

# Hanall Sung

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## EDUCATION

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**University of Wisconsin – Madison** **WI, USA**  
*Doctor of Philosophy in Learning Sciences* Sept 2017 – In progress

**Ewha Womans University** **Seoul, Korea**  
*Master of Art in Educational Technology* Sept 2014 – Sept 2016

- **Thesis Research:** Development of Prediction model for Learning Achievement with Utilizing Test Anxiety, Behavioral Log and Psychological Response in Video-Based Learning Environment

**Ewha Womans University** **Seoul, Korea**  
*Bachelor of Art in Educational Technology* Mar 2009 – Aug 2014

**New York State University - Stony Brook** **NY, USA**  
*Exchange student program* Jan 2012 – Dec 2012

## HONORS & AWARDS

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University of Wisconsin – Madison **WI, USA**  
Graduate School Fellowship Aug 2017 – May 2018

Ewha Womans University **Seoul, Korea**  
Excellent Degree Award Sept 2016

3<sup>rd</sup> Dubai International Conference in Higher Education **Dubai, UAE**  
Highly Commended Poster Presentation Award Feb 2015

49<sup>th</sup> Educational Technology Exhibition and Conference (ETEC) **Seoul, Korea**  
Certificate for Excellent Work Mar 2015

E-learning Korea 2014 Conference **Seoul, Korea**  
E-learning Korea 2014 Golden Prize in Best Paper Award Sept 2014

The design of the Web 2.0 Wikibook with Purdue University **Purdue University, USA**  
Certificate for Active Participation Dec 2009

## RESEARCH EXPERIENCE

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**University of Wisconsin – Madison** **WI, USA**  
*Project Assistant* Aug 2017 – July 2019

- Participated in Assessing Complex Collaborative STEM Learning at Scale with Epistemic Network Analysis Project
- Conducted error analysis in using automated transcription data for Epistemic Network Analysis

**Ewha Womans University** **Seoul, Korea**

*Research Assistant at Korea Research Foundation* Sept 2015 – Aug 2016

- Participated in Development of Customized Flipped Learning Design Model based on Big Data Analytics: On a Middle School Math Curriculum
- Collected students' multiple data streams through online education system by employing wearable device
- Developed a model that predicts one's learning achievement by making a link between the psychophysiological and learning behavioral data

*Department Office Assistant* Sep 2014 – Sep 2015

- Assumed administrative duties of Graduate School of Education, Graduate School, and Faculty of Science Education such as lecture schedule arrangement, human resource management and learning materials preparations
- Performed department budget management, processing and calculation
- Organized and planned various lectures including Educational Technology Exhibition and Conference

*Research Assistant at Korea Research Foundation* Sept 2014 – Aug 2015

- Participated in Development of Smart Learning Support Model for Higher Education by Utilizing Big Data
- Conducted Social Network Analysis by employing learning data on LMS (Learning Management System)
- Developed prediction model for learning achievement by utilizing time management skills of Self-regulation

**Brain Korea 21 Plus in Ewha Womans University** **Seoul, Korea**

*Research Assistant* Aug 2014 – Feb 2016

- Performed SMILE (Smart Movement for Innovation Environment) Team research tasks
- Monitored learning behaviors and analyzed big data by utilizing data mining method
- Developed indicators for formal, informal, implicit learning in smart learning environment

**National Institute for Lifelong Education** **Seoul, Korea**

*Research Assistant* Nov 2015 – Dec 2015

- Participated in Learning Analytics Design Research on K-MOOC system
- Studied with regarding to applying learning analytics to K-MOOC system

**Institute for Teaching and Learning Center in Ewha Womans University** **Seoul, Korea**

*Research Assistant* Jul 2014 – Aug 2014

- Supported digitization of teaching and learning contents for Share Campus System
- Analyzed lecture videos and divided them into smaller units according to the materials' properties and features
- Edited learning packages, translating contents and correcting typos

**Korea Productivity Center** **Seoul, Korea**

*Intern* Aug 2013 – Dec 2013

- Supported processing Human Resource Development education programs
- Conducted analysis and investigation of education demand, education satisfaction
- Conducted job application survey for managing the quality of training programs
- Took charge of Human Resource Management

