Mr. Chengxi Shen

1. ***Background***

B.Sc., Wuhan University, 2008
M.Eng. Memorial University, May, 2013

2. ***Thesis and Supervisors***

The High Frequency Surface Wave Radar Cross Section for Ocean Swell: Derivation and Inversion

- Supervisors: Dr. Weimin Huang & Dr. Eric Gill

3. ***Publication***

1) W. Huang, R. Carrasco, C. Shen, E. W. Gill, J. Horstmann, "Surface Current Measurements Using X-band Marine Radar with Vertical Polarization", *IEEE Trans. Geosci.*, vol. 54, no. 5, pp. 2988-2997, 2016.
2) C. Shen, W. Huang, E. W. Gill, R. Carrasco, J. Horstmann, "An Algorithm for Surface Current Retrieval From X-band Marine Radar Images," *Remote Sens.*, vol. 7, no. 6, pp. 7753-7767, 2015.
3) C. Shen, W. Huang, and E. W. Gill, "Application of Polar-Current-Shell-Based Algorithm for Surface Current Extraction From Shipborne X-band Nautical Radar Images", *11th IEEE/OES CWTM*, St. Petersburg, USA, 2015.
4) C. Shen, W. Huang, and E. W. Gill, "An alternative method for surface current extraction from X-band marine radar images", *IEEE International Geoscience and Remote Sensing Symposium*, Quebec, Canada, pp. 4370-4373, 2014.
5) C. Shen, E. W. Gill, W. Huang, "HF Radar Cross Sections of Swell Contaminated Seas for a Pulsed Waveform", *IET Radar Sonar Navig.*, vol. 8, no. 4, pp. 382-395, 2014.
6) C. Shen, W. Huang, E. W. Gill, "The derivation of high frequency radar cross sections for swell contaminated seas", *IEEE International Geoscience and Remote Sensing Symposium*, Melbourne, Australia, 2013.

7) C. Shen, E. W. Gill, and W. Huang, "Extraction of Swell Parameters from Simulated Noisy HF Radar Signals", *IEEE RadarCon'13*, Ottawa, Canada, 2013.
8) C. Shen, E. W. Gill, and W. Huang, "Simulation of HF Radar Cross Sections for Swell Contaminated Seas", *Oceans'12 MTS/IEEE*, Hampton Roads, USA, 2012.
9) C. Shen, E. W. Gill, W. Huang, "The shallow water HF radar cross sections for swell contaminated seas", *IEEE NECEC Conference*, Newfoundland, Canada, 2012.
10) S. Chen, W. Huang, C. Shen, "Lessons learned from multi-clock designing of SpaceWire interface", *IEEE NECEC Conference*, Newfoundland, Canada, 2011.

4. ***Award***

- Fellow of School of Graduate Studies