

SHORT BIO

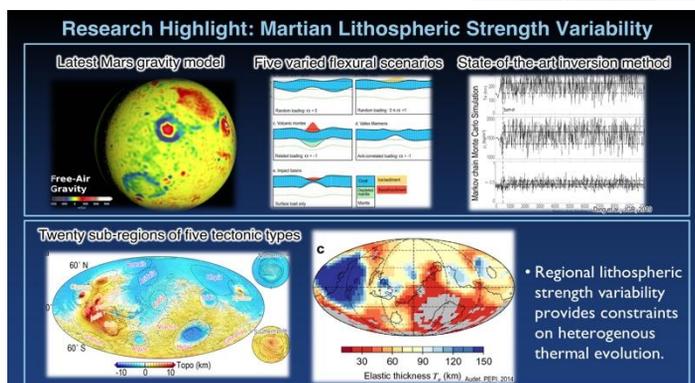
As a planetary geophysicist, I am intrigued by the interaction between long-term tectonic evolution and short-term catastrophic processes. By combining numerical geodynamic models with geodetic observations, my research focuses on thermo-mechanical evolution of the lithosphere and its response to various loading processes (e.g., earthquakes, volcanoes, and impacts) on time scales from minutes to millions of years.

I received my Bachelor's degree from University of Science and Technology of China in 2009; and graduated from Massachusetts Institute of Technology /Woods Hole Oceanographic Institution Joint Program in 2014, under the guidance of Dr. Jian Lin. Worked with Prof. Maria T. Zuber as a Postdoc Associate at MIT and with Prof. Qinghua Huang at Peking University.

PhD: Geophysics – MIT/WHOI Joint Program
Bachelor: Geophysics – U. of Sci. and Tech. of China

Asst. Prof.

**Min
DING**



KEY PUBLICATIONS (first author)

- Ding, M., Soderblom, J. M., Bierson, C. J., & Zuber, M. T. (2021).** Investigating the Influences of Crustal Thickness and Temperature on the Uplift of Mantle Material Beneath Large Impact Craters on the Moon. *J. Geophys. Res. Planets*.
- Ding, M., Lin, J., Gu, C., Huang, Q., & Zuber, M. T. (2019).** Variations in Martian Lithospheric Strength Based on Gravity/Topography Analysis. *J. Geophys. Res. Planets*, 124, 3095–3118.
- Ding, M., Soderblom, J. M., Bierson, C. J., Nimmo, F., Milbury, C., & Zuber, M. T. (2018).** Constraints on lunar crustal porosity from the gravitational signature of impact craters. *J. Geophys. Res. Planets*, 123.
- Ding, M., & Lin, J. (2016).** Deformation and faulting of subduction overriding plate caused by a subducted seamount. *Geophys. Res. Lett.*, 2016GL069785.
- Ding, M., & Lin, J. (2014).** Post-seismic viscoelastic deformation and stress transfer after the 1960 M9.5 Valdivia, Chile earthquake: effects on the 2010 M8.8 Maule, Chile earthquake. *Geophys. J. Int.*, ggu048.

PROFESSIONAL EXPERIENCE

- 2019 – Present** – Macau University of Science and Technology, Macao (China) – Asst. Prof.
- 2017 – 2019** – Peking University (China) – Boxin Post Doctoral
- 2015 – 2016** – Massachusetts Institute of Technology (US) – Post Doctoral

GRANTS (principal investigator)

- FDTC – 2021-2024** – Thermo-mechanical evolution of the **Martian** lithosphere based on the Tianwen-1 data
- NSFC – 2022-2025** – Influence of impact events on the internal structure and thermo-dynamic evolution of the **Moon** based on numerical simulation
- NSFC – 2018-2020** – Influence of subduction zone type on seamount **subduction dynamics**, 2018–2020