## PUBLICATIONS

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### Peer-reviewed Research

- Sung, H.** & Jo, I., Park (2018). Utilizing Multimodal data to Predict Learning Achievement: Behavioral Log, Psychophysiological Response, and Test Anxiety. *Journal of Educational Technology, 24*(2), 287-308.
- Jo, I., Park, Y., Yoon, M., & **Sung, H.** (2016). Evaluation of Online Log Variables Estimating Learners' Time Management in Korean Online Learning Context. *The International Review of Research in Open and Distance Learning, 17*(1), 195-213.

### Conference Proceedings

- Nachtigall, V. & **Sung, H.** (Accepted). Students' Collaboration Patterns in a Productive Failure Setting: An Epistemic Network Analysis of Contrasting Cases. *Paper will be presented at the International Conference on Quantitative Ethnography (ICQE)*, Madison, Wisconsin.
- Sung, H.** & Shaffer, D. W. (Accepted). Understanding the entanglement in multimodal analysis: How to combine multiple data streams. *Paper will be presented at the Learning Sciences Graduate Students Conference (LSGS)*, Evanston, Illinois.
- Sung, H.**, Cao, T., Ruis, A. R., & Shaffer, D. W. (Accepted). Reading for Breadth, Reading for Depth: Understanding the Relationship between Reading and Complex Thinking using Epistemic Network Analysis. In *proceedings of the International Conference on Computer Supported Collaborative Learning (CSCL)*, Lyon.
- Wu, B., **Sung, H.**, & Shaffer, D. W. (2019). Exploring the epistemic development trajectories in jigsaw-based collaborative problem solving. In *proceedings of the American Educational Research Association (AERA)*, Toronto.
- Sung, H.**, & Shaffer, D. W. (2018). An exploratory epistemic network analysis of combining multimodal data streams to understand student learning process. *Paper presented at Learning Sciences Graduate Students Conference (LSGS)*, Nashville, Tennessee.
- Lee, H., **Sung, H.**, Yu, J., Park, Y., & Jo, I. (2015). Clustering of online students: Towards an elaborated prediction model of learning achievement. *Paper presented at E-learning Korea 2015*, Seoul.
- Lee, H., **Sung, H.**, Yu, J., Park, Y., & Jo, I. (2015). Development of Prediction Models based on the clustered online learners' behavioral patterns. *Paper presented at the International Academic Conference on Teaching, Learning and E-learning*, Budapest.
- Sung, H.**, Lee, H., Park, Y. & Jo, I. (2014). Mediating Effects of Team Activity on the Relationship between Students' Centrality and Learning Achievement in Online Discussion-based Class. *Paper presented at the International Conference of Educational Technology (ICET)*, Seoul.
- Yoo, Y., Jo, I., Park, Y., Lee, H., & **Sung, H.** (2014). Analyzing Online Discussion Activity: Using Social Network Analysis with Learning Analytics Approach. *Paper presented at the Association for Educational Communications and Technology Conference (AECT)*, Jacksonville, Florida.

Kim, J., **Sung, H.**, Park, Y., & Jo, I. (2014). Applying Learning Analytics Dashboard as a Learning Supporting tool: A Case Study of Online Statistics Class. *Paper presented at E-learning Korea 2014*, Seoul.

**Sung, H.**, Yoon, M., Park, Y., & Jo, I. (2014). Relationship of Students' Online Behavior Pattern and Their Psychological Characteristics. *Paper presented at the 12<sup>th</sup> International Conference for Media in Education*, Korea University, Seoul.

Kim, J., Lee, H., Yoo, Y., **Sung, H.**, Jo, I., & Park, Y. (2014). Towards Smart Asynchronous Discussion Activity: Using Social Network Analysis to Investigate Students' Discussion Pattern. *Paper presented at the International Conference of Smart learning Environment*, Hong Kong.

