

## **Dr. Hong-Zhi Song**

Texas A&M University-Corpus Christi  
Science & Engineering, Computing Sciences

Office: Engineering Building 316P, Office Phone: (361) 825-3198, Email: hongzhi.song@tamucc.edu

### **Education**

PhD, Texas A&M University-Corpus Christi, 2013.

BS, Texas A&M University-Corpus Christi, 2009.

### **Licensures and Certifications**

Certificate of Course Design and Development, Office of Distance Education and Learning Technologies. (2015 - Present).

Certificate of Course Delivery and Peer-Review, Office of Distance Education and Learning Technologies. (2015 - Present).

Certificate of Professional Development in Best Practices for Online Course Design, Office of Distance Education and Learning Technologies. (2014 - Present).

Certified Geographic Information Systems Professional (GISP), GIS Certification Institute. (2015 - 2020).

### **Professional Employment**

Instructor, Texas A&M University-Corpus Christi. (September 2013 - Present).

Graduate Research Assistant, Texas A&M University-Corpus Christi. (September 2009 - August 2013).

### **Professional Memberships**

American Geophysical Union  
Geospatial Information & Technology Association  
Urban and Regional Information Systems Association  
Association for the Sciences of Limnology and Oceanography  
Sigma Xi Research Society

## **TEACHING**

### **Teaching Experience**

COSC 1315, COMPUTER LITERACY  
COSC 1330, PROG SCIENTISTS,ENGINEERS&MATH  
GISC 3300, GEOSPATIAL MATHEMATICAL TECHNI  
GISC 3325, GEODETIC SCIENCE  
GISC 4340, GEOSPATIAL COMPTNS&ADJSTMTS  
GSEN 5355, DESIGN-ANALYS GIS APPLICATIONS  
MATH 1316, TRIGONOMETRY  
MATH 1442, STATISTICS FOR LIFE  
MATH 2312, PRECALCULUS  
MATH 2413, CALCULUS I  
MATH 398, INTRODUCTION TO ALGEBRA  
MATH 399, INTERMEDIATE ALGEBRA

## Teaching Awards and Honors

Project Grad funds, Office of Distance Education and Learning Technologies. (2016).

## SCHOLARLY AND CREATIVE ACTIVITIES

### Publications

#### Refereed

##### Conference Proceedings

Song, H.-Z., Sadovski, A. L., Jeffress, G. A. (2013). *Kriging of Airborne Gravity Data in the Coastal Areas of the Gulf of Mexico* (vol. 1, pp. 63-67). *Journal of Applied Mathematics and Physics*.

Song, H.-Z., Sadovski, A. L. (2011). Evaluation of Downward Corrections of Gravitational Free-air Anomalies to Evaluate Geoid in Coastal Areas. *Proceedings 2011 World Congress on Engineering and Technology*. (vol. 5, pp. 676-679). Shanghai: IEEE Press.

##### Journal Articles

Song, H.-Z., Sadovski, A. L., Jeffress, G. A. (2015). Precision of Geoid Approximation and Geostatistics: How to find continuous map of absolute gravity data. *Revista de Matematica: Teoria y Aplicaciones*.

Song, H.-Z., Sadovski, A. L., Jeffress, G. A. (2013). Kriging of Airborne Gravity data in the Coastal Areas of the Gulf of Mexico. *Journal of Applied Mathematics and Physics*(4), 63-67.

Song, H.-Z., Sadovski, A. L., Jeffress, G. A. (2013). Sea Level Rise and the Geoid: Factor Analysis Approach. *Revista de Matematica: Teoria y Aplicaciones*, 20(2), 65-80.

### Presentations

Sadovski, A. L., Song, H.-Z., Jeffress, G. A., "Sea level rise and Geoid: Factor analysis approach," UNESCO Our Common Future, UNESCO, Paris, France. (July 7, 2015).

Song, H.-Z., Sadovski, A. L., Jeffress, G. A., "Precision of Geoid Approximation and Geostatistics: How to Find Continuous Gravity Map," International Conference SIMMAC XIX, University of Costa Rica, San Jose, Costa Rica. (February 26, 2014).

Song, H.-Z. (Author), Sadovski, A. L. (Author & Presenter), Jeffress, G. A., "Kriging of Airborne Gravity Data in the Coastal Areas of the Gulf of Mexico," CET 2013 : World Congress on Engineering and Technology, IEEE, Sanyo, China. (October 26, 2013).

SONG, H. (Presenter), "Change in Sea Level and Its Impacts on Marshes," ASLO, ASLO, New Orleans, Louisiana. (February 2013).

Song, H.-Z. (Presenter), "Spatial Interpolation of Gravity Data by Using Different Kriging Models," South Texas Mathematics Consortium, Texas A&M University-Corpus Christi. (March 24, 2012).

Sadovski, A. L. (Author & Presenter), Jeffress, G. A. (Author), Song, H.-Z., "Geoid and Sea Level Rise: Application of Factor Analysis to Local and Global Data of Mean Sea Level Rise," XVIII

International Symposium on Mathematical methods Applied to Sciences, University of Costa Rica, San Jose, Costa Rica. (February 22, 2012).

Song, H.-Z. (Author), Sadovski, A. L. (Author & Presenter), "EVALUATION OF DOWNWARD CORRECTIONS OF GRAVITATIONAL FREE-AIR ANOMALIES TO EVALUATE GEOID IN COASTAL AREAS," 2011 World Congress on Engineering and Technology, IEEE, Shanghai, China. (2011).

Sadovski, A. L., Song, H.-Z., "Geoid and Sea Level Rise: Impact on Coastal Areas," BIT's 1st World Congress of Environmental Biotechnology-2011, International Research Center of International Talent, BIT, Dalian, China. (October 21, 2011).

Sadovski, A. L. (Author & Presenter), Jeffress, G. A. (Author), Song, H.-Z. (Author), "On Some Models of the Equipotential Gravity Surfaces in the Coastal Areas," SIAM Conference on Mathematical and Computational Issues in Geosciences, SIAM, Leipzig, Germany. (June 17, 2009).

## **SERVICE**

### **University**

Conference-Related, Community Outreach Council. (November 2014 - August 2017).

### **Professional**

Reviewer, Journal Article, Physical Science International Journal. (2015 - Present).

Reviewer, Journal Article, Advances in Research (ScienceDomain International). (2014 - Present).

Reviewer, Journal Article, Revista de Matemática: Teoría y Aplicaciones (International Journal of Mathematics: Theory and Applications). (2014 - Present).

Reviewer, Conference Paper, Consortium for Computing Science in Colleges of South Central Conference. (2013 - Present).

Judge, Conrad Spirit of Innovation Challenge. (2016 - 2017).

Judge, Conrad Spirit of Innovation Challenge. (January 2016 - April 2016).

Judge, Sigma Xi Student Research Showcase. (March 2015).