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E-learning Korea 2014 Conference

E-learning Korea 2014 Golden Prize in Best Paper Award

EDUCATION	
University of Wisconsin - Madison	WI, USA
Doctor of Philosophy in Learning Sciences	Sep 2017 – In progress
 University of Wisconsin - Madison Master of Science in Learning Sciences Sep 2017 - May 2020 Thesis Research: Exploring the Relationships between Gestures, Problem-solving Behaviors, and Internal Visualization Skills in Engineering with Multimodal Analysis 	
 Ewha Womans University Master of Art in Educational Technology 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 Bachelor of Art in Educational Technology	Seoul, Korea Mar 2009 – Aug 2014
New York State University - Stony Brook Exchange student program	NY, USA Jan 2012 – Dec 2012
HONORS & AWARDS University of Wissensin Medican	Con 2020
University of Wisconsin – Madison School of Education Bridge to Success Scholarship	Sep 2020
University of Wisconsin – Madison The Recruitment, Admissions, Fellowships, and Awards (RAFA)	Sep 2019
University of Wisconsin – Madison Student Research Grants Competition - Conference Presentation	Apr 2019
University of Wisconsin – Madison Graduate School Fellowship	Aug 2017
Ewha Womans University Best Master Thesis Award	Sep 2016
3 rd Dubai International Conference in Higher Education Highly Commended Poster Presentation Award	Feb 2015
49 th Educational Technology Exhibition and Conference (ETEC) Certificate for Excellent Work	Mar 2015

Sep 2014

RESEARCH EXPERIENCE

University of Wisconsin - Madison

WI, USA

Project Assistant

Jul 2019 - In progress

- Participated in the project, titled Support for Individual and Collaborative Learning of Internal Visualization Skills for Complex Engineering Concepts in Active Learning Classes
- Assisted in developing an adaptive educational technology—Signals Tutor
- Conducted iterative rounds of user testing to revise Signals Tutor

Project Assistant

Aug 2017 – Jul 2019

- Participated in the project, titled Assessing Complex Collaborative STEM Learning at Scale with Epistemic Network Analysis
- Developed multimodal analyses using students' behavioral log data and interactive chat data
- Conducted error analyses in using automated transcription data for Epistemic Network Analysis

Ewha Womans University

Seoul, Korea

Research Assistant at Korea Research Foundation

Sep 2015 - Aug 2016

- Participated in the 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 a 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

Sep 2014 - Aug 2015

- Participated in the 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 a prediction model for learning achievement by utilizing time management skills of Self-regulation

Brain Korea 21 Plus at 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 a smart learning environment

National Institute for Lifelong Education

Seoul, Korea Nov 2015 – Dec 2015

• Participated in Learning Analytics Design Research on K-MOOC system

• Studied with regarding applying learning analytics to K-MOOC system

Institute for Teaching and Learning Center in Ewha Womans University *Research Assistant*

Seoul, Korea

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 and translating contents

Korea Productivity Center

Research Assistant

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

TEACHING EXPERIENCE

University of Wisconsin - Madison

WI, USA

Tech teaching Assistant

Aug 2020 - In progress

- Assumed a role as the primary contact person for remote instructions in the Computer Science (CS) department
- Supported faculties in the CS department to be effective for their online offerings, including arranging learning contents in the Canvas learning management system, multimedia production and edition, and having (a)synchronous discussion activities

University of Wisconsin - Madison

WI, USA

Guest Lecturer

Apr 2020

- Session title: Technology in Education
- In Introduction to Educational psychology: How people learn
- Undergraduate level

University of Wisconsin - Madison

WI, USA

Teaching Assistant

Aug 2019 - May 2020

- In Introduction to Educational psychology: How people learn
- Undergraduate level

PUBLICATIONS

Peer-reviewed Journal Articles

Sung, H. & Jo, I. (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

- Kirankumar, V., **Sung, H.**, Swart, M., Kim, D., Xia, F., Kwon, O., & Nathan, M. J. (In review). Embodied Travel of Ideas: Collaborative Co-Constructing of Geometric Content and Mathematical Thinking. In *proceedings of the International Society of the Learning Sciences (ISLS) Annual Meeting*, Bochum.
- Nachtigall, V. & **Sung, H.** (2019). Students' Collaboration Patterns in a Productive Failure Setting: An Epistemic Network Analysis of Contrasting Cases. *Paper presented at the International Conference on Quantitative Ethnography (ICQE)*, Madison, Wisconsin.
- **Sung, H.**, Cao, T., Ruis, A. R., & Shaffer, D. W. (2019). 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 12th 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.

Books

Kim, J., Lee, H., Yoo, Y., **Sung, H.**, Jo, I. H., & Park, Y. (2015). Towards Smart Asynchronous Discussion Activity: Using Social Network Analysis to Investigate Students' Discussion Patterns. In *Emerging issues in smart learning* (pp. 361-370). Springer, Berlin, Heidelberg.

Research Posters

- Siebert-Evenstone, A., Eagan, B., Swiecki, Z., **Sung, H.**, Brohinsky, J., Wang, Y., Fogel, A., Shaffer, D. W. (2019). 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.

EXTRACURRICULAR ACTIVITIES

Global Engagement Office, University of Wisconsin-Madison *Peer mentor*

WI, USA 2020

- Provided individual-level support and guidance for international incoming graduate students
- Worked with new students to support their technology needs in acclimating to Canvas, WebEx, and other tools used for virtual instruction

Learning Sciences Graduate Student Conference

USA

Executive Committee member

2018 - In progress

- Organized keynote speech, scholar panel session, and social events
- Assisted conference preparation and execution
- Managed academic conference proceedings editing and publication

President 2018 – 2019

• Assumed 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

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