

# CURRICULUM VITAE

## Kien H. Lim

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### EDUCATION

- 2001 – 2006: University of California, San Diego & San Diego State University  
*Ph.D. Mathematics and Science Education, Sep 9, 2006*
- 1999 – 2001: University of Wyoming  
*M.S. Mathematics (member of the Honor Society of Phi Kappa Phi)*
- 1987 – 1991: National University of Singapore  
*B.Eng. with First Class Honors, Electrical Engineering*

### GRANTS

- Teacher Quality Program (2012-14)  
Title: *Fostering Mathematical Thinking in Middle Schools*  
Role: PI, Shared responsibilities in workshops, formative assessment, and grant reporting  
Awarded \$296,591 by Texas Higher Education Coordinating Board.
- Math, Science and Technology Teacher Preparation Academy (2010-12)  
Title: *SABEMAS Learning Academy Renewal*  
Role: Co-PI, Co-plan and co-conduct workshops for teachers to integrate math and science  
Awarded \$400,000 by Texas Higher Education Coordinating Board.
- Teacher Quality Program (2009-12)  
Title: *Middle School Mathematics Project*  
Role: Co-PI, Shared responsibilities in workshops, formative assessment, and grant reporting  
Awarded \$350,539 by Texas Higher Education Coordinating Board.
- Teacher Quality Program (2008-09)  
Title: *Improving Middle Grades Teachers' Quantitative and Algebraic Reasoning*  
Role: Co-PI, Shared responsibilities in conducting workshops  
Awarded \$104,088 by Texas Higher Education Coordinating Board.
- Sub-award within the Teachers for a New Era Program (2008-10)  
Title: *Assessing Students' Impulsive Disposition*  
Role: PI, Led a team to develop, test, and refine the likelihood-to-act survey instrument  
Funded \$29,400 by Carnegie Corporation of New York.

### AWARDS & FELLOWSHIP

- 2012 University of Texas Regents Outstanding Teaching Award (August 22, 2012)
- 2012 Excellence in Teaching Award, College of Science (May 4, 2012).
- 2011 Distinguished Achievement Award for Teaching, College of Science. (May 6, 2011).
- 2011 Sun Conference Scholarship of Teaching and Learning Award. (March 11, 2011).
- 2007-08 Texas Instrument Project NExT Fellow, Mathematical Association of America. (July 30, 2008).

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## EDITORIAL WORK

A member in the Editorial Panel for *Mathematics Teaching in the Middle School*, 2009-2012.

## REFEREED JOURNAL ARTICLES

- Lim, K. H. (2011). Addressing the multiplication makes bigger and division makes smaller misconceptions via prediction and clickers. *International Journal of Mathematical Education in Science and Technology*, 42(8), 1081-1106.
- Lim, K. H., Buendía, G., Kim, O. K., Cordero, F., & Kasmer, L. (2010). The role of prediction in the teaching and learning of mathematics. *International Journal of Mathematical Education in Science and Technology*, 41(5), 595-608.
- Lim, K. H. (2009). Provoking intellectual need. *Mathematics Teaching in the Middle School*, 15(2), 92-99.
- Lim, K. H. (2009). Burning the candle at just one end: Using nonproportional examples helps students determine when proportional strategies apply. *Mathematics Teaching in the Middle School*, 14(8), 492-500.

