Kang Liang

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RESEARCH INTERESTS	I am interested in promoting InSAR measurements accuracy and simplicity and understanding mechanics of slow moving landslides. My current focuses include:

- Deep learning for InSAR processing and analysis
- High performance computing for InSAR processing
- Landslides mechanism with geodentic observation

EDUCATION

Southern Methodist University — Dallas, Texas, U.S.
Ph.D. in Geophysics — *Aug 2020 – now*
Advisor: Prof. Zhong Lu

University of Science and Technology of China — Hefei, China
B.S. in Geophysics — *Sep 2016 – Jun 2020*

SKILLS

Programming C, CUDA, Python, Matlab, LaTeX, Bash
Tools Vim, Git, Linux
Languages English, Mandarin

PUBLICATIONS

1. K. Liang, J. Kim, Z. Lu, M. G. Bato, V. Brancato, and H. Fattahi, "The feasibility and requirements for offset tracking on gslc," *AGU23*, 2023.
2. H. Fattahi, D. P. Bekaert, V. Brancato, Z. Yunjun, Z. Lu, M. G. Bato, J. W. Kim, S. Jeong, K. Liang, and S. Sangha, "Opera coregistered single look complex products from sentinel-1 data," in *Fall Meeting 2022*, AGU, 2022.

INVITED TALKS

1. "Offset tracking with geocoded SLC", NASA OPERA Project Science Team — *May 15th, 2024*

PROJECTS PARTICIPATED

Moraine - Modern Radar Interferometry Environment; A simple, stupid InSAR postprocessing tool in big data era
- Serve as author and maintainer.
- Implement fast statistical homogenious pixels identification, adaptive multi-looking and phase linking with GPU support.
- Aim at high-performance hybrid PS/DS processing.

ATBD: Notebooks for NISAR Solid Earth Algorithm Theoretical Basis Document
- Implement jupyter notebooks for ATBD transient deformation requirement (663).
- Help revise the algorithm theoretical basis document.

OPERA Coregistered Single Look Complex (CSLC) validation tools
- Help develop and validate jupyter notebooks for absolute and relative geolocation error for sentinel-1 SLC.

AWARDS

- Geoscience Climbing Scholarship, USTC — *2019*
- National Encouragement Scholarship, USTC — *2018*
- Physics Innovation Research Experimental Paper Competition Special Award, USTC — *2018*
- 817 Alumni Awards Scholarship, USTC — *2017*
- National Encouragement Scholarship, USTC — *2017*