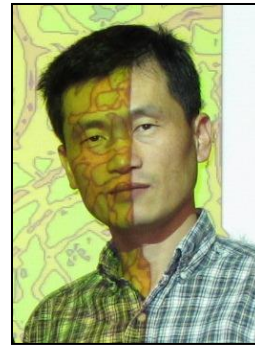


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## EDUCATION

- ◆ 1999 Ph.D., Department of Geography, University of Georgia, Athens, Georgia. Title - *"Multi-temporal Integrated Global GIS Databases and Land Cover Dynamics: Asia, 1982-1994"* Advisor – Dr. E. Lynn Usery.
- ◆ 1994 M.A., Department of Geography, Seoul National University, Seoul, Korea. Title - *"The Accuracy of the National Topographic Maps as Geographic Information Systems Data Sources"* Advisor – Dr. K. B. Yu.
- ◆ 1988 B.A., Department of Geography, Seoul National University, Seoul, Korea.  
Economic Geography Major. Business Administration Minor. Social Science Teacher License. ROTC.

## APPOINTMENTS

- ◆ 2011 - Professor. Tenured. Department of Geosciences, University of West Georgia
- ◆ 2006 - Associate Prof. Dept. of Geosciences, University of West Georgia.
- ◆ 2008 - **Director, GeorgiaView Consortium.**
- ◆ 2008 - **Director, GIS Certificate Program** at UWG
- ◆ 1999 - 2006 Assistant/Associate Prof. Dept. of Geography, Northern Michigan University.
- ◆ 1999 Software Programming Engineer. ERDAS, Inc., Development of Landsat L7A Importer for ERDAS Imagine™, Version 8.3. Atlanta, GA.
- ◆ 1994 – 1995 Visiting GIS Researcher, Seoul Development Institute, Seoul Korea. Topic: *"A Study on the Implementation of GIS for the Seoul City Government"* and *"Comprehensive Public Information System Plan for Seoul Metropolitan Government."*

## AREAS OF INTEREST

- ◆ Geospatial Technologies, Environmental & Medical Geography

## COURSES TEACH/TAUGHT

- ◆ GIS Database Design
- ◆ GIS Programming & Customization
- ◆ Introduction to GIS and Mapping Science (GEOG 2553). This is a science course in Core Area D.
- ◆ Geographic Information systems
- ◆ Advanced GIS and Spatial Analysis
- ◆ Computer Cartography
- ◆ Remote Sensing
- ◆ Image Processing
- ◆ Airphoto Interpretation and Photogrammetry

- Landform Geography (GEOG 1113). This is a science course in Core Area D.
- Introduction to Geographical Analysis