## REFEREED CONFERENCE PROCEEDINGS

- Lim, K. H., & Mendoza, M. (2012). Inferring impulsive-analytic disposition from students' actions in solving math problems. In L. R. Van Zoest, J. Lo, & J. L. Kratky (Eds.), *Proceedings of the Thirty-fourth Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 759-767). Kalamazoo, Michigan: Western Michigan University. [http://works.bepress.com/cgi/sw\\_config.cgi?context=kien\\_lim/30](http://works.bepress.com/cgi/sw_config.cgi?context=kien_lim/30)
- Lim, K. H., & Wagler, A. (2012). Assessing impulsive-analytic disposition: The Likelihood-to-Act survey and other instruments. In T. Y. Tso (Ed.), *Proceedings of the Thirty-sixth Conference of the International Group for the Psychology of Mathematics Education* (Vol. 3, pp. 131-138). Taipei, Taiwan. [http://works.bepress.com/cgi/viewcontent.cgi?article=1035&context=kien\\_lim](http://works.bepress.com/cgi/viewcontent.cgi?article=1035&context=kien_lim)
- Lim, K. H., & Wagler, A. (2012). Impulsive-analytic disposition in mathematical problem solving: A survey and a mathematics test. In J. Dindyal et al. (Eds.), *Proceedings of the Thirty-fifth Annual Conference of the Mathematics Education Research Group of Australasia* (p. 457-464). Singapore: National Institute of Education. [http://works.bepress.com/cgi/viewcontent.cgi?article=1033&context=kien\\_lim](http://works.bepress.com/cgi/viewcontent.cgi?article=1033&context=kien_lim)
- Lim, K. H. (2012). The hammer-and-nail phenomenon in mathematics education. In J. Dindyal et al. (Eds.), *Proceedings of the Thirty-fifth Annual Conference of the Mathematics Education Research Group of Australasia* (p. 449-456). Singapore: National Institute of Education. [http://works.bepress.com/cgi/viewcontent.cgi?article=1027&context=kien\\_lim](http://works.bepress.com/cgi/viewcontent.cgi?article=1027&context=kien_lim)
- Lim, K. H., & Morera, O. (2011). Impulsive-analytic disposition: Instrument pilot testing. In L. R. Wiest & T. Lamberg (Eds.), *Proceedings of the Thirty-third Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 284-292). Reno, NV: University of Nevada. [http://works.bepress.com/cgi/viewcontent.cgi?article=1023&context=kien\\_lim](http://works.bepress.com/cgi/viewcontent.cgi?article=1023&context=kien_lim)
- Freudenthal, E., Duval, A., Hug, S., Ogrey A. N., Lim, K., Tabor, C., & Gonzalez, R. (2011). Planting the seeds of computational thinking: An introduction to programming suitable for inclusion in STEM curricula. *Proceedings of the 118<sup>th</sup> American Society for Engineering Education Annual Conference & Exposition* (12 pp.). Vancouver, Canada. [http://works.bepress.com/cgi/viewcontent.cgi?article=1025&context=kien\\_lim](http://works.bepress.com/cgi/viewcontent.cgi?article=1025&context=kien_lim)
- Lim, K. H., & Mendoza, M. (2010). Inferring impulsive-analytic disposition from written responses. In P. Brosnan, D. B. Erchick, D. B. & L. Flevares, L. (Eds.), *Proceedings of the Thirty-second Annual Meeting of the North American Chapter of the International Group for the Psychology of*

*Mathematics Education* (pp. 759-767). Columbus: Ohio State University.  
[http://works.bepress.com/cgi/viewcontent.cgi?article=1020&context=kien\\_lim](http://works.bepress.com/cgi/viewcontent.cgi?article=1020&context=kien_lim)

