

## PHD STUDENT · GEOPHYSICS

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Education	
University of Southern California Ph.D. IN GEOPHYSICS (IN PROGRESS)  Advisor: John Vidale & Yehuda Ben-Zion	Los Angeles, CA 2021 - present
Peking University B.Sc. IN GEOPHYSICS  • Thesis: Frequency-Bessel Transform Method to Extract Higher-Mode Rayleigh I  • Advisor: Prof. Xiaofei Chen	Beijing, China 2016 - 2020 Dispersion Curves.
Professional Experience	
<ul> <li>2021-Now Research Assistant, University of Southern California</li> <li>2020-2021 Research Assistant, Institute of Geophysics, China Earthquake Action</li> </ul>	dministration
Publications	
[3] <b>Zhang, H.</b> and Y. Ben-Zion, 2024. Enhancing regional seismic velocity most sparse dictionary learning, <i>J. Geophys. Res.</i> , accepted.	del with higher-resolution local results using
[2] <b>Zhang, H.</b> , H. Meng and Y. Ben-Zion, 2023. Lateral variations across the Sou analysis of traffic signals at a dense seismic array, <i>Geophys. Res. Lett.</i> , <b>50</b> , 6	
[1] Wang, L., Y. Zhou, S. Zhou and <b>H. Zhang</b> , 2023. Detection of Fault Zone Head Xianshuihe-Anninghe Fault Zone (Eastern Tibetan Plateau), <i>Geophys. J. Int</i>	
Awards, Fellowships & Grants	
2023 Earth Sciences Graduate Student Research Award, University	of Southern California
2020 <b>Distinguished Graduate</b> , Peking University & Beijing City	
2019 Outstanding Research Award, Peking University	
2017 <b>May Fourth Scholarship</b> , Peking University <b>Merit Student</b> , Peking University	
Teaching Experience	
<ul> <li>2022 Crises of a Planet, Teaching Assistant</li> <li>2019 The Earth Gravity Field, Teaching Assistant</li> </ul>	USC PKU
Outreach & Professional Development	
Expertise	

**Generalization Theory**: Mathematical Physics, Theoretical Physics, Probability and Statistics, Machine Learning

**Programming Language**: Python, MATLAB, Mathematica, C/C++, R, Fortran