

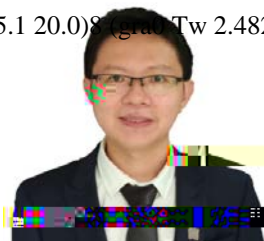
# Research Field: Planetary dust and radiation environment

## Focused Field: Lunar & cometary dust, space radiation

### SHORT BIO

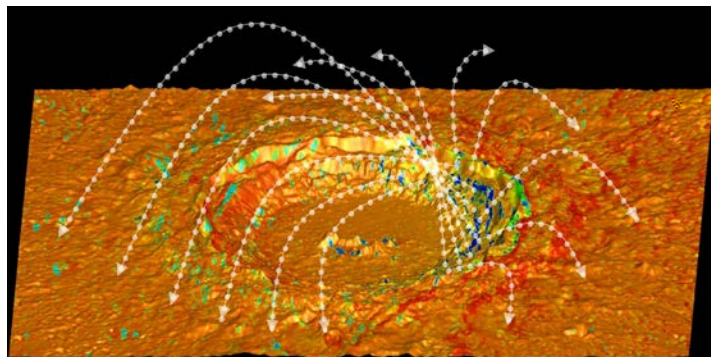
I finished my B.Sc. and PhD degree in Physics in 2004 and 2010 at Nanjing

Professor



PhD (2010): Physics (Nuclear Physics) – Nanjing University

Bachelor (2004): Physics (Microelectronics) – Nanjing University



### RECENT PUBLICATIONS (300+ papers, 10000+ citations, <https://scholar.must.edu.mo/scholar/100153>)

Hsinchen Yu and Xiaoping Zhang\*, *Physics of Fluids* 34, 123106 (2022)



### PROFESSIONAL EXPERIENCE

2017 – 2023 –

2012 – 2017 –

### PROJECTS & AWARDS (Selected)

Scientific PI of two scientific payloads: Dust Analyzer for Chinese asteroid mission (2021-2025) & Solar X-ray Detector for “Aoke-1” Satellite (2020-2022)

Macau Natural Science Award 2016 (First Prize) & 2022 (Second Prize)

FDCT – 2022-2025 – PI – Study on electrostatic migration mechanism of dust in space environment

FDCT – 2019-2022 – PI – Scientific analysis of Chang'E-4 lunar exploration data

NSFC-FDCT – 2017-2020 – PI – Theoretic study on some key nuclear reactions and its applications in the research of Mars radiation environment

FDCT – 2014-2017 – PI – Research on the scientific and engineering questions about lunar dust