KATHY LIU SUN
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EDUCATION

June 2015 **Ph.D. Stanford University**
Mathematics Education
Individually designed minor in Creativity, Innovation, and Change
Dissertation: Examining the relationship between teacher and student mindset and math classroom practices
Committee: Jo Boaler (advisor), Carol Dweck, Megan Franke & Deborah Stipek

2005 **San Jose State University**
California Single Subject Teaching Credential Secondary Mathematics (grades 6-12)

2000 **B.A. Stanford University**
Economics
Minor in Computer Science

PROFESSIONAL EXPERIENCE

2015 – present **Assistant Professor,** Department of Education, Santa Clara University

GRANTS & AWARDS

2018 Santa Clara University Junior Faculty Leave Grant ($2000)
2017 – 2018 Santa Clara University School of Education and Counseling Psychology Junior Faculty Research Grant ($2000)
2016 – 2018 San Mateo County Office of Education Early Learning Mathematics Initiative ($30,000)
Association of Mathematics Teacher Educators STaR Fellow
2016 – 2017 Stanford Graduate School of Education Student Award
2015 American Educational Research Association (AERA) Minority Dissertation Fellowship
2014 – 2015 ($20,000)
Stanford Graduate School of Education Dissertation Support Grant ($6000)
2013 – 2015
2013 – 2015 Stanford University Diversity Dissertation Research Opportunity Grant ($4700)
2013 – 2015 Stanford University Student Projects for Intellectual Community Enhancement (SPICE) Grant ($6000)
2010 – 2014 Regina Casper Stanford Graduate Fellowship (Graduate tuition and stipend, ~$200,000)
2007 Teacher of the Year, San Jose Unified School District, Gunderson High School
2004 Celebrating Teachers Award, Stanford University's Cosby on Campus

PUBLICATIONS

Sun, K., Baldinger, E., & Humphreys, C. (2018). Number Talks: Gateway to Sense Making. *Mathematics Teacher.*

Sun, K. (2018). The Role of Math Teaching in Fostering Student Growth Mindset. *Journal for Research in Mathematics Education.* 49*(3)*. p. 330-355.

Boaler, J., Dieckmann, J., Pérez-Núñez, G., **Sun, K.,** Williams, C. (2018). Changing Students' Minds and Achievement in Mathematics: The Impact of a Free Online Student Course. *Frontiers in Education.* 3*(26)*.

Sun, K. (2018). Beyond Rhetoric: Authentically Supporting Growth Mindset. *Teaching Children Mathematics.* 24*(5)*. P. 280-284.

Waller, P., Id-Deen, L., **Sun, K.**, & Baldinger, E. (2017). AMTE STaR: Supporting Young Scholars in Forging Connections and Collaborations around Equitable Practices. *AMTE Connections.* 27*(2).*

Sun, K. (2017). The Importance of Cultivating Empathy in STEM Education. *Science Scope.* 40*(8)*, p. 6-8.

Sun, K. (2017). Empathy in STEM education. In S. Goldman & Z. Kabayadondo (Eds.), *Taking design to school: Bringing the vision to focus.* Oxon, UK: Taylor & Francis.

Sun, K. & Evans, L. (2016). Intellectual Risk Taking in the Mathematics Classroom. *New England Mathematics Journal.* 49*(1)*, p. 47-57.

Brown, B., Mangram, C., **Sun, K.**, Cross, K., & Raab, E. (2016). Representing racial identity: Identity, race, the construction of the African American STEM students. *Urban Education.* 52*(2)*, p. 170-206.

Boaler, J., Selling, S. K., & **Sun, K**. (2013). Where are the foxes in mathematics education? In K. Leatham (Ed.) *Vital Directions for Mathematics Education Research*. Springer.

PRESENTATIONS

Kijima, R., **Sun, K.**, Maekawa, M. S. (2018). *Empowering Girls: The Intersection of Design Thinking and STEAM Activities.* Paper presented at the Connected Learning Summit. MIT Media Lab. Cambridge, MA.

Stoehr, K. & **Sun, K.** (2018). *Learning mathematics through a community based experience.* Presentation given at the Project Based Learning 2018 International Conference, Santa Clara, CA.

