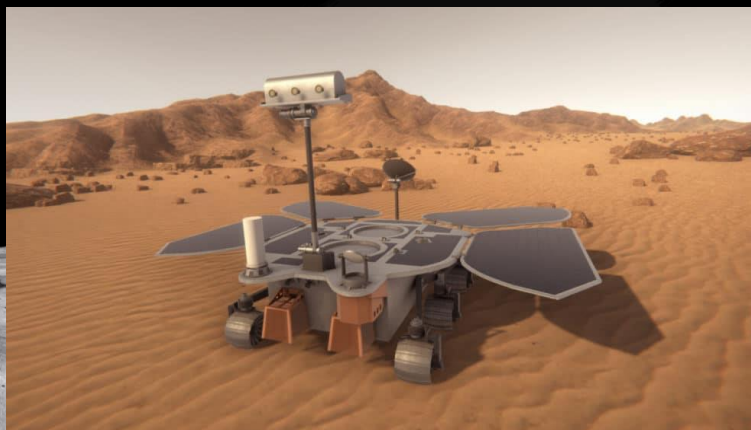
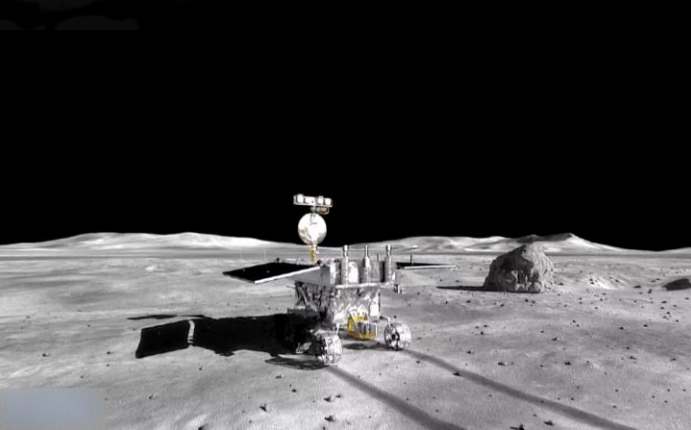




Research Field: PLANETARY SURFACE PROCESSES

Focused Field: GROUND PENETRATING RADAR



Associate Professor

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PhD: Electrical & Computer Engineering – University of Pittsburgh

Masters: Microelectronics – Nanjing University

Bachelor: Physics – Nanjing University

KEY PUBLICATIONS *(Corresponding author)*

J. Lai, **Y. Xu**, et al., 2020.

*First look by the Yutu-2 rover at the deep subsurface structure at the lunar farside. **Nature Communications***

J. Lai, **Y Xu**, et al., 2019.

*Comparison of dielectric properties and structure of lunar regolith at Chang'e-3 and Chang'e-4 landing sites revealed by ground-penetrating radar. **Geophysical Research Letters***

J. Lai, **Y.Xu**, et al., 2016.

*Structural analysis of lunar subsurface with Chang 'E-3 lunar penetrating radar. **Planetary and Space Science***

PROFESSIONAL EXPERIENCE

Ongoing – 2021 – Macau University of Science and Technology (Macao) – Associate Professor

2013 – 2021 – Macau University of Science and Technology (Macao) – Assistant Professor

2012 – 2013 – AMD Inc. (Beijing) – Senior Researcher

2007 – 2012 – University of Pittsburgh (U.S.) – Research Assistant

GRANTS

FDCT (0089/2018/A3) – 2019.1-2022.1 – Principal Investigator

Searching Subsurface Water Ice on Mars with Radar Data

Pre-research Project on Civil Aerospace Technologies of **CNSA (D020101) – 2019.1-2022.12** – CO-PI

Study on the main geological processes on the surface of Mars and the livability of life and environment

FDCT (121/2017/A3) – 2018.1 -2021.1 – CO-PI, Comparative Study on the Evolution of Paleo-basin and Qaidam Basin in Terra Sirenum Area of Mars: Implications from Astrobiology

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