Nima Ahmadian

1. ***Background***

B.Eng., Geomatics Engineering, University of Tabriz, 2020
M.Eng., Remote Sensing Engineering, University of Tabriz, 2023
PhD., Computer Engineering, Memorial University, (Expected Jan 2029)

2. ***Thesis and Supervisors***

Sea ice classification with deep learning

- Supervisors: Dr. Matthew Hamilton and Dr. Weimin Huang

3. ***Publication***

1) N. Ahmadian, M. Hamilton and W. Huang, "Sea ice classification enhancement using brier loss based calibration," *IEEE CCECE*, Montreal, Canada, 2026.
2) N. Ahmadian, M. Hamilton and W. Huang, "Evaluating the impact of water on the sea ice classification metrics of the AI4Arctic dataset," *IEEE Oceans*, Sanya, China, 2026.
3) N. Ahmadian, M. Hamilton, and W. Huang, "Sea ice classification enhancement using calibration-focused loss functions," *Remote Sens.*, vol. 18, no. 5, p. 810, 2026.
4) N. Ahmadian, M. Hamilton, and W. Huang, "Polarization-aware Cross-Gate U-Net for sea ice classification," *IEEE Geosci. Remote Sens. Lett.*, vol. 23, pp. 1–5, 2026, art. no. 1500305.
5) N. Ahmadian, M. Hamilton, and W. Huang, "Performance evaluation of three deep learning models for river ice segmentation from aerial images," *IEEE ANTEM*, St. John's, NL, Canada, 2025.