- Lim, K. H., & Morera, O. (2010). Addressing impulsive disposition: Using non-proportional problems to overcome overgeneralization of proportionality. In *Online Proceedings for the Thirteenth SIGMAA on Research in Undergraduate Mathematics Education Conference* (8 pp.). Raleigh, NC. <http://sigmaa.maa.org/rume/crume2010/Archive/Lim.pdf>
- Lim, K. H., Morera, O., & Tchoshanov, M. (2009). Assessing problem-solving dispositions: Likelihood-to-act survey. In S.L. Swars, D.W. Stinson & S. Lemons-Smith (Eds.), *Proceedings of the Thirty-first Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 700-708). Atlanta: Georgia State University.  
[http://works.bepress.com/cgi/viewcontent.cgi?article=1013&context=kien\\_lim](http://works.bepress.com/cgi/viewcontent.cgi?article=1013&context=kien_lim)
- Lim, K. H. (2007). Improving students' algebraic thinking: The case of Talia. In J. Woo, H. Lew, K. Park, & D. Seo (Eds.), *Proceedings of the Thirty-first Conference of the International Group for the Psychology of Mathematics Education* (Vol. 3, pp. 193-200). Seoul: The Korea Society of Educational Studies in Mathematics.  
[http://works.bepress.com/cgi/viewcontent.cgi?article=1001&context=kien\\_lim](http://works.bepress.com/cgi/viewcontent.cgi?article=1001&context=kien_lim)
- Lim, K. H. (2006). Characterizing students' thinking: Algebraic inequalities and equations. In S. Alatorre, J. L. Cortina, M. Sáiz & A. Méndez (Eds.), *Proceedings of the Twenty-eighth Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (Vol. 2, pp. 102-109). Mérida, Yucatán, México: Universidad Pedagógica Nacional. [http://works.bepress.com/cgi/viewcontent.cgi?article=1002&context=kien\\_lim](http://works.bepress.com/cgi/viewcontent.cgi?article=1002&context=kien_lim)
- Harel, G., & Lim, K. H. (2004). Mathematics teachers' knowledge base: Preliminary results. In M. J. Høines & A. B. Fuglestad (Eds.), *Proceedings of the Twenty-eighth Conference of the International Group for the Psychology of Mathematics Education* (Vol. 3, pp. 25-32). Norway: Bergen University College. [http://emis.impa.br/EMIS/proceedings/PME28/RR/RR268\\_Harel.pdf](http://emis.impa.br/EMIS/proceedings/PME28/RR/RR268_Harel.pdf)

## NON-REFEREED PUBLICATIONS

- Lim, K. H., & Dillon, F. (2012). By way of introduction: Fostering mathematical reasoning. *Mathematics Teaching in the Middle School*, 17(6), 316.
- Selden, A., & Lim, K. H. (2010). Continuing discussion of mathematical habits of mind. In P. Brosnan, D. B. Erchick, D. B. & L. Flevaris, L. (Eds.), *Proceedings of the Thirty-second Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1580-1589). Columbus: Ohio State University.  
[http://works.bepress.com/cgi/viewcontent.cgi?article=1021&context=kien\\_lim](http://works.bepress.com/cgi/viewcontent.cgi?article=1021&context=kien_lim)
- Lim, K. H., & Selden, A. (2009). Mathematical habits of mind. In S.L. Swars, D.W. Stinson & S. Lemons-Smith (Eds.), *Proceedings of the Thirty-first Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1576-1583). Atlanta: Georgia State University.  
[http://works.bepress.com/cgi/viewcontent.cgi?article=1012&context=kien\\_lim](http://works.bepress.com/cgi/viewcontent.cgi?article=1012&context=kien_lim)
- Lim, K. H. (2008). Advancing U.S. pre-service teachers' mathematical sophistication via mathematical tasks. *EduMath (An Official Publication of the Hong Kong Association for Mathematics Education)*, 27, 2-24.  
[http://works.bepress.com/cgi/viewcontent.cgi?article=1007&context=kien\\_lim](http://works.bepress.com/cgi/viewcontent.cgi?article=1007&context=kien_lim)
  - Translated as 通过数学任务提高美国职前教师的数学成熟性 by Y. Pang and R. Zhao, and published in *Journal of Mathematics Education*, 18(3), 59-65, (2009).
- Lim, K. H. (2008). Mathematical knowledge for pre-service teachers. In L. D. Miller & S. R. Saunders (Eds.), *Proceedings of the US-Sino Workshop on Mathematics and Science Education: Common Priorities that Promote Collaborative Research* (pp. 92-98). Murfreesboro: Middle Tennessee State University.  
[http://works.bepress.com/cgi/viewcontent.cgi?article=1006&context=kien\\_lim](http://works.bepress.com/cgi/viewcontent.cgi?article=1006&context=kien_lim)

- Selden, A., & Lim, K. (2008). Developing mathematical habits of mind. *MAA Focus*, 28(3), 11-12.
- Lim, K. H. (2006). *Students' mental acts of anticipating in solving problems involving algebraic inequalities and equations*. Ph.D. dissertation, University of California, San Diego and San Diego State University, United States. (Publication No. AAT 3222037). Published as a book in 2008 by VDM Verlag Dr. Müller.

