

Peng Zhai

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ADDRESS

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RESEARCH INTEREST

I am interested in using numerical simulation methods to understand earthquake source process. At present, my research is focused on earthquake cycle simulations using finite element method, through integrating laboratory-based friction laws and suitable far-field loading boundary conditions. Besides, I'm also very interested in using modern geodetic technology, such as GPS and InSAR, to survey crustal deformation in connection with earthquake, volcano and landslides.

EDUCATION

Jilin University

Bachelor of Science

Changchun, Jilin

July 2019

- GPA: 3.70/4.0
- 2016 The First Prize Scholarship
- 2017 The Second Prize Scholarship
- 2017 National Scholarship for Encouragement
- 2017 The Second Prize of Mathematical Contest in Jilin Province
- 2018 The Second Prize Scholarship
- 2018 National Scholarship for Encouragement
- 2018 Mathematical Contest In Modeling Certificate of Achievement-Honorable Mention
- 2018 Excellent Student
- 2019 Individual Scholarship
- 2019 The First Prize Scholarship
- 2019 The Second Prize of National Well Log Skill Competition
- 2019 Excellent Student
- 2019 Honor for Excellent Graduate

University of Science and Technology of China

Master of Science

Hefei, Anhui

Expected July 2022

- GPA: 3.88/4.3
- 2019 The First Prize Academic Scholarship
- 2020 The Second Prize Academic Scholarship
- 2021 The First Prize Academic Scholarship

PUBLICATIONS

1. Li, F., Zhai, P., Huang, J. Tan, H. Influences of the heterogeneity of viscoelastic medium on postseismic deformation of the 2008 MW7.9 Wenchuan earthquake. *Geodesy and Geodynamics*.
<https://doi.org/10.1016/j.geog.2021.08.006>

CONFERENCE PRESENTATIONS

1. Zhai, P., Huang, J., Numerical simulation on the controls of earthquake cycles in a three-dimensional model, CGU Annual Meeting, October. 2020 (Oral Presentation).
2. Zhai, P., Huang, J., Influences of lateral non-uniform viscosity on earthquake cycles in a three-dimensional numerical model, CGU Annual Meeting, The meeting is put off. 2021(Oral Presentation).

TRAINING & INTERSHIP

Participant

National University of Singapore

- 2nd NUS Upstream Petroleum Research Initiative (NUPRI) Workshop

May 2018

Singapore

EXTRACURRICULAR ACTIVITY

3rd Complete person

Jilin University

- College Students Innovation and Entrepreneurship Training Program(National Level):
Picking up and locating of P phase of microseismic signals

2017-2019

Changchun, Jilin

VOLUNTEER WORK

Part-time&Nonprofit

Jilin University

- Volunteer in “Love Gravitational Field” Youth Volunteer Association of Jilin University

2015-2019

Changchun, Jilin

TECHNICAL SKILLS

Computer Languages: Python, MATLAB, Shell Scripts and C

Numerical modelling: Finite element tool, Pylith

Others: Generic Mapping Tools, Trelis, Latex