



Dr. Guowei Yao

1. Background

B.Eng., Inner Mongolia University of Science and Technology, 2012

M.Eng., Harbin Institute of Technology, 2015

PhD, Harbin Institute of Technology, July 2021

2. Thesis and Supervisors

Shipborne High Frequency Surface Wave Radar

• Supervisors: Dr. Junhao Xie (China), Dr. Weimin Huang (Canada)

3. Publication

- 1) G. Yao, J. Xie, and W. Huang, "High Frequency Radar Ocean Surface Cross Section for the Case of Floating Platform Incorporating a Six DOF Oscillation Motion Model," *IEEE J. Oceanic Eng.*, vol. 46, no. 1, pp. 156-171, 2021.
- 2) G. Yao, J. Xie, and W. Huang, "Ocean surface cross section for bistatic HF radar incorporating a six DOF oscillation motion model," *Remote Sens.*, vol. 11, no. 23, 2738, 2019.
- 3) G. Yao, J. Xie, and W. Huang, "First-order Ocean Surface Cross Section for Bistatic HFSWR Incorporating a Horizontal Oscillation Motion Model," *IEEE RadarCon*, Boston, USA, 2019.

- 4) X. Chen, W. Huang, and G. Yao, "Wind speed estimation from X-band marine radar images using support vector regression method," *IEEE Geosci. Remote Sens. Lett.*, vol. 15, no. 9, pp. 1312-1316, 2018.
- 5) G. Yao, J. Xie, and W. Huang, "First-Order Ocean Surface Cross Section for Shipborne HFSWR Incorporating a Horizontal Oscillation Motion Model," *IET Radar Sonar Navig.*, vol. 12, no. 9, pp. 973-978, 2018.
- 6) G. Yao, J. Xie, and W. Huang, "First-Order Ocean Surface Cross Section for Shipborne HFSWR with Yaw Motion," *4th Ocean Radar Conf. Asia-Pacific*, Okinawa, Japan, 2018.
- 7) G. Yao, J. Xie, W. Huang, Z. Ji, and W. Zhou, "Theoretical analysis of the first-order sea clutter in shipborne high-frequency surface wave radar," *IEEE RadarCon*, Oklahoma City, USA, pp. 1255-1259, 2018.