### CONFERENCE PRESENTATIONS (INTERNATIONAL)

- Lim, K. H., & Wagler, A. (July 19, 2012). *Assessing impulsive-analytic disposition: The Likelihood-to-Act survey and other instruments*. Research report present at the Thirty-sixth Conference of the International Group for the Psychology of Mathematics Education, Taipei, Taiwan.
- Lim, K. H., & Wagler, A. (July 5, 2012). *Impulsive-analytic disposition in mathematical problem solving: A survey and a mathematics test*. Research report present at the Thirty-fifth Annual Conference of the Mathematics Education Research Group of Australasia, Singapore.
- Lim, K. H., Freudenthal, E., Duval, A., & Wagler, A. (July 5, 2012). *iMPaCT-MATH: Programing as a means to motivate exploration of foundational algebraic concepts. Short pedagogical presentation* at the Thirty-fifth Annual Conference of the Mathematics Education Research Group of Australasia, Singapore.
- Lim, K. H. (July 4, 2012). *The hammer-and-nail phenomenon in mathematics education*. Research report present at the Thirty-fifth Annual Conference of the Mathematics Education Research Group of Australasia, Singapore.
- Lim, K. H. (July 10, 2007). *Improving Students' Algebraic Thinking: The case of Talia*. Research report presented at the Thirty-first Conference of the International Group for the Psychology of Mathematics Education, Seoul, Korea.
- Lim, K. H. (Nov 11, 2006). *Characterizing Students' Thinking: Algebraic Inequalities and Equations*. Research report presented at the Twenty-eighth Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Mérida, México.
- Harel, G. & Lim, K. (July 15, 2004). *Mathematics Teachers' Knowledge Base: Preliminary Results*. Research report presented at the Twenty-eighth Conference of the International Group for the Psychology of Mathematics Education, Bergen, Norway.

### CONFERENCE PRESENTATIONS (NATIONAL)

- Lim, K. H. (Jan 11, 2013). *General and Mathematical Habits of Mind: An Overview..* Paper presented at the Joint Mathematics Meetings, San Diego, CA.
- Lim, K. H. (Jan 14, 2012). *Using Error-Eliciting Problems via a Classroom Voting System in a Capstone Course to Foster Conceptual Understanding and Mathematical Habits of Mind*. Paper presented at the Joint Mathematics Meetings, Boston, MA.
- Lim, K. H., & Morera, O. (Oct 21, 2011). *Impulsive-Analytic Disposition: Instrument Pilot Testing*. Research report presented at the Thirty-third Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Reno, NV.
- Lim, K. H., & Mendoza, M. (Oct 29, 2010). *Inferring Impulsive-Analytic Disposition from Written Responses*. Research report presented at the Thirty-second Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Columbus, OH.
- Lim, K. H., & Morera, O. (Feb 26, 2010). *Addressing Impulsive Disposition: Using Non-proportional Problems to Overcome Overgeneralization of Proportionality*. Paper presented at the Thirteenth SIGMAA on Research in Undergraduate Mathematics Education Conference, Raleigh, NC.