### **PEER REVIEWED ARTICLES**

1. 2015. **Jeong C. Seong**. Sun Position Calculator (SPC) for Landsat Imagery with Geodetic Latitudes. *Computers & Geosciences* 85 (2015) pp. 68-74.
2. 2013. Rose S, **Seong J**, Ogle J, Butte E, Indridason J, Hall J, Nelson S, Jones T, Humphry J. Challenges and Lessons from a Wetland LiDAR Project: A Case Study of the Okefenokee Swamp, Georgia, USA. *Geocarto International*, 28(3): 210-226, June 2013.
3. 2012. Kim M, Chang S, **Seong J**, Holt J, Park T, Ko J, Croft J. Road Traffic Noise: Annoyance, Sleep Disturbance, and Public Health Implications. *American Journal of Preventive Medicine*. 43(4): 353-360.
4. 2012. Naqi S, Kazmi S, **Seong J**. Natural Gas Demand and Supply Modeling with Geospatial Technologies. *International Journal of Energy Sector Management* 6(3):365-380.
5. 2011. **Jeong C. Seong**, Tae H. Park, Joon H. Ko, Seo I. Chang, Minho Kim, James B. Holt, and Mohammed R. Mehdi. Modeling of Road Traffic Noise and Estimated Human Exposure in Fulton County, Georgia, USA. *Environment International* 37: 1336-1341.
6. 2011. Mohammed Raza Mehdi, Minho Kim, **Jeong C. Seong** and Mudassar Hassan Arsalan. Spatio-temporal patterns of road traffic noise pollution in Karachi, Pakistan. *Environment International* 37 (2011) 97–104.
7. 2011. Ko, J.H., Chang, S.I., Kim, M., Holt, J., **Seong, J.C.**, Transportation Noise and Exposed Population of an Urban Area in the Republic of Korea. *Environment International*. 37 (2011) 328–334.
8. 2011. **Jeong C. Seong**, Habtewold Kassa, David Choi. Modeling and Mapping Traffic-Congested Corridors for Statewide Decision Support. *Advances in Cartography and GIScience Volume 2 - Selection from ICC 2011, Paris*. Anne Ruas (Editor). pp.449-456. Springer. 2011. (Book Chapter).
9. Loope, H.M., Loope, W.L., Goble, R.J., Fisher, T.G., Jol, H.M., **Seong, J.C.**, 2010. Early Holocene dune activity linked with final destruction of Glacial Lake Minong, eastern Upper Michigan, USA. *Quaternary Research*, 74:73-81.
10. **Seong, J.C.**, 2009. Characteristics of U.S. Geospatial Industry and Its Prospects. *Proceedings of The 13th International Seminar on GIS*, pp.1-15. KINTEX, Seoul, South Korea.
11. **Seong, J.C.**, J. Choi, Y.S. Choi, and H. Yoon, 2008. Applications of Point-to-Point Distances with Regional and Global Datasets. *Geographic Information Science and Remote Sensing*, 45(3): 369-376.
12. Choi, J., and **J.C. Seong**, 2008. Length-Preserving Thinning Algorithm for Line Extraction from Land Cover Data. *Cartographica*, 43(4): 257-266.
13. Choi, J., **Seong, J.C.**, Kim, B., and Usery, E.L., 2008. Innovations in Individual Feature History Management - the significance of Feature-based Temporal Model. *Geoinformatica*, 12: 1-12.
14. **Seong, J.C.** and Choi, J., 2007. GEODIST: A C++ program for calculating geodesic distances with a shapefile. *Computers & Geosciences*, 33(5): 705-708.  
<http://dx.doi.org/10.1016/j.cageo.2006.09.005>.
15. **Seong J.C.** 2005. Assessing Resampling Accuracy of Categorical Data Using Random Points. *Cartography and Geographic Information Science*, 32(4):393-400.  
[http://www.cartogis.org/docs/journal/2005\\_abstracts.pdf](http://www.cartogis.org/docs/journal/2005_abstracts.pdf).
16. **Seong, J. C.** 2005. Implementation of an Equal-area Gridding Method for Global-scale Image Archiving. *Photogrammetric Engineering and Remote Sensing*, 71(5): 623-627.

17. **Seong, J.C.** 2003. Modeling the accuracy of image data reprojection. *International Journal of Remote Sensing*, 24(11): 2309-2321.
18. Park, E. J., **Seong, J. C.**, and Hwang, C. S., 2003. A study of drought susceptibility on cropland using Landsat ETM+ imagery. *Korean Journal of Remote Sensing*, 19(2): 107-115.
19. Park, E. J., Hwang, C. S., **Seong, J.C.**, 2002. The analysis of drought susceptibility using soil moisture information and spatial factors involved in satellite imagery. *The Journal of GIS Association of Korea*, 10: 481-492.
20. **Seong, J.C.**, Mulcahy, K.A., and Userly, E.L., 2002. The Sinusoidal Projection: A New Importance in Relation to Global Image Data. *The Professional Geographer*, 54(2): 218-225.
21. **Seong, J.C.**, and Lucas, A.C., 2002. Characterizing Human Impacts on Wetlands Using Satellite Imagery at Seney, Michigan, USA. *The Geographical Journal of Korea*, 36(1): 51-61.
22. **Seong, J. C.**, and Userly, E. L., 2001. Assessing Raster Representation Accuracy Using a Scale Factor Model. *Photogrammetric Engineering and Remote Sensing*, 67(10):1185-1191.
23. Userly, E. L., and **Seong, J. C.**, 2001. All Equal-Area Map Projections Are Created Equal, but Some Are More Equal than Others. *Cartography and Geographic Information Systems*, 28(3):183-193.
24. **Seong, J. C.**, and Userly, E. L., 2001. Fuzzy Image Classification for Continental-scale Multi-temporal NDVI Series Using Invariant Pixels and Image Stratification Method. *Photogrammetric Engineering and Remote Sensing*, 67(3): 287-294.
25. **Seong, J. C.** 2001. Implications of NDVI Changes for Large-area Land Cover Monitoring, Asia, 1983-1994. *Journal of Geography Education* 43:137-151.
26. **Seong, J. C.** 2001. Development of GIS Databases and Applications on the WWW for the Upper Peninsula, Michigan. *Michigan Academician*, XXXIII (3): 243-252.
27. Ock, H. S., Kim, C. H., and **Seong, J. C.**, 2000. An Urban GIS Database Model for an Integrated Land and Building Property Management. *Michigan Academician*, XXXII: 421-437.
28. **Seong, J. C.** 2000. Land Cover Change: Regional Context, Asia, 1983-1994. *Journal of Korean Association of Geographic Information Systems*, 3(2): 37-51.
29. **Seong, J. C.** 2000. Characteristics and Application of Large-area Multi-temporal Remote Sensing Data. *Korean Journal of Remote Sensing*, 16(1): 1-11.
30. **Seong, J.C.** 2000. Multi-temporal NDVI Change Patterns and Global Land Cover Dynamics. *Journal of Korean Association of Geographic Information Systems*, 3(3):20-30.

