITY OF SCIENCE AND TECHNOLOGY

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Education

[Southern University of Science and Technology \(SUSTech\)](#)

Guangdong, China

Ocean Science and Engineering

Ting Yang

Tutor

Bachelor of Oceanography

Sep. 2016 - Present

Skills

Programming C, Fortran, Matlab, Python, Julia, Bash

HPC Profiling, Optimization, OpenMP, MPI, CESM

Geophysics SAC, FAST, OpendTect

Hardware Arduino, Raspberry Pi, GPU

AI Machine Learning, Deep Learning

Lab Paleomagnetism and Environmental Magnetism, MFK1, JR-6, VSM

Honors & Awards

2019 **First Prize**, SUSTech's Student Scholarship *SUSTech*

2019 **1st price**, ASC19 Student Supercomputer Challenge *ASC*

2018 **First Prize**, SUSTech's Student Scholarship *SUSTech*

2018 **2nd price**, Chinese undergraduate Astronomical Innovation Contest *CAS*

2018 **2nd price**, ASC18 Student Supercomputer Challenge *ASC*

2017 **Bronze Winner**, The 2017 University Physics Competition *USA*

2017 **Excellence price**, The 11th iCAN International Contest of Innovation 2017 *China*

2017 **2nd price**, ASC17 Student Supercomputer Challenge *ASC*

2016 **Certification**, High Performance Computing Technology Engineer *China*

Work Experience

Earth and Planetary Sciences, Harvard University

Cambridge, MA

PROJECT PARTICIPANT IN HARVARD SEISMOLOGY GROUP

Oct. 2019 - Jan. 2020

Miaki Ishii

Tutor

- Deep Learning technique in DigitSeis

Lamont-Doherty Earth Observatory, Columbia University

Palisades, NY

PROJECT PARTICIPANT IN MARINE SEISMOLOGY GROUP

Jun. 2019 - Aug. 2019

Donna J. Shillington

Tutor

- New constrains on along-strike variations in synrift magmatism on the rifted margin

offshore North Carolina and Virginia from 2-D inversion results

Capstone Project Research, SUSTech & HKUST

Guangdong, China

STUDENT PARTICIPANT IN MARINE GEOLOGY GROUP

Jan. 2019 - Feb. 2019

Youming Chou

Tutor

- The impact of economic development and human activities on the coastal environment in Shenzhen and Hong Kong

Science and Engineering Computing Center, SUSTech

Guangdong, China

STUDENT ASSISTANT

Sep. 2018 - Jan. 2019

Lianping Wang

Tutor

- Testing and Optimization of High Performance Computing Softwares (VASP, CESM...)
- Optimization of Deep Learning Framework Based on Intel® Xeon Platform

Shanghai Astronomical Observatory, Chinese Academy of Sciences

ShangHai, China

INTERN IN RADIO ASTRONOMY GROUP

Jul. 2018 - Sep. 2018

Tao An

Tutor

- Searching for pulsars from HTRU Medlat archive data using Deep Learning technique
- Searching for Gravitational Waves signals from LIGO archive data using Deep Learning technique
- An optimization method based on OpenACC to the SKA-Convolve algorithm

Conferences & Papers

Fall Meeting 2019, AGU

San Francisco, CA, 9 - 13 December 2019

Section

TECTONOPHYSICS

Zhao, J (First Presenting Author), Shillington, D.J., Collin B., and Lindsay L. W.

Abstract Title: New Constraints on Along-Strike Variations in Synrift Magmatism on the Rifted Margin Offshore North Carolina and Virginia from Seismic Refraction Data