
Yazan Hejazin

Education

Ph.D in Electrical Engineering May 2015
University of Central Florida
Orlando, FL

Master of Science in Electrical Engineering May 2012
University of Central Florida
Orlando, FL

Bachelor of Science in Communication Engineering May 2010
Princess Sumaya University for Technology
Amman, Jordan

Relevant Experience

Graduate Research Assistant May 2010 – Present
University of Central Florida,
Central Florida Remote Sensing Laboratory
Orlando, FL

Microwave Remote Sensing

- Development of an ocean roughness correction algorithm for the Aquarius Instrument provided by NASA to measure the global ocean salinity
- Calibration and validation of the MicroWave Radiometer instrument provided by the Argentinean Space Agency (COANE) to provide ancillary data for the Aquarius Instrument
- Improvement of the Wind Speed retrieval algorithm for the MicroWave Radiometer provided by the Argentinean Space Agency (CONAE)
- Development of brightness temperature correction algorithm for the Hurricane Imaging Radiometer (HIRAD) instrument provided by NASA
- Designing, building and testing RF and Microwave systems mainly; Dicke Switch Radiometers and Microwave Radars
- Microwave hardware calibration

Teacher Assistant Aug 2010 – Aug 2014
University of Central Florida
Orlando, FL

- Microwave Radar and Radiometric Remote Sensing Class
- Satellite Communication Class

Summary of Qualifications

- Matlab
 - System Tool Kit (STK)
 - Table Curve 2D
 - Advanced Design System (ADS)
 - High Frequency Structural Simulator (HFSS)
 - AutoCad
 - Microwave Remote Sensing and Radars
 - HSPICE
 - Spectrum Analyzer, Signal Generator, Network analyzer
 - LabView
 - Microsoft Office
 - Languages
 - English – Excellent
 - Arabic – Excellent
 - French – Good
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List of Publications

Journal of Geophysical Research – Journal

1. Santos-Garcia, A., M. M. Jacob, W. L. Jones, W. E. Asher, **Y. Hejazin**, H. Ebrahimi, and M. Rabolli (2014), Investigation of rain effects on Aquarius Sea Surface Salinity measurements, *J. Geophys. Res. Oceans*, 119

South East Conference – Conference

2. Ghazi, Z.; Biswas, S.; Jones, L.; **Hejazin, Y.**; Jacob, M.M., "On-orbit signal processing procedure for determining Microwave Radiometer non-linearity," Southeastcon, 2013 Proceedings of IEEE , vol., no., pp.1,5, 4-7 April 2013

International Geoscience and Remote Sensing Symposium - Conference

3. Jones, W.L.; **Hejazin, Y.**; El-Nimri, S., "Sea surface salinity roughness correction at L-band for Aquarius instrument," Geoscience and Remote Sensing Symposium (IGARSS), 2013 IEEE International , vol., no., pp.660,663, 21-26 July 2013

Microwave Radiometry and Remote Sensing of the Environment - Conference

4. Santos-Garcia, A.; Ebrahimi, H.; **Hejazin, Y.**; Jacob, M.M.; Jones, L.; Asher, W.E., "Application of the AQ rain accumulation product for investigation of rain effects on AQ Sea Surface Salinity measurements," Microwave Radiometry and Remote Sensing of the Environment (MicroRad), 2014 13th Specialist Meeting on , vol., no., pp.72,77, 24-27 March 2014
5. **Hejazin, Y.**; Jones, W.L.; El-Nimri, S., "A roughness correction algorithm for aquarius using MWR," Microwave Radiometry and Remote Sensing of the Environment (MicroRad), 2014 13th Specialist Meeting on , vol., no., pp.44,48, 24-27 March 2014

Ocean's 2012 - Conference

6. Aslebagh, S.; **Hejazin, Y.**; Jones, W.L.; May, C.; Gonzalez, R., "An oceanic rain flag for Aquarius," *Oceans*, 2012 , vol., no., pp.1,4, 14-19 Oct. 2012
7. **Hejazin, Y.**; Aslebagh, S.; Jones, W.L., "Aquarius/SAC-D MicroWave Radiometer ocean wind speed measurements," *Oceans*, 2012 , vol., no., pp.1,4, 14-19 Oct. 2012
8. **Hejazin, Y.**; Jones, W.L.; El-Nimri, S., "An ocean roughness correction algorithm for retrieving salinity on Aquarius," *Oceans*, 2012 , vol., no., pp.1,3, 14-19 Oct. 2012

American Geophysical Union - Conference

9. Heredia, S. D., Jones L., **Hejazin Y.**, Masuelli S., Jacob M. M., "Water Vapor and Rain Rate Retrievals Algorithms – Validation", AGU Fall Meeting, 2012
10. Jones L., **Hejazin Y.**, Rabolli M., "Improved Sea Surface Salinity Retrievals using Ancillary data for Aquarius Ocean Roughness Correction", AGU Fall Meeting, 2012
11. **Hejazin Y.**, Jones L. El-Nimri S., "Development of a L-band ocean emissivity electromagnetic model using observations from the Aquarius Radiometer", AGU Fall Meeting, 2012
12. Tauro C., Etala P., Echevarría P., **Hejazin Y.**, Jacob M. M., Jones L., "Results and validation of marine surface wind speed obtained from SAC-D/Aquarius MWR", AGU Fall Meeting , 2012
13. Jones L. Gallo J., Rocca D., Rabolli M., Madero F., Kuba J., Masuelli S., Heredia S. D., Biswas S. K., **Hejazin Y.**, "First Results from the Microwave Radiometer (MWR) on Aquarius/SAC-D", AGU Fall Meeting, 2011

Professional Development and Leadership

- IEEE Member 2006 - Present
- **President of the student Council** 2009
Princess Sumaya University for Technology
Amman, Jordan