#### **PROFESSIONAL ASSOCIATIONS**

- ◆ Association of American Geographers (AAG) (Since 1997)
- ◆ Cartography and Geographic Information Science. Associate Editor. Since 2008.
- ◆ American Society for Photogrammetry and Remote Sensing (ASPRS) (Since 1997)
- ◆ Korean-American Scientists and Engineers Association (KSEA) - Georgia Chapter. Chair, Membership Committee. Since 2010.
- ◆ Korean-American Association for Geospatial & Environmental Sciences (KAGES). Since 2009.
- ◆ Geographic Information and Technology Association (GITA) (Since 2009)
- ◆ Cartography and Geographic Information Science (CAGIS) (Since 2008)

#### **CONNECTION TO COMMUNITY**

- ♦ 2015 US-Korea Conference on Science, Technology and Entrepreneurship, Atlanta Georgia. Dr. Seong participated in the conference as a local organizing committee member. 7/29-8/1, 2015.
- ♦ Rotorworks LLC, Dallas GA. Rotorworks is a LiDAR surveying company. On 2/28/2014, Dr. Seong hosted a one-day workshop for developing undergraduate student internships.
- ♦ S-Nelson & Associates. Dallas, GA. S-Nelson & Associates is a surveying and mapping company. Dr. Seong worked with the company for the 2010-2011 Okefenokee Swamp LiDAR project (funded), and developed a proposal (unfunded) for the LiDAR survey of the Douglas County, GA.
- ♦ Georgia Department of Transportation. Dr. Seong has worked with GDOT for many years particularly for teaching GIS and planning road traffic/capacity.
- ♦ CDC. Dr. Seong has worked with The Centers for Disease Control and Prevention for many years. Dr. Seong's partner has been the Community Health department.
- ♦ Atlanta Regional Commission (ARC). Dr. Seong's has worked with ARC regarding road traffic noise and air quality.
- ♦ Georgia DNR. Dr. Seong has worked with GA EPD.
- ♦ Local High Schools. Dr. Seong hosted science workshops, summer internships, and various events regarding mapping science, remote sensing, and GIS. Students from Mt. Zion, Carrollton Central, and Newnan Performance Learning Center have joined the programs.