Waller, P., **Sun, K.**, Baldinger, E., & Id-Deen, L. (2018). *Addressing access and equity in secondary methods courses.* Paper presented at Association of Mathematics Teacher Educators, Houston, TX.

Sun, K., Baldinger, E., Id-Deen, L. & Waller, P. (2017) *Beyond Mickey Mouse Math: Access and Equity in Secondary Methods Courses.* Symposium at National Council of Teachers of Mathematics Annual Meeting, San Antonio, TX.

Sun, K. (2017) *Beyond the rhetoric: Math instruction to support student growth mindset.* Poster presented at American Educational Research Association Annual Meeting, San Antonio, TX.

Sun, K. (2017). *Beyond the rhetoric: Math teaching that authentically supports growth mindset.* Paper presented at Association of Mathematics Teacher Educators, Orlando, FL.

Sun, K. (2016). *The role of math teachers in fostering student growth mindset.* Paper presented at Psychology of Mathematics Education Annual Conference, Tucson, AZ.

Sun, K. (2016) *Math teachers' influence on student growth mindset.* Paper presented at National Council of Teachers of Mathematics Annual Meeting, San Francisco, CA.

Sun, K. & Bambao, K. (2016) *Promoting Effective Math Instruction for Young Children through Counting Collections.* Presented at National Council of Teachers of Mathematics Annual Meeting, San Francisco, CA.

Humphreys, C. & **Sun, K.** (2016). *Doing Math in Pre-K to 2nd Grade: What Students Can Do and What Teachers Can Learn*. Paper accepted for presentation at Association of Mathematics Teacher Educators, Irvine, CA.

Sun, K. (2015) *The power of empathy in STEM education: An analysis of a human-centered approach to problem solving.* Paper presented at American Educational Research Association Annual Meeting, Chicago, IL.

Sun, K. (2014). Math teacher mindset and classroom practices. Paper presented at the International Group for the Psychology of Mathematics Education and the North American Chapter of the Psychology of Mathematics Education. Vancouver, BC.

Sun, K. (2014). *Mathematics teaching for a growth mindset*. Paper presented at Association of Mathematics Teacher Educators, Irvine, CA.

Sun, K. (2013) *Teacher learning in a professional development context: An analysis of tensions*. Paper presented at American Educational Research Association Annual Meeting, San Francisco, CA.

RESEARCH EXPERIENCE

2012 – 2015 **Promoting Effective Math Instruction for Young Children**
Graduate Research Assistant
PIs: Deborah Stipek, Stanford University & Megan Franke, UCLA

2012 – 2015 **Exploring STEM School Design for African American Boys**
Graduate Research Assistant
PI: Bryan Brown, Stanford University

2012 – 2014 **Teaching for Tomorrow Today: Teachers and Design Thinking**
Graduate Research Assistant
PI: Shelley Goldman, Stanford University

2011 – 2012 **Teachers and Design thinking: Analysis of a K-12 Workshop** (funded by Stanford Graduate Fellowship)
Independent Researcher

TEACHING – HIGHER EDUCATION

2015 – present	**Instructor,** *Elementary & Secondary Math Methods, K-12 Technology in Education, Santa Clara University*
2013 – 2015	**Instructor,** *Curriculum and Instruction in Mathematics, Stanford University*
2012 – 2014	**Teaching Assistant,** *How Do People Learn Math? What we know from research and the problems that persist in US math classrooms, Stanford University*
2013	**Teaching Assistant,** *Creativity and Innovation, Stanford University d.school*
2012	**Teaching Assistant,** *Curriculum and Instruction in Mathematics, Stanford University*
2007 – 2008	**Secondary Math Pre-service Teacher Supervisor**, *San Jose State University*

TEACHING & ADMINISTRATION – K-12

2002 – 2010	**Math Teacher,** *Gunderson High School, San Jose, CA, (2005-2010)* *Academia Calmecac Charter High School, San Jose, CA, (2001-2005)*
2007 – 2010	**Computer Science Teacher,** *Gunderson High School, San Jose, CA*
2006 – 2008	**Math Department Chair,** *Gunderson High School, San Jose, CA*
2003 – 2005	**Test Coordinator,** *Academia Calmecac Charter High School, San Jose, CA*
2002 – 2005	**Math Coordinator,** *Academia Calmecac Charter High School, San Jose, CA*
2001 – 2002	**Americorps Member,** *Academia Calmecac Charter High School, San Jose, CA*

