

### PHD STUDENT · GEOPHYSICS

## 3651 Trousdale Pkwy, Los Angeles, CA 90089

Education	n	
PH.D. IN GEOR	f Southern California PHYSICS (IN PROGRESS) of. Yehuda Ben-Zion projects with Prof. John Vadale	Los Angeles, CA 2021 - present
Thesis: Free	ersity PHYSICS (WITH HONOR) quency-Bessel Transform Method to Extract Higher-Mode Rayleigh Dispersion Curves. of. Xiaofei Chen	Beijing, China 2016 - 2020
Professio	nal Experience	
2021-pres. 2020-2021 2020-2021	<b>Graduate Research Assistant</b> , University of Southern California <b>Research Assistant</b> , Institute of Theoretical and Applied Geophysics, Peking University <b>Research Assistant</b> , Institute of Geophysics, China Earthquake Administration	
Publication	ons	
PUBLISHED		
	7. Zhou, S. Zhou and <b>H. Zhang</b> , 2023. Detection of Fault Zone Head Waves and the Fault Interfihe-Anninghe Fault Zone(Eastern Tibetan Plateau), <i>Geophys. J. Int.</i> , <b>234</b> (2), 1157-1167, doi: 10.	
In Review		
	nd Y. Ben-Zion, 2023. Enhancing regional seismic velocity model with higher-resolution l lictionary learning, <i>Geophys. Res. Lette.</i> , in review.	ocal results using
	I. Meng and Y. Ben-Zion, 2023. Lateral variations across the Southern San Andreas Fault Zo of traffic signals at a dense seismic array, <i>Geophys. Res. Lett.</i> , in review.	one revealed from
Awards, F	Fellowships, & Grants	
2023	Earth Sciences Graduate Student Research Award, University of Southern California	
2021	Graduate Student Fellowship, University of Southern California	
2020	Distinguished Graduate, Peking University Distinguished Graduate, Beijing City	
2019	Outstanding Research Award, Peking University	
2017	May Fourth Scholarship, Peking University Merit Student, Peking University	
2015	The First Prize, Chinese Physics Olympiad	

Selected Talks & Presentations \_\_\_\_\_

- [2] **Zhang, H.**, H. Meng and Y. Ben-Zion, 2022. Internal Structure of Southern San Andreas Fault Zone from Traffic Signals recorded by a Dense Seismic Array. Poster: *SCEC Annual Meeting*, Palm Springs, CA.
- [1] **Zhang H.**, S. Zhou, Y. Zhou and L. Wang, 2019. CPPC: A New Method to Detect and Pick the Fault Zone Head Wave Arrivals and its Application in Xiaojiang Fault Zone of West-Southern China. Oral presentation: AGU Fall Meeting, San Francisco, CA.

## Teaching Experience \_\_\_\_\_

2022	Crises of a Planet, Teaching Assistant	USC
2019	The Earth Gravity Field, Teaching Assistant	PKU

# Outreach & Professional Development \_\_\_\_\_

### SERVICE AND OUTREACH

2018-2019 Peking University Football Association, Chairman

#### PROFESSIONAL MEMBERSHIPS

American Geophysical Union Seismological Society of America Geological Society of America

#### **EXPERTISE**

Generalization Theory: Mathematical Physics, Linear Algebra, General Physics, Probability and Statistics

**Programming Language**: Python, MATLAB, Mathematica, C/C++, R, Fortran **Experimental skills**: Rock Mechanics Experiment, Seismological Field Work