

Fang Jingxing

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Education

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| Peking University | Expected 07/2021 |
| Department of Geophysics, School of Earth and Space Science | |
| • Programming languages: C, Python, Matlab | |
| • Awards and Honors: | |
| National Scholarship | 11/2018 |
| Leo KoGuan Scholarship | 10/2019 |
| 1 st Prize in National High School Physics Competition | 10/2016 |

Research

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| Research on the spontaneous rupture propagation on non-planar faults | 06/2019-present |
| <i>Undergraduate Research Training Program, Supervised by Prof. Haiming Zhang</i> | |
| • Mastered a rupture propagation simulation program based on the boundary integral equation method | |
| • Studied the Representation Theorems and non-hypersingular boundary integral equations for non-planar rupture dynamics | |
| • Adapted the rupture program for my needs of attaining 3-D stress states of elements on the fault | |
| • Analyzed the interaction between ruptures on the two branch planes in branching fault system | |

Selected Course Project

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| 3D FEM numerical simulation of selectivity of seismic electric signal (SES) | 05/2020 |
| <i>Geomagnetism and Geoelectricity, supervised by Prof. Qinghua Huang</i> | |
| • Reproduced the selectivity phenomenon of SES in 3-D model using COMSOL [®] Multiphysics | |
| Calculate the Moho depth and Poisson's ratio under BJT station in Beijing, China | 05/2020 |
| <i>Experiments of Seismology, supervised by Prof. Shiyong Zhou</i> | |
| • Calculated receiver function with teleseismic records at BJT station | |
| • Used the receiver function and H- κ relation to determine the Moho depth and Poisson's ratio under BJT station | |
| A review of the applications of seismological methods in subsidence research | 06/2019 |
| <i>Earth Catastrophes, supervised by prof. Yong Zhang</i> | |
| Studying the gravity capillary wave equations | 05/2019 |
| <i>Methods of Mathematical Physics, supervised by Prof. Chunyuan Gao</i> | |
| • Analytically solved a simplified capillary wave equation and worked out its dispersion relation | |
| • Numerically solved capillary wave equations in Cartesian coordinates and in Cylindrical coordinates using FDM | |
| The mechanical analysis of pen spinning techniques | 12/2017 |
| <i>Mechanics, supervised by Prof. Guohui Zhang</i> | |

Extracurricular Activities

- Calligraphy Club, Peking University