# **Yewon Sung**

Curriculum Vitae

California State University, San Bernardino

Department of Teacher Education and Foundations

College of Education

Mathematics Education

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# **ACADEMIC EMPLOYMENT**

**California State University, San Bernardino, Department of Teachear Education and Foundations**

Assistant Professor, Mathematics Education Aug 2022-present

**EDUCATION**

**University of Wisconsin-Madison, Madison, WI**  Aug 2022

Ph.D. in Mathematics Education, Ph.D. Minor in Educational Psychology

Dissertation: *Korean immigrant parents’ ways and reasons to support their elementary-aged children’s mathematical meaning-making at home during the COVID-19 pandemic.*

Advisor/Chair: Erika Bullock

Committee Members: Maxine McKinney de Royston, Thomas Popkewitz, Mary Louise Gomez, Martha Alibali, and Ana Stephens

# **Gyeongin National University of Education, Gyeonggi, South Korea** Feb 2022

# M.Ed. in Global Teacher Education

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# **St. Cloud State University, St. Cloud, MN** Aug 2017

M.S. in Curriculum and Instruction (Math Ed) & Special Education (Dual Major)

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# **Gyeongin National University of Education, Gyeonggi, South Korea** Aug 2013

# M.Ed. in Mathematics Gifted Education

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# **Gyeongin National University of Education, Gyeonggi, South Korea** Aug 2009

# B.S. in Elementary Education (specialized in Mathematics Education)

**Naruto University of Education, Tokushima, Japan**  Oct 2007-Aug 2008

Exchange Student (Mathematics Education)

**RESEARCH & TEACHING INTERESTS**

Cross-cultural use of language and gesture in mathematics learning

Parental involvement in mathematics education

Mathematical meaning-making

Mathematics identities and belonging

Early Algebra intervention

Narrative Inquiry

**PUBLICATIONS**

**Peer-Reviewed Journal Articles, Published or Accepted for Publication**

**Sung, Y.,** Stephens, A., Knuth, E., Blanton, M., Gardiner, A., & Stroud, R. (2021). Positive Emotions in Early Algebra Meaning-Making. *Didactica Mathematicae, 43*, 31-59. DOI: https://doi.org/10.14708/dm.v43i1.7115

Stephens, A., Veltri Torres, R., **Sung, Y.**, Strachota, S., Murphy Gardiner, A., Blanton, M., Stroud, R., & Knuth, E. (2021). From "You have to have three numbers and plus sign" to "It's the exact same thing": K–1 students learn to think relationally about equations. *Journal of Mathematical Behavior*. DOI: 10.1016/j.jmathb.2021.100871

Stephens, A., **Sung, Y.**, Strachota, S., Veltri Torres, R., Morton, K., Murphy Gardiner, A., Blanton, M., Knuth, E., & Stroud, R. (2020). The Role of Balance Scales in Supporting Productive Thinking about Equations Among Diverse Learners. *Mathematical Thinking and Learning*. DOI: [10.1080/10986065.2020.1793055](https://doi.org/10.1080/10986065.2020.1793055)

**Sung, Y.,** & Song. S. (2013). Mathematical Elaboration Process of the Elementary Gifted Children’s Board Game Re-creation in Group Project. *School Mathematics, KCI, V. 15*(3), p 619-632. Republic of Korea.

**Master’s Thesis**

Sung, Y. (2017). Advisor, Lo, M., Kaffar, B., and Haller, S., Teacher’s perception of creativity of mathematically Talented students. Saint Cloud State University, Minnesota, United States.

Sung, Y. (2013). Advisor, Song. S. Mathematical Elaboration Process of the primary Gifted Children’s Board Game Re-Creation Group Project. Gyeongin National University of Education, Republic of Korea.

# **PROCEEDINGS**

# Stephens, A., Stroud, R., Strachota, S., Blanton, M., Stylianou, D., Knuth, E., Veltri Torres, R., Murphy Gardiner, A., & **Sung, Y.** (2019). Sixth-grade students’ retention of early algebra understandings after an elementary grades intervention. In Otten, S., Candela, A. G., de Araujo, Z., Haines, C., & Munter, C. (Eds.), Proceedings of the forty-first annual meeting of *the North American Chapter of the International Group for the Psychology of Mathematics Education (pp. 147–156). St. Louis, MO: University of Missouri.*

