Makoto Yoshida, Ph.D.

PROFESSIONAL PREPARATION			
Ph.D., 1999 Educational Psychology, The University of Chicago (Chicago, IL)			
	ucational Psychology, The University of Chicago (Chicago, IL)		
B.A., 1886 Ed	ucation & Psychology, Lewis and Clark College (Portland, OR)		
<u>APPOINTMENTS</u>			
2013 - present	3 rd Vice-President, The Association of Mathematics Teachers of New Jersey (AMTNJ)		
2012 - present	Consultant for iSingaporeMath LLC (Scarsdale, NY)		
2011 - present	Co-PI, Institute of Education Science (IES) funded project "Focused and Coherent Elementary Mathematics: Japanese Curriculum Resources for U.S. Teachers" (3 year project)		
2011 - present	Co-PI, Institute of Education Science (IES) funded project "Japanese Structured Problem-Solving as Resources for U.S. Teachers" (3 year		
2007 - present	project) Director, Center for Lesson Study, William Paterson University (Wayne, NJ)		
2008 - present	Adjunct Professor, William Paterson University – Elementary and Middle School Mathematics Methods Course instructor and Professor in		
2001 - present	Residence at Paterson Public School No. 2 (PD School). President, Global Education Resources, L.L.C. (Madison, NJ) – Professional development provider on mathematics instruction and learning, lesson study, and Japanese elementary school mathematics curriculum. GER is the translator and distributer of <i>Tokyo Shoseki's</i> English translated version of Mathematics International (Grades 1 to 6, and 7 to 9) and <i>Kyoiku Dojinsha's</i> English version of the student workbooks (Grades 1-6).		
2003 - 2008 1999 - 2001	Consultant, Center for Evidence Based Education, (Princeton, NJ) Senior Researcher, Teachers College, Columbia University, (New York, NY) National Science Foundation (NSF) "Learning from Lesson Study, A Japanese Approach to Development Teaching Skills and Innovations, PI, Dr. Clear Fernandez.		
2000 - 2001	Professional Development Provider & Consultant for Mathematical Science Education Board, National Academies, (Washington, DC)		
1997 - 1999	Professional Development Provider & Consultant for Classroom Inc. (New York, NY), Mills College (working with Dr. Catherine Lewis; Oakland, CA), Teachers College, Columbia University (working with Dr. Clea Fernandez; New York, NY)		
1993 - 1995	Research Assistant, Third International Mathematics and Science Study (TIMSS), PI Dr. James Stigler (UCLA).		
1992 - 1996	Research Assistant, University of California at Los Angeles (UCLA), (working with Dr. James Stigler; Los Angeles, CA)		
1989 - 1993	Research Assistant, The University of Chicago, (working with Dr. James Stigler; Chicago, IL)		

- 1991 1992 Research Assistant, The University of Chicago School Mathematics Project (UCSMP), (working with Dr. Max Bell, Chicago, IL)
- 1986 1989 Sales Data Analyst & Marketing Planner, Mazda Motor Corporation (Hiroshima, Japan, and Irvine, CA)

FIVE RECENT SIGNIFICANT PUBLICATIONS

- Yoshida, M. (2012). Mathematics Lesson Study in the United States: Current Status and Ideas for Conducting High Quality and Effective Lesson Study, *International Journal for Lesson Study and Learning Studies*, 140-152
- Yoshida, M. and Jackson, W. (2011). Ideas for Developing Mathematical Pedagogical Content Knowledge Through Lesson Study. In Hart, L., Alston, A., and Murata, A. (Eds.), Lesson Study Research and Practice in Mathematics Education: Learning Together. New York, NY: Springer.
- 2010 Watanabe, T., Takahashi, A., and Yoshida, M. (2010). Supporting Focused and Cohesive Curricula through Visual Representations: An Example from Japanese Textbooks. *2010 Yearbook: Contemporary Issues in Mathematics Curriculum*. Reston, VA: National Council of Teachers of Mathematics.
- Yoshida, M. (2008). Exploring Ideas for a Mathematics Teacher Educator's Contribution to Lesson Study: Toward Improving Teachers' Mathematical Content and Pedagogical Knowledge. In Tirosh, D. and Wood, T. (Eds.), *The International Handbook of Mathematics Teacher Education, Volume 2, Tools and Processes in Mathematics Teacher Education*, 85-106. Rotterdam, Netherlands: Sense Publishers.
- Watanabe, T., Takahashi, A., and Yoshida, M. (2008). Kyozaikenkyu: A Critical Step for Conducting Effective Lesson Study and Beyond. In Arbaugh, F. and Taylor, P.M. (Eds.), AMTE Monograph 5: *Inquiry into Mathematics Teacher Education*, 131-142.
- Takahashi, A., and Yoshida, M. (2004). Ideas for Establishing Lesson-Study Communities. *Teaching Children Mathematics* (May), 436-443.
- 2004 Fernandez, C., and Yoshida, M. (2004). Lesson Study: A Japanese Approach to Improving Mathematics Teaching and Learning. Mahwah, NJ: Lawrence Erlabaum Associates, Publishers.

