Hoeyun Kwon

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Research Interests

Geographic Information Science, Spatio-Temporal Data Mining, Big Data and Social Media Analytics, Natural Language Processing, Natural Hazards

Education

Ph.D. Student   **August 2018 – Present**
Department of Geographical and Sustainability Sciences
The University of Iowa, Iowa City, IA, USA

Master of Arts in Geography   **February 2016**
Ewha Womans University, Seoul, South Korea

Thesis: A study on the risk analysis and applicability of SNS data for detecting signs of disaster
Advisor: Dr. Youngok Kang

Bachelor of Arts in Geography Education   **February 2014**
Ewha Womans University, Seoul, South Korea

Employment

Graduate Teaching Assistant   **August 2018 – Present**
The University of Iowa

- GEOG 1050 Foundations of GIS (Fall 2019, Spring 2020)

Researcher   **January 2016 – July 2018**
Spatial Information Industry Promotion Institute of Korea, Seongnam, South Korea

Graduate Research Assistant   **March 2014 – January 2016**
Ewha Womans University

Publications

[6]   **Kwon, H.,** & Kang, Y. (2016). Risk analysis and visualization for detecting signs of flood disaster in Twitter. *Spatial information research*, 24(2), 127-139. https://doi.org/10.1007/s41324-016-0014-1

Publications in Korean

[5]   Seok, S., **Kwon, H.**, Song, K., Lee, H., & Hwang, J.   (2017). Development of GIS-based RCPI (Regional Crime Prevention Index) to support crime prevention activities in urban environments. *Journal of Korea Society of Computer and Information*, 22(1), 41-48. https://doi.org/10.9708/jksci.2017.22.01.041

[4]   **Kwon, H.**, Song, K., Seok, S., Jang, H., & Hwang, J. (2016). Development of social map prototype for intelligent crime prevention based on geospatial information. *Journal of Korea*

Society of Computer and Information, 21(8), 49-55.
https://doi.org/10.9708/jksci.2016.21.8.049

[3]   Song, K., Seok, S., **Kwon, H.**, & Hwang, J. (2016). A study on the improvement of 'Geospatial Information Open Platform' for geospatial information convergence industry. *Journal of Korea Society of Computer and Information*, 21(7), 31-38.
https://doi.org/10.9708/jksci.2016.21.7.031

[2]   Kang, Y., & **Kwon, H**. (2015). User requirements analysis for vitalization of Open-source GIS software in Korea. *Journal of Korea Spatial Information Society*, 23(6), 99-107.
https://doi.org/10.12672/ksis.2015.23.6.099

[1]   Kang, Y., Kang, A., & **Kwon, H**. (2014). An analysis of Open-source GIS software ecosystem in Korea. *Journal of Korea Spatial Information Society*, 22(6), 67-79.
https://doi.org/10.12672/ksis.2014.22.6.067

Presentations (The presenter is underlined)

[12]   **<u>Kwon, H.</u>** & Koylu, C. (April 2019). Empirical evaluation of parameters and models for extracting topics from geo-tagged social media data. *AAG Annual Meeting, Social Media and Big Data II,* Washington D.C.

[11]   <u>Zhang, B.</u>, Koylu, C., Oberlin, K., Eckstein, B., & **Kwon, H.** (April 2019). Climate change or natural cycle? Not sure, but it gets 2 hot and 2 cold 4 sure, *AAG Annual Meeting, Symposium on Frontiers in Geospatial Data Science: Synergizing Geospatial Data Science with Domain Applications I: Climate Science*, Washington D.C.

[10]   <u>Lee, S.</u>, **Kwon, H.**, Song, K., Lee, S., & Hwang, J. (November 2018). A Study on the Development of Value Index for Decision Support of Crime Prevention Policy - A Case Study of Park Crime Safety. *The Korean Society for Geospatial Information Science*, Jeju, South Korea

[9]   Hwang, J., Song, K., **<u>Kwon, H.</u>**, Lee, S., & Choi, H. (October 2017). Development of R&D roadmap for vitalizing geospatial information convergence industry of Korea. *The Korea Spatial Information Society*, Jeonju, South Korea.

[8]   **<u>Kwon, H.</u>**, Song, K., Seok, S., & Hwang, J. (June 2017). A study on geospatial information convergence research trends using Knowledge Map. *The Korea Spatial Information Society*, Seoul, South Korea.

[7]   <u>Seok, S.</u>, **Kwon, H.**, Song, K., Lee, H., & Hwang, J. (April 2017). Development of RCPI (Regional Crime Prevention Index) for decision support of crime prevention policy. *The Korean Society for Surveying, Geodesy, Photogrammetry, and Cartography*, Yeosu, South Korea.

[6]   **<u>Kwon, H.</u>**, & Kang, Y. (June 2016). Risk analysis and visualization for detecting signs of flood disaster in Twitter. *The Korean Geographical Society*, Seoul, South Korea.

[5]   **<u>Kwon, H.</u>**, & Kang, Y. (June 2016). Location inference and risk analysis of flood-related Tweets. *The Korea Spatial Information Society*, Anyang, South Korea.

[4]   <u>Seok, S.</u>, **Kwon, H.**, Song, K., & Hwang, J. (June 2016). Standardization of underground shopping center addresses for disaster response and an integrated use of indoor spatial information. *The Korea Spatial Information Society*, Anyang, South Korea.

[3]   **<u>Kwon, H.</u>**, Song, K., Seok, S., & Hwang, J. (May 2016). A study on the policies for vitalizing geospatial information convergence. *The Korean Society for Geospatial Information Science*,

Jeju, South Korea.

[2] **Kwon, H.**, Song, K., Seok, S., Kim, B., & Hwang, J. (May 2016). A study on the emerging technology of geospatial information convergence. *The Korean Society for Geospatial Information Science*, Jeju, South Korea.

[1] Seok, S., Song, K., **Kwon, H.**, & Hwang, J. (April 2016). A study on the classification of geospatial information convergence industry. *The Korean Society for Surveying, Geodesy, Photogrammetry, and Cartography*, Suwon, South Korea.

Honors and Awards

Most Cited Paper Award (Kwon and Kang, 2016) The Korea Spatial Informational Society	May 2019
Open-source Geospatial Platform Use Case Contest 1st Prize ($200) Korea Research Institute for Human Settlements	November 2015
Scholarship Program for Talented Graduate Students ($24,000) Ministry of Land, Infrastructure and Transport, Korea	2014 – 2015
University Fellowship ($25,400) Ewha Womans University	2014 – 2015
Honors Scholarship ($1,000) Ewha Womans University	2013

Certificate

Certified Middle/High School Teacher in Geography (Issued by the Ministry of Education, Korea)	2014

Programming and Software Skills

Python, Java, SQL, R, Weka, ArcGIS, QGIS