# **PEER-REVIEWED PRESENTATIONS**

# **Sung, Y.,** Stephens, A., Veltri Torres, R., Strachota, S., Blanton, M., Gardiner, A. M., Knuth, E., & Stroud, R. (Under review). K-2 Early Algebra Students’ Understanding of the Commutative Property of Addition. Paper submitted to the 2023 annual meeting of *the American Educational Research Association (AERA). Chicago, IL.*

# **Sung, Y.,** Stephens, A., Veltri Torres, R., Strachota, S., Blanton, M., Gardiner, A. M., Knuth, E., & Stroud, R. (2022). Teacher language and gesture in an intervention focused on developing kindergarteners' understandings of the equal sign. Empirical Paper Presentation of the forty-fourth annual meeting of *the North American Chapter of the International Group for the Psychology of Mathematics Education. Nashville, TN: Middle Tennessee State University.*

# **Sung, Y.** (2022). Mathematical Meaning-Making Among Immigrant Families: Code-Switching, Cultural Negotiation, and Identity Development. Paper presented at the Curriculum and Instruction Graduate Student Conference, University of Wisconsin-Madison, USA.

**Sung, Y.,** Stephens, A., Blanton, M., Gardiner, A, Knuth, E., & Stroud, R. (2021). Positive Emotions in Early Algebra Learning. Paper presented at The 14th International Congress on Mathematical Education, Shanghai, China.

Veltri Torres, R., **Sung, Y.**, Strachota, S., Stephens, A., Blanton, M., Gardiner, A., Stroud, R., Knuth, E., & Stylianou, D., (2021). *An Early Algebra Intervention Develops K–1 Students' Relational Understanding of the Equal Sign.* Poster presented at the WCER Annual Poster Fair, Madison, USA.

Stephens, A., **Sung, Y.**, Strachota, S., Veltri Torres, R., Morton, K., Murphy Gardiner, A., Blanton, M., Knuth, E., & Stroud, R. (2020). How do balance scales shape K–2 students’ understandings of equations? Poster presented at the Annual Conference of the Society for Research on Educational Effectiveness, Washington, D.C. (Conference canceled due to the COVID-19 pandemic)

Veltri Torres, R., Prough, S., Strachota, S., Stephens, A., **Sung, Y.**, Gardiner, A., Blanton, M., & Knuth, E., (2019). *Describing the unknown: Moving toward variable notation and algebraic thinking in kindergarten.* Paper presented at the American Educational Research Association Annual Meeting, Toronto, Canada.

Veltri Torres, R., **Sung, Y.**, Strachota, S., Stephens, A., Blanton, M., Gardiner, A., Stroud, R., Knuth, E., & Stylianou, D., (2019). *Does early algebra matter? Results from a large-scale longitudinal intervention.* Poster presented at the WCER Annual Poster Fair, Madison, USA.

# **SUBMITTED FOR INITIAL REVIEW**

# **Sung, Y.,** Stephens, A., Veltri Torres, R., Strachota, S., Blanton, M., Gardiner, A. M., Knuth, E., & Stroud, R. (under review). Teacher Language and Gesture in a Classroom in Which Kindergarten Students Developed Their Understanding of the Equal Sign.

# **WORKING MANUSCRIPT**

# **Sung, Y.** (in progress). Korean immigrant parents desire to belong in U.S. society and support their children’s mathematical meaning-making.

# **HONORS & AWARDS**

# **Thomas A. Romberg Fellowship (A Nine-Month Stipend, $22,909)** Sep 2021-May 2022

# The University of Wisconsin-Madison, Madison, WI

**Hartzman International Conference Award ($ 400)** July 2021

The University of Wisconsin-Madison, Madison, WI

**Excellent Graduate Student Award ($1,000)**  Mar 2012

Gyeongin National University of Education, Gyeonggi, South Korea

**Excellent Teaching Award 2nd highest rank**  Nov 2012

Gyeonggi Province Education Office, Suwon-Si, Gyeonggi, South Korea

Mathematics Teaching: Polydron to 5th-grade students

**Gifted Education Teaching Award 2nd highest rank** Nov 2012

Uiwang Education Office, Uiwang-Si, Gyeonggi, South Korea

**Tokushima Congress Chair’s Award in Japanese Speech Contest** July 2008

Tokushima Prefecture, Japan

**University Mascot Design Contest 2nd highest rank** Nov 2006

Gyeongin National University of Education, Anyang-Si, Gyeonggi, South Korea

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# **PROFESSIONAL EMPLOYMENT HISTORY**

# *Assistant Professor*

**California State University, San Bernardino, CA** Aug 2022-present

Mathematics Education (Multiple Subject Licensure Program)