## **GRANTS**

- ♦ 2016-2017 (Funded). Seong, J.C. (PI), StateView Program Development and Operations for the State of Georgia. Sponsored by AmericaView. \$24,000.
- ♦ 2015-2016 (Funded). Seong, J.C. (PI), StateView Program Development and Operations for the State of Georgia. Sponsored by AmericaView. \$24,000.
- ♦ 2014-2015 (Funded). Seong, J.C. (PI), StateView Program Development and Operations for the State of Georgia. Sponsored by AmericaView. \$24,000.
- ♦ Dr. Seong sponsored the UWG LSAMP program for undergraduate student research (Sesame Bowers and Zach Little).
- ♦ 2013-2014 (Funded). Seong, J.C. (PI), StateView Program Development and Operations for the State of Georgia. Sponsored by AmericaView. \$24,000.
- ♦ 2008-2013 (Funded). Seong, J.C. (PI), StateView Program Development and Operations for the State of Georgia. Sponsored by AmericaView. \$142,000.
- ♦ 2006-2012 (Funded). Seong, J. C., "Development of Geo-spatial Applications with PG-STEAMER," Sponsored by Pixoneer Geomatics, Inc., \$80,700.
- ♦ 2010-2011 (Funded). Seong, J.C. (PI) and Rose, S. (Co-PI). Extending the Lidar Project of Coastal Regional Commission of Georgia to Okefenokee National Wildlife Refuge. \$491,213. Funded by the U.S. Geological Survey.
- ♦ 2010 (Funded). Seong J.C. (PI), Development of StateView Database Applications. Sponsored by AmericaView. \$10,000.
- ♦ 2009 (Funded). UWG SRAP.
- ♦ 2007-2008 (Funded). Seong, J. C. (Principal) and Dodge, R., "Online Remote Sensing Course Development," Sponsored by AmericaView, \$30,000.
- ♦ 2006-2007 (Funded). UWG Faculty Research Grant.
- ♦ 2000-2002. (Funded). "Methods to Achieve Accurate Projection of Regional and Global Raster Databases". \$93,126. Sponsored by the US Geological Survey.

## **AWARDS**

- ◆ 2001. ERDAS Best Science Paper in Remote Sensing Award.
- ◆ 2011. UWG College of Science and Math (COSM) Excellence in Research Award.

## **PRESENTATIONS (Recent)**

- ◆ 2016. Seong, J.C., Sun Position Calculator (SPC) for Landsat Imagery. AAG 2016 at San Francisco, CA.
- ◆ 2015. Seong, J.C., Sun Position Calculator (SPC) for Landsat Imagery. AV FTM 2015 at USGS EROS Data Center, Sioux Falls, SD. 10/22-23/2015.
- ◆ 2015. Seong, J.C., AVUNIV - An Online Remote Sensing Course. Association of American Geographers 2014 Annual Conference, Chicago, IL. 2014-APR-24.
- ◆ 2014. Seong, J.C., Development of an ArcGIS Application for Solar Zenith Angle Calculation. Association of American Geographers 2014 Annual Conference, Tampa, FL. 2014-APR-11.
- ◆ 2013. Seong, J.C., Park, T.H., Chang, S.I., Kim, M., and Ko, J.H., Road Traffic Noise and Human Health. Association of American Geographers 2013 Annual Conference, Los Angeles, CA. 2013-APR-11.
- ◆ 2013. Seong, J.C., A Study on Archiving Global-Scale Image Datasets Most Accurately and Efficiently. 2013/10/11 KSRIS Conference. ChonAn, South Korea.
- ◆ 2012. Seong, J.C., Ogle, J., Tripp, C., and Gubran, Z., Urban Heat Islands and the Importance of Green Spaces in Metro Atlanta, Georgia. International Symposium on Remote Sensing, Songdo, South Korea. 2012-OCT-10\_12.
- ◆ 2012. Seong, J.C., Mapping Noise and Health Implications. COSM Dean's Research Seminar Series, UWG, Carrollton, GA. 2012-NOV-2.
- ◆ 2010. Jeong Chang Seong, Joon Hee Ko, Seo Il Chang, Tae Ho Park, Minho Kim, James Holt and Mohammed Mehdi. Modeling and Visualization of Traffic Noise with Its Implications to Community Health: Fulton County Case. ASPRS-CAGIS Joint Conference. Orlando, FL. 2010/11/17.
- ◆ 2010. Jeong C. Seong and Shea Rose. Experience from the LiDAR Project of Okefenokee National Wildlife Refuge. AmericaView Fall Technical Meeting. Madison, WI. 2010/10/11.
- ◆ 2010. Mohammed R. Mehdi and Jeong C. Seong. Use of Radar Imagery for Investigating Urban Land Cover Changes through Angle Method. ASPRS. San Diego, CA. 2010/04/27.
- ◆ 2010. Jeong C. Seong. AmericaView University: Teaching Remote Sensing via Online. UWG STEM Conference. 2010/02/19.

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