

# CHEN Jie

Institute: Université de Paris, Institut de Physique du Globe de Paris (IPGP)

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## Research Interests

Mid-ocean Ridges, Submarine volcanism and magma plumbing system, Passive seismicity at oceanic detachment faults, Hydrothermal circulation, Geological mapping, Numerical thermal modelling.

## Education

- 2018-            Ph.D. student, Marine Geoscience, IPGP, Université de Paris  
Thesis (in progress): The impact of MELT SUPPLY on fault distribution, volcanism, and the thermal regime at ultraslow spreading ridges.  
Advisor: Dr. Mathilde Cannat.  
Collaborator: Dr. Wayne Crawford and Dr. Jean-Arthur Olive.
- 2015-2018    MA. Eng., Marine Geophysical, Second Institute of Oceanography, MNR  
Thesis: Segmentation and melt supply along the Southwest Indian Ridge between the Indomed and Gallieni transform faults (46°-52°E).
- 2011-2015    B. Eng., Marine Geophysical, Ocean University of China

## Selected Publications (*complete list available [here](#)*)

1. **Chen J**, Cannat M, Tao C, Sauter D, and Munsch M (2021). 780 thousand years of upper-crustal construction at a melt-rich segment of the ultraslow spreading Southwest Indian Ridge 50°28'E. Journal of Geophysical Research: Solid Earth. <https://doi.org/10.1029/2021JB022152>.
2. **Chen J**, Crawford W C, and Cannat M. Microseismicity of a nearly amagmatic mid-ocean ridge flip-flop detachment fault system. (In prep; AGU [poster](#) and [video recording](#))
3. **Chen J**, Olive JA, and Cannat M. Melt supply control on the thermal regime of slow and ultraslow spreading ridges. (In prep)
4. **Chen J**, Zhang T, Cannat M, Li H, and Tao C. Evolution of enhanced magmatism at the ultraslow spreading Southwest Indian Ridge between 46°E and 53°E. (In prep)
5. **Chen J**, Tao C, Liang J et al., (2018). Newly discovered hydrothermal fields along the ultraslow-spreading Southwest Indian Ridge around 63°E. Acta Oceanologica Sinica. <https://doi.org/10.1007/s13131-018-1333-y>.

## Conferences

1. **Chen J**, Crawford W C, and Cannat M. Microseismicity constraints on brittle lithosphere thickness at a nearly amagmatic spreading corridor of the ultraslow Southwest Indian Ridge. AGU Fall Meeting, 2020. (poster)
2. **Chen J**, Cannat M, and Tao C. 780-thousand years of volcanic seafloor accretion at a melt-rich segment of the ultraslow-spreading Southwest Indian Ridge 50°28'E. AGU Fall Meeting, 2019. (poster)
3. **Chen J**, Li H, Zhang T, et al., Segmentation and melt supply along the ultraslow-spreading Southwest Indian Ridge (46°E to 52°20'E). China Oceanography Academy, Qingdao, October 31, 2017. (poster)
4. **Chen J**, Li H, Zhang T, et al., Characteristics and mechanisms of magma supply along Southwest Indian Ridge between 46°E and 52.3°E. Chinese Geophysical Union Fall meeting, Beijing, October 15-18, 2017. (oral presentation)

## Funding

2018-2021     China Scholarship Council (CSC)

## Sea-going Experience

Pourquoi Pas? Momarsat19 at Mid-Atlantic Ridge, June 10-July 4, 2019

XueLong icebreaker, trial in the Pacific, July 7-14, 2017

## Relevant Skills & Others

Computer Skills: GMT (professional), Global Mapper, MATLAB, Python, SEISAN, GitHub

Language: English (fluent), Chinese (native), French (beginner)

Hobby: Kungfu (professional)