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# *Teaching Assistant*

# **University of Wisconsin-Madison, Madison, WI** Sep 2020 - May 2021

Teaching assistant for pre-service teachers

# **St. Cloud State University, St. Cloud, MN** Jan 2016 - May 2017

Teaching assistant for pre-service teachers including **edTPA**

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# *Lecturer for PD sessions*

# **Gyeongin National University of Education, Gyeonggi, South Korea** Jan 2014 – Jan 2015

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# *Elementary School Teaching*

# **Ojeon Elementary School, Gyeonggi, South Korea** Mar 2010 - Aug 2015

Homeroom teacher and subject teacher for 3-6th grade students

# **Changrim Elementary School, Seoul, South Korea** May 2017-July 2017

Homeroom teacher for 6th-grade students

# **Haneol Elementary School, Gyeonggi, South Korea** May 2019-Aug 2019

English subject teacher for 3-6th grade students

# **RESEARCH GRANT EXPERIENCES**

# *Project Assistant*

# **University of Wisconsin-Madison, Madison, WI** Sep 2017 - present

Funded by **National Science Foundation** DRL-1720129: Building a Grades K–2 Early Algebra Learning Progression for Diverse Populations (2017-2020)

Funded by **Institute for Education Sciences** R305A170378: Extending a Grades 3–5 Early Algebra Learning Progression into Grades K–2 (2017-2021)

PIs: Maria Blanton (TERC), Angela Gardiner (TERC), Eric Knuth (University of Texas at Austin), Ana Stephens (University of Wisconsin-Madison), and Rena Stroud (Merrimack College)

Publications of ongoing work at JMB, 2021, MTL, 2020, DM, 2021.

Presentations of ongoing work at ICME-14 2021

# **NATIONAL AND INTERNATIONAL SERVICE**

*Service to the University of Wisconsin-Madison*

Peer Mentor for new international students and visiting scholars Aug 2021

Presenter for Global Research Symposium, Spring 2022 April 2022

*Service to the Profession*

Reviewer for Educational Researcher Aug 2021-present

Reviewer for ICME conference proposals Nov 2019-present

Reviewer for PME-NA conference proposals Nov 2019-present

Reviewer for Didactica Mathematicae May 2022-present

*Service to the Global Community*

Mother Teresa’s house, Kolkata, India January 2012

Translator for Korea & Japan mathematics education seminar August 2007 – August 2015

# **LICENSURE AND CERTIFICATIONS**

**Graduate Certificate in Instructional Technology** Aug 2017

Saint Cloud State University, St. Cloud, MN, United States

**Minnesota Mathematics 5-12 Teacher license** Oct 2016-present

Minnesota Department of Education, MN, United States

**Minnesota Elementary K-6 Teacher license** Oct 2016-present

Minnesota Department of Education, MN, United States

**Elementary School Teacher license 1st level (Highest Level)** Aug 2014-present

Gyeonggi Province Education Office, Suwon-Si, Gyeonggi, South Korea

**Elementary School Teacher license 2nd level** Aug 2009-present

Gyeongin National University of Education, Anyang-Si, Gyeonggi, South Korea

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# **COURSES/TEACHING**

**Fall 2022**

* EDMS 5104 (1) Mathematics Teaching and Learning
* EDMS 5104 (5) Mathematics Teaching and Learning
* EDMS 4107A (12) Supervised Clinical Practice (Student Teaching)

# **PROFESSIONAL DEVELOPMENT**

# *Webinars*

A Writer’s Retreat July 2021

Paraphrasing Like a Pro: How to Successfully “Use Your Own Words” June 2020

Writing Literature Reviews of Published Research Nov 2019

Getting Your Dissertation off the Ground: Writing the First Chapter Oct 2019

Creating Figures and Tables in APA Research Papers Sep 2019

Education Fall Welcome Resource Fair Sep 2017

International Student Fair Sep 2017

Grad School Resource Fair Aug 2017

**PROFESSIONAL AFFILIATIONS**

California Mathematics Council (CMC) July 2022-Present

Association of Mathematics Teacher Educators (AMTE) June 2022-Present

National Council of Teachers of Mathematics (NCTM) April 2022-Present

American Educational Research Association (AERA) Aug 2021-Present

Division K: Teaching and Teacher Education

Korean American Research Association (KAERA) Aug 2021-Present

# **LANGUAGES**

**English, Japanese, & Korean**

**Japanese Language Proficiency Test (JLPT) 1st level (Highest Level)** Jan 2009

Japan Foundation, Japan Educational Exchange and Service