TEACHING – PROFESSIONAL DEVELOPMENT

2016 - present	**Co-Facilitator,** *Counting Collections. San Mateo Foster City School District, San Mateo, CA.*
2017 – 2018	**Co-Facilitor,** *Teaching Mathematics of Growth Mindset and Sense Making, Milpitas Unified School District*
2017	**Facilitator,** *Mathematics Teaching for a Growth Mindset. A-Learn Summer Session, Santa Clara, CA.*
Sum 2016-18	**Co-facilitator,** *Co-teaching in the Mathematics Classroom. A-Learn Summer Session, Santa Clara, CA.*
2017	**Facilitator,** *Supporting Mathematical Sense Making through Number Talks. Silver Creek High School, East Side Union High School District. San Jose, CA.*

2015 **Co-facilitator,** *Promoting Effective Math Instruction for Young Children through Counting, California Mathematics Council (CMC) North – Asilomar Conference*

2013 & 2014 **Co-facilitator,** *Mindset, Mathematics & Common Core Transition, San Diego County Office of Education*

2012 **Co-facilitator***, Math Professional Development with Palo Alto Middle Schools*

2012 **Co-facilitator***, Teaching Mathematics for a Growth Mindset, Stanford Summer Teaching Institute*

OTHER EXPERIENCES

2013 & 2014 **Performance Assessment for California Teachers (PACT) Scorer***, Stanford Teacher Education Program, Stanford, CA*

2012 **Curriculum Design Consultant***, Summit Charter School, San Jose, CA*

2011 – 2012 **Conference Assistant***, California Early Childhood Mathematics Conference, Stanford, CA*

MEDIA REFERENCES

Sun, K. (2017, March 1). Silicon Valley teacher: Don't confuse educational technology that helps kids learn — and doesn't. *The Washington Post.*

Varlas, L. (2016, March). Mindset 20/20. *ASCD Express.* 58*(3).*

Dweck, C. (2016) The Remarkable Reach of Growth Mind-Sets. *Scientific American Mind*, *27,* 36-41.

Heitin, L. (2016, January 25). Is Common Core Math leading to more memorization than intended? *Education Week.*

Sun, K. (2016, January 15). Are Common Core math standards being misinterpreted? *The Washington Post.*

Barshay, J. (2015, November 23). Teachers, parents often misuse growth mindset research, Carol Dweck says/Growth mindset guru Carol Dweck says teachers and parents often use her research incorrectly. *U.S. New & World Report/Hechinger Report.*

Dweck, C. (2015, September 22). Carol Dweck revisits growth mindset. *Education Week.*

Blad, E. (2015, September 8). Teachers nurture growth mindset in math. *Education Week.*

Sun, K. (2014, July 10). Reset how we think and talk about math. *USA Today.*

INVITED & DEPARTMENTAL TALKS

Learning & the Brain Conference. San Francisco, CA. (2017). *Moving Beyond the Rhetoric: Math Teaching that Authentically Supports Growth Mindset.* February 18.

Mathematics Department Colloquia. Santa Clara University. (2016). *Mathematics teaching for a growth mindset: Supporting students to believe in their math potential.* May 24.

Psychological Interventions in Education Settings Group. Stanford University. (2016). *Forging school partnerships to examine the role of math teachers in fostering student growth mindset.* March 9.

School of Education & Counseling Psychology Brown Bag Lunch Series. Santa Clara University. (2016). *Moving beyond the rhetoric: Supporting student development of growth mindset.* February 9.

PROFESSIONAL SERVICE

Journal Reviewer, Educational Researcher, Journal for Research in Mathematics Education, Teaching and Teacher Education, SageOpen (article editor), Evaluation and Program Planning

Proposal Reviewer, Association of Mathematics Teacher Educators (AMTE), National Council of Teachers of Mathematics (NCTM), National Science Foundation (NSF)

Article Editor, Sage Open

Mentor, Stanford Alumni Mentoring Program

PROFESSIONAL MEMBERSHIPS

American Educational Research Association
Association of Mathematics Teacher Educators
California Mathematics Council
National Council of Teachers of Mathematics
Psychology of Mathematics Education