OTHER PUBLICATIONS

In Press	Fernandez, C., Chokshi, S., Cannon, J., & Yoshida, M. (in press). Learning about
	lesson study in the United States. In E. Beauchamp (Ed.), New and old voices
	on Japanese education. Armonk, NY: M.E. Sharpe.

- Wang-Iverson, P., & Yoshida, M. (Eds.). (2005). *Building Our Understanding of Lesson Study*. Philadelphia, PA: Research for Better Schools, Inc.
- Fernandez, C., & Yoshida, M. (2000). Lesson study as a model for improving teaching: Insights, challenges and a vision for the future. In A. Poliakoff and T. D. Schwartzbeck (Series Eds.), *The eye of the storm: Improving teaching practices to achieve higher standards*. Washington, DC: Council for Basic Education.

1997	Jacobs, J. K., Yoshida, M., Stigler, J. W., & Fernandez, C. (1997). Japanese and American teachers' evaluations of mathematics lessons: A new technique for exploring beliefs. <i>Journal of Mathematical Behavior</i> , 16(1) 7-24.
1996	Stigler, J. W., Fernandez, C., & Yoshida, M. (1996). Cultures of mathematics instruction in Japanese and American elementary classrooms. In T. P. Rohlen
	and G. R. LeTendre (Eds.), <i>Teaching and learning in Japan.</i> Cambridge,
	England: Cambridge University Press.
1996	Stigler, J. W., Fernandez, C., & Yoshida, M. (1996). Traditions of school
	mathematics in Japanese and American elementary classrooms. In P. Nesher,
	L. P. Steffe, P. Cobb, G. Goldin, and B. Greer (Eds.), Theories of mathematical
	learning. Hillsdale, NJ: Lawrence Erlbaum Associates.
1993	Yoshida, M., Fernandez, C., & Stigler, J. W. (1993). Japanese and American
	students' differential recognition memory for teachers' statements during a
	mathematics lesson. <i>Journal of Educational Psychology, 85</i> (4), 610-617.
1992	Fernandez, C., Yoshida, M., & Stigler, J. W. (1992). Learning mathematics from classroom instruction: On relating lessons to pupils' interpretations. <i>Journal</i>
	of the Learning Sciences, 2(4), 333-365.

SYNERGISTIC ACTIVITIES

2012	English translation of elementary and lower secondary Japanese
	mathematics textbook series entitled <i>Mathematics</i> International (Grades 1 to
	6 and 7 to 9), Project funded by Tokyo Shoseki and available at Global
	Education Resources)
2009	English translation of Elementary School Teaching Guide for the Japanese
	Course of Study: Arithmetic (Grades 1-6), published in Japan in 2009.
	(www.sei2003.com/APEC/APEC_KB/KBDisplay.aspx?lngPkID=1567)
2007	Japanese Lesson Study: Grade 4 "Perimeter and Area" DVD (80 min.), produced
	by Akihiko Takahashi and Makoto Yoshida
2007	Translation of Teacher Manual for Math Tool Kit and One Year Plans for Tokyo
	Shoseki's Mathematics for Elementary School, produced by Makoto Yoshida
2004 - 06	English translation of a Japanese elementary school mathematics textbook,
	Mathematics for Elementary School (Grade 1 to 6). Project funded by Global
	Education Resources (GER) and Tokyo Shoseki.
2006	Translation of Lower Secondary School Teaching Guide for the Japanese Course
	of Study: Mathematics (Grades 7 - 9). Originally published in Japan in 1989.
2006	Translation of Elementary School Teaching Guide for the Japanese Course of
	Study: Arithmetic (Grades 1-6). Originally published in Japan in 1989.
2002	Lesson Study: An Introduction DVD (23 min.), produced by Makoto Yoshida
	and Clea Fernandez

SELLECTED PRESENTATIONS

Oct. 2012 Yoshida, M. (2012). *Teaching Fractions and Decimals Under Common Core*State Standards, Association of Mathematics Teachers of New Jersey (AMTNJ)
Annual Meeting: Monroe, NJ

