

Hangyu Lyu



1. Background

B.Eng., Tongji University, 2017

M.A.Sc. Memorial University, Oct., 2020

M.Eng. Memorial University, Oct., 2022 (expected)

2. Thesis and Supervisors

Sea ice classification from RADARSAT Constellation Mission images using Normalizer-Free ResNet

• **Supervisors:** Dr. Weimin Huang, Dr. Masoud Mahdianpari

3. Publication

- 1) H. Lyu, W. Huang, and M. Mahdianpari, “[A Meta-Analysis of Sea Ice Monitoring Using Spaceborne Polarimetric SAR: Advances in the Last Decade,](#)” *IEEE J. Sel. Topics Appl. Earth Observ. Remote Sens.*, vol. 15, pp. 6158-6179, 2022.
- 2) H. Lyu, W. Huang, and M. Mahdianpari, “[NFNet Based Sea Ice Classification from Radarsat Constellation Mission Data,](#)” *10th International Conference on Agro-Geoinformatics and 43rd Canadian Symposium on Remote Sensing*, Quebec City, Canada, 2022.
- 3) H. Lyu and W. Huang, “[Comparison of Sea Ice Classification From RADARSAT Constellation Mission and Sentinel-1 SAR Imagery,](#)” *IEEE International Geoscience and Remote Sensing Symposium*, Kuala Lumpur, Malaysia, 2022.
- 4) H. Lyu, W. Huang, and M. Mahdianpari, “[Eastern Arctic Sea Ice Sensing: First Results From the RADARSAT Constellation Mission Data,](#)” *Remote Sens.*, vol. 14, no. 5, 1165, 2022.
- 5) H. Lyu, W. Huang, and M. Mahdianpari, “[Sea ice detection from the RADARSAT Constellation Mission experiment data,](#)” *IEEE 34th Canadian Conference on Electrical and Computer Engineering (CCECE)*, Canada, 2021. (invited paper).

- 6) H. Lyu, W. Huang, and M. Mahdianpari, “[Eastern Arctic Sea Ice Detection Using RADARSAT Constellation Mission Data: A Case Study Over Davis Strait](#),” *IEEE NECEC Conference*, St. John's, Canada, 2021.
- 7) H. Lyu, W. Huang, and M. Mahdianpari, “[Review of the RADARSAT Constellation Mission and Its Applications](#),” *IEEE NECEC Conference*, St. John's, Canada, 2020.

4. **Award**

- Fellow of School of Graduate Studies, Memorial University, 2022 (to be awarded)