Jiacheng Tian

PhD student in Geophysical Fluid Dynamics Group at ETH Zurich	
jiacheng.tian@eaps.ethz.ch	

EDUCATION	 PhD in Geophysics, ETH Zurich, Switzerland Participating in the ERC project NONUNE Advisor: Prof. Paul Tackley 	2021.11 - Present		
	 MSc in Earth Sciences, ETH Zurich, Switzerland Thesis: "The influence of a weak crust on Venus tectonics" Advisor: Prof. Paul Tackley 	2018.09 - 2021.09		
	BSc in Geology, Peking University, China	2013.09 - 2017.06		
PUBLICATIONS	Google Scholar: https://scholar.google.com/citations?user=-WZ3E_0AAAAJ&hl=en			
	In review:2. Tian, J., Lourenço, D. L., & Tackley, P. J., Influence of lower mantle thermal conductivity on the thermal evolution of Earth's mantle and core, <i>EPSL</i>			
	 Published: 1. Tian, J., Tackley, P. J., & Lourenço, D. L. (2023). The tectonics and volcanism of Venus: New modes facilitated by realistic crustal rheology and intrusive magmatism. <i>Icarus</i>, 399, 115539. https://doi.org/10.1016/j.icarus.2023.115539 			
Awards and Grants	Chun-Tsung Scholar, Chun-Tsung Endowment May 4th Scholarship, Peking University Robin Li Scholarship, Peking University	2017 2015 2014		
Skills	 Geodynamics Utilizing and developing the finite-volume convection code StagYY Research projects: Linking the geodynamics in early Earth to short-live isotope records in Archean (PhD) Earth's thermal evolution with different lower mantle thermal conductivity (PhD) Tectonic regime and resurfacing mechanism for Venus (Master's thesis) Overturn of ilmenite-bearing cumulates with SPA basin impact (semester project with Dr. Antoine Rozel) 			
	 Programming Languages: MATLAB, Fortran, Julia, Python Tools: Git, Paraview, Bash script 			
TEACHING	Gravimetry (TA, field course) Introduction to finite element modelling in geosciences (TA)	2023, 2024 2023		
OUTREACH	2022 Ada Lovelace Workshop (Hungary): the workshop is co-organized by our group and the group at Eötvös Loránd University			
CONFERENCE PRESENTATIONS	*Presentations related to published works are omitted			
	5. Tian, J. , Tackley, P. & Elliott, T. Tracking the Evolution of Isotopic Heterogeneities in Early Earth with Mantle Convection Models, <i>AGU 2024</i>			
	4. Tian, J. , & Tackley, P. The influence of deep mantle thermal term thermal evolution of Earth's mantle and core, <i>EGU</i> 2024	conductivity on the long- 4.		

- 3. (Oral) **Tian, J.**, & Tackley, P. Effects of thermal conductivity on the long-term thermal evolution of the lower mantle and the core, *AGU 2023*
- 2. **Tian, J.**, & Tackley, P. Long-term preservation of geochemical heterogeneities in early Earth: tracking short-lived isotopes in geodynamic models, *EGU 2023*.
- 1. **Tian, J.**, & Tackley, P. The evolution of isotope heterogeneities in early Earth: A geodynamic perspective, *AGU 2022*.

LANGUAGE Chinese: native; English: fluent