- April 2012 Yoshida, M. (2012). Enhancing Students' Writing and Interpretation Skills of Numerical Expressions, National Council Teachers of Mathematics (NCTM) 90th Annual Meeting: Philadelphia, PA.
- Oct. 2011 Yoshida, M. (2911). *Discuss, Develop, and Justify Formulas for Area of Plane Figures,* National Council Teachers of Mathematics (NCTM) Regional Meeting: Atlantic City, NJ.
- March 2011 Yoshida, M. (2011). *Building Conceptual Understanding of Circumference and Area of Circles*, National Council Teachers of Mathematics (NCTM) 89th Annual Meeting: Indianapolis, IN.
- Oct. 2010 Yoshida, M. (2010). *Teaching Mathematics Through Problem Solving: What is it and Why Should We?*, Association of Mathematics Teachers of New Jersey (AMTNJ) Annual Meeting: Monroe, NJ
- April 2010 Yoshida, M. (2010). *Improving Blackboard Organization to Enhance Students' Mathematical Thinking and Understanding*, National Council Teachers of
 Mathematics (NCTM) 88th Annual Meeting: San Diego, CA.
- Aug. 2009 Yoshida, M. (2009). *Keynote: Status and Issues Involving Lesson Study in the U.S.: What we can learn from the U.S.?*, Keynote address, Action Research Study Conference 2009: Atami, Japan.
- April 2009 Yoshida, M. (2009). *Is Multiplication Just Repeated Addition?: Insights from Japanese Mathematics Textbooks for Expanding the Multiplication Concept,* National Council Teachers of Mathematics (NCTM) 87th Annual Meeting: Washington, DC.
- Dec. 2008 Yoshida, M. (2008). *Mathematics Lesson Study in the United States: Current Status and Idea for Conducting Effective Lesson Study*. Keynote Address, The World Association of Lesson Study, 2009 Conference: Hong Kong, China.
- Oct. 2007 Yoshida, M. (2007). Importance of Writing and Interpreting Mathematical Expressions in Elementary School Mathematics: Ideas for Building a Smooth Transition from Elementary to Middle school Mathematic, The 48th Annual Georgia Mathematics Conference: Rock Eagle, GA.
- March 2007 Yoshida, M. (2007). *10! A Big Idea for Primary Mathematics*, National Council Teachers of Mathematics (NCTM) 85th Annual Meeting: Atlanta, GA.
- March 2007 Yoshida, M. & Jackson, B. (2007). Fractions are not Easy as Pie!: Fraction Meaning and Representation in Asian Textbooks. National Council Teachers of Mathematics (NCTM) 85th Annual Meeting: Atlanta, GA.
- Jan. 2007 Yoshida, M. & Watanabe, T. (2007). Importance of Conducting Kyozaikenkyu During Lesson Study: Toward Improving Teachers' Pedagogical and Mathematical Knowledge, Association of Mathematics Teacher Educators (AMTE) 11th Annual Conference: Irvine, CA.
- Oct. 2006 Yoshida, M. (2006). Characteristics of the Japanese Elementary Mathematics Textbooks: What Can We Learn from Them?, National Council Teachers of Mathematics (NCTM) Regional Meeting: Atlantic City, NJ.
- Oct. 2005 Yoshida, M. (2005). *Bring Georgia's New Mathematics Standards to Life through Lesson Study*, The 46th Annual Georgia Mathematics Conference: Rock Eagle, GA.

Oct. 2005 Yoshida, M. (2005). Lesson Study: A Professional Development Approach for *Improving Classroom Teaching*, The 46th Annual Georgia Mathematics Conference: Rock Eagle, GA. Yoshida, M. (2005). Developing Students' Expressive Ability, Communication July 2005 Skills, and Mathematical Language, American Federation of Teachers, Quality Educational Standards in Teaching (QuEST) 2005 Annual Conference: Washington, DC. Mary 2005 Yoshida, M. & Shouffler, J. (2005). *Improving Lesson Study by Conducting* Effective Post-Research-Lesson Discussion, Co-presented with Jennifer Shouffler, The Association of Mathematics Teachers of New Jersey (AMTNJ) 2005 Spring Regional Conference: Union, NJ. May 2005 Yoshida, M. (2005). Conducting Kyozaikenkyu (Instructional Material Investigation) During Lesson Study: Toward Improving Teachers' Content and Pedagogical Knowledge. Keynote address at Western Washington University, North Cascades and Olympic Science Partnership Conference, Bellingham, WA. April 2004 Yoshida, M. & Jackson, B. (2004). Supporting Lesson Study Effectively: The Role of Supporters, National Council Teachers of Mathematics (NCTM) 80th Annual Meeting: Philadelphia, PA. Yoshida, M. (2002). Lesson Study at Paterson Public School No. 2 (Paterson, April 2002 NI), National Council Teachers of Mathematics (NCTM) 78th Annual Meeting: Las Vegas, NV. 2001 Fernandez, C., Jackson, B., & Yoshida, M. (2001). Building a comprehensive mathematics program in your school: Important elements to consider. Invited address at the U.S. Department of Education's Seventh Annual Regional Conference on Improving America's Schools, Washington, D. C. 2001 Cannon, J., Fernandez, C., & Yoshida, M. (2001). Teacher planning and reflection: A cross-cultural examination of Japanese and American teachers' thinking and practice outside of the classroom. Paper presented at the annual meeting of the American Educational Research Association, Seattle, WA. 2000 Fernandez, C. & Yoshida, M. (2000). Lesson study: The Japanese approach to improving instruction. Invited address for the Mathematical Sciences Education Board, National Academy of Sciences: Washington, DC. Fernandez, C., Yoshida, M., Cannon, J., & Chokshi, S. (2000). An exploration of 2000 Japanese teaching and lesson study: Is there something we can learn from all

this?, Workshop conducted at the annual meeting of the Association of

Mathematics Teachers of New Jersey.