### **Research Posters**

Siebert-Evenstone, A., Eagan, B., Swiecki, Z., **Sung, H.**, Brohinsky, J., Wang, Y., Fogel, A., Shaffer, D. W. (Accepted). Zone It! A mobile application for practice- and place-based learning. *Poster will be presented at the Learning Sciences Graduate Students Conference (LSGS)*, Evanston, Illinois.

**Sung, H.**, Cao, T., Ruis, A. R., & Shaffer, D. W. (2019). An epistemic network analysis to investigate the interaction between reading and complex thinking using multimodal data. *Poster presented at UW-Madison Education Research Poster Fair*, Madison, Wisconsin.

Bhatt, H., Cao, T., **Sung, H.**, Siebert-Evenstone, A., Eagan, B., & Shaffer, D. W. (2019). Analysis of multi-modal learning data using horizon of observation ENA. *Poster presented at UW-Madison Education Research Poster Fair*, Madison, Wisconsin.

**Sung, H.**, Swiecki, Z., Wu, B., & Shaffer, D. W. (2018). Reading for breadth, reading depth: A multimodal analysis of student learning processes with Epistemic Network Analysis. *Poster presented at UW-Madison Education Research Poster Fair*, Madison, Wisconsin.

Lee, H., **Sung, H.**, Park, Y., & Jo, I. (2015). Investigation Influences of Participation, Regularity and Centrality on Learning Achievement. *Poster presented at the 3rd Dubai International Conference in Higher Education*, Dubai.

### **PRESENTATIONS**

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#### **Workshops**

Siebert-Evenstone, A., Swiecki, Z., Eagan, B., **Sung, H.**, & Shaffer, D. W. (2018). Developing and Validating Automated Discourse Codes: An introduction to nCodeR. *Workshop presented at the Learning Sciences Graduate Students Conference (LSGS)*, Nashville, Tennessee.

Eagan, B., Swiecki, Z., Mochizuki, T., Joksimović, S., Marquart, C., Misfeldt, M., **Sung, H.**, & Shaffer, D. W. (2018). Quantitative Ethnography Workshop: Applying the Tools of Quantitative Ethnography to Your Data. *Workshop presented at 13th International Conference of the Learning Sciences (ICLS)*. London.

Eagan, B., Swiecki, Z., Siebert-Evenstone, A., Herder, T., **Sung, H.**, & Shaffer, D. W. (2017). Quantitative Ethnography in R: An Introduction to rhoR and R-ENA Workshop. *Workshop presented at Learning Sciences Graduate Students Conference (LSGS)*, Bloomington, Indiana.

## **EXTRACURRICULAR ACTIVITIES**

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**Learning Sciences Graduate Student Conference 2019 at Northwestern University** IL, USA  
*Executive member* 2019

- Assisted conference preparation and execution
- Managed academic conference proceedings editing and publication

**Korean Students and Scholars Association, University of Wisconsin-Madison** WI, USA  
*President* 2018 – 2019

- Took a role as the leader, supervisor, and coordinator of all KSSA-UW activities
- Had the authority to act as a representative of the members of the KSSA-UW in dealings with UW-Madison and other external organizations in matters of general student concern

**Learning Sciences Graduate Student Conference 2018 at Vanderbilt University** TN, USA  
*Executive member* 2018

- Assisted conference preparation and execution
- Managed academic conference proceedings editing and publication

**Ewha Womans University** Seoul, Korea  
*Executive Member at Korean Society for Educational Technology* 2014 – 2017

- Participated in conferences
- Assisted editing periodic publications

*Executive member at Association for Educational Communication and Technology* 2014 – 2017

- Participated in conferences
- Assisted editing periodic publications

*Assistant administrator at Korean Society for Learning and Performance* 2014 – 2017

- Assisted conference preparation and execution
- Assisted academic journal editing and publication

**Stony Brook Vocalists at New York State University in Stony Brook** NY, USA  
*Vocalist* 2012 – 2012

- Performed at school events and regional events
- Sang solo a few times

**Status Chorus** Seoul, Korea  
*Vocalist and Choreography director* 2010 – 2011

- Performed twice a year at a theater that seats more than 300 people
- Assumed a role as a choreography director