

# DANQI JIANG - CURRICULUM VITAE

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Institute for Geophysics  
Jackson School of Geosciences  
The University of Texas at Austin

## Education

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**2021- present    PhD in Marine Geology & Geophysics    The University of Texas at Austin**

**Relevant Coursework:** Seismology I, Continental Tectonics, Marine Tectonics, Sedimentary Basin Analysis, Physics of Earth, Marine Geology and Geophysics Field Course

**Thesis Topic:** Structure interpretation, modeling, and restoration of 2D and 3D seismic reflection data to investigate fault slip behavior, deformation evolution, and earthquake hazards along the Cascadia and Hikurangi subduction margins (*advisors: Dr. Nathan Bangs and Dr. Shuoshuo Han*)

**2017-2020    MS in Marine Geology    Hohai University, Nanjing, China**

**Relevant Coursework:** Advanced Seismic Interpretation Methods, Plate Tectonic and Crustal Evolution, Sedimentary Basin: From Principles to Analyses, Marine Tectonics and Geophysics

**2013-2017    BS in Water Engineering    Hohai University, Nanjing, China**

**Relevant Coursework:** Hydrogeology and Geology Engineering, Structuring Physics, Geographical Information System

## Publication

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**Jiang, D., Wang, M., Song, G., Yan, B., & Feng, W. (2020).** Transition from fault-propagation folds to fault-bend folds determined by along-strike variations of structural styles and fault displacement-distance relationships: The Sumatou anticline, Sichuan Basin, China. *Journal of Structural Geology*, 131, 103951. <https://doi.org/10.1016/j.jsg.2019.103951>.

## Presentation

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**American Geophysical Union Fall Meeting 2019    Poster**  
Constraining Lateral Transition of Fault-related Folding Models Using Fault Displacement-distance Relationships and Structural Variations: the Sumatou Anticline, Sichuan Basin, China

## Research Experience

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**Controlling Factors of 3D Model Evolution for Thrust-related Folds (MS Thesis):** using 3D seismic volume interpretation and forward modeling to evaluate the lateral transition of different fault-related folding mechanisms in the Sumatou anticline, Sichuan Basin, China

**Environmental Parameters of Petroliferous Basin in South Central of South China Sea:** borehole lithology description data reorganization and sediment distribution characteristics analysis

## Field Experience

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**May-2020:** 3-day research cruise for marine hydrology, seafloor sediment and biology data collection off the Yangtze Estuary, China.

**July-2019:** 18-day geological survey and surface geological data collection in Sichuan Basin, China under *China Earthquake Science Experiment Program*.

## Skills

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- Software: ArcGIS, GeoGraphix Discovery, Paradigm, StructureSolver, MATLAB, CorelDRAW.
- 3-D seismic interpretation, modeling, and restoration; preliminary processing of seismic data; structural numerical and physical modeling.

## Honors & Awards

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- Award for Excellent Oral Presentation in the Second Youth Academic Forum of Structural Geology and Geodynamics, *Geological Society of China*
- Special Prize of Graduate Student Academic Scholarship, *Hohai University*