SHORT BIO

Following a Bachelor degree in Energy Power System at Wuhan University in 2011, I entered University of Chinese Academy of Sciences (Beijing) to start a successive master-doctor program and obtained my PhD degree in Fluid dynamics in 2018.

After a two-month visiting job at Shanghai Astronomical Observatory, Chinese Academy of Sciences Center for Astro-Geodynamics, I accepted a post-doctoral position at the State Key Laboratory of Lunar and Planetary Sciences, Macau University of Science and Technology (2018 to date).

My research field involves computational fluid dynamics, high-performance scientific computing and planetary dynamo simulations.
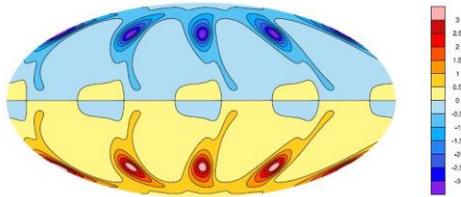
Post-doctor

Liang Yin

PhD: FLUID DYNAMICS – University of Chinese Academy of Sciences, Beijing (UCAS)

B.E: ENERGY POWER SYSTEM – Wuhan University, Wuhan
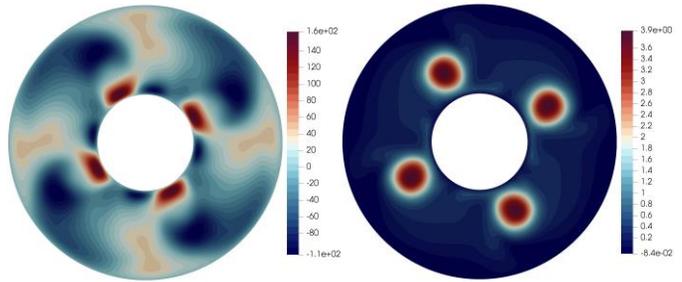
Equatorial slices – Yin et al., 2021

KEY PUBLICATIONS (*first author*)

Liang Yin, Chao Yang, Shi-Zhuang Ma, Ji-Zu Huang, Ying Cai, 2017. *Parallel numerical simulation of the thermal convection in the Earth's outer core on the cubed-sphere*. **Geophysical Journal International**

Liang Yin, Chao Yang, Shi-Zhuang Ma, 2019. *Parallel Numerical Simulations of Thermal Convection in the Earth's Outer Core Based on Domain Decomposition and Multigrid*. **Chinese Journal of Computational Physics**

Liang Yin, Chao Yang, Shi-Zhuang Ma, Ke-Ke Zhang, 2019. *Parallel and fully implicit simulations of the thermal convection in the Earth's outer core*. **Computers and Fluids**

Liang Yin, Chao Yang, Shi-Zhuang Ma, Ying Cai, Ke-Ke Zhang, 2021. *Parallel finite volume simulation of the spherical shell dynamo with pseudo-vacuum magnetic boundary conditions*. **Journal of Computational Physics** (accepted)

PROFESSIONAL EXPERIENCE

2018.10 - present – *Macau University of Science and Technology, Macau (China) – Post Doctoral*

2020.01.06 - 2020.01.17 *-- School of Mathematical Sciences, Peking University, Beijing, China -- Academic visitor*

2019.04 - 2019.08 *-- Shanghai Astronomical Observatory, Chinese Academy of Sciences Center for Astro-Geodynamics -- Academic visitor*

2018.07 - 2018.09 *-- Shanghai Astronomical Observatory, Chinese Academy of Sciences Center for Astro-Geodynamics -- Academic visitor*

GRANTS

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