- Lim, K. H. (Jan 14, 2010). *Bridging Proportional Reasoning and Algebraic Reasoning: A Focus on Co-variation and Invariance Using Contextualized Problems*. Paper presented at the Joint Mathematics Meetings, San Francisco, CA.
- Lim, K. H. (Jan 13, 2010). *Helping Pre-Service Teachers Address their Tendency of Overgeneralizing Proportionality: Using Non-proportional Situations and Focusing on Quantities and Relationships*. Paper presented at the Joint Mathematics Meetings, San Francisco, CA.
- Lim, K. H., Morera, O., & Tchoshanov, M. (Sep 25, 2009). *Assessing Problem-solving Dispositions: Likelihood-to-act survey*. Brief research report presented at the *Thirty-first Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, Atlanta, GA.
- Lim, K. H. (Sep 24, 2009). *Undesirable Habits of Mind of Pre-service Teachers*. In K. H. Lim & A. Selden (Chairs), *Mathematical habits of mind*. Working group conducted at the *Thirty-first Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, Atlanta, GA.
- Lim, K. H. (Jan 6, 2009). *Undesirable Habits of Mind of Pre-service Teachers: Strategies for Addressing Them*. Paper presented in an AMS-MAA-MER Special Session on Mathematics and Education Reform at the Joint Mathematics Meetings, Washington, DC.
- Lim, K. H. (Aug 2, 2008). *Using Prediction Items and Clickers to Address Misconceptions*. Paper presented in the "Innovations in Mathematics Education" Contributed Paper Session at MathFest, Madison, WI.
- Lim, K. H. (Aug 2, 2008). *Addressing the Hammer-and-nail Phenomenon in Mathematics Classrooms*. Paper presented in a General Contributed Paper Session at MathFest, Madison, WI.
- Lim, K. H. (June 23, 2008). *Mathematical Knowledge for Pre-service Teachers: Ways of Understanding and Ways of Thinking*. Topic session paper presented at the US-Sino Workshop on Mathematics and Science Education: Common Priorities that Promote Collaborative Research, Murfreesboro, TN.
- Lim, K. H. (Oct 26, 2007). *Reasons for Investigating Prediction in Mathematics Education*. In K. H. Lim (Chair), *Use of prediction in mathematics classroom*. Discussion group conducted at the *Twenty-ninth Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, Stateline, NV.
- Lim, K. H. (Apr 17, 2007). *Students' Mental Acts of Anticipating: Predicting and Foreseeing*. Paper discussed (round-table format) at The Annual Meeting of American Educational Research Association, Chicago, IL.
- Lim, K. H. (Oct 28, 2002). *TIMMS 1999 Data: One Singaporean's Perspective*. Short oral session presented at the *Twenty-fourth Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, Athens, GA.

## CONFERENCE PRESENTATIONS (REGIONAL)

- Lim, K. H. (Apr 6, 2012). *Using Contra Problems to Make Students Think*. Session presented at the 2012 American Society of Engineering Education Gulf Southwest Annual Conference, El Paso, TX.
- Lim, K. H. (Nov 3, 2011). *Helping Students Overcome Their Tendency to Apply Procedures without Thinking*. Paper presented at the NCTM 2011 Regional Conference and Exposition: Albuquerque, NM.
- Serpa, L., Lim, K. H., & Esposito, E. (Mar 21, 2011). *Connecting Math and Science*. Session presentation at the Math, Science, and Technology Teacher Preparation Academies: Leaders Collaboration Conference, Arlington, TX.

- Lim, K. H. (July 17, 2010). *The Hammer-and-nail Phenomenon: Addressing Students' Impulsive Disposition in Mathematics Classrooms*. Paper presented at the Conference for the Advancement of Mathematics Teaching, San Antonio, TX.
- Lim, K. H. (July 16, 2010). *Using Mathematical Tasks to Provoke Intellectual Needs*. Paper presented in an AMTE-Tx session at the Conference for the Advancement of Mathematics Teaching, San Antonio, TX.

## CONFERENCE PRESENTATIONS (LOCAL)

- Lim, K. H. (Mar 1, 2012). *Using Problem-Based Learning to Foster Discipline-Specific Habits of Mind*. Paper presented at the International Sun Conference on Teaching and Learning, El Paso, TX.
- Lim, K. H. (Feb 25, 2012). *Helping Students Overcome Their Tendency to Apply Procedures without Thinking*. Session presented at the Kaleidoscope of Teaching Math and Science Conference, El Paso, TX.
- Lim, K. H. (Mar 10, 2011). *Using Clickers and Prediction Items to Address Students' Mathematical Misconceptions*. Paper presented at the International Sun Conference on Teaching and Learning, El Paso, TX.
- Lim, K. H. (Mar 5, 2011). *Using Prediction and Clickers to Address Students' Mathematical Misconceptions*. Session presented at the Kaleidoscope of Teaching Math and Science Conference, El Paso, TX.
- Lim, K. H., & Morera, O. (June 2, 2010). *Assessing Students' Impulsive Disposition*. Paper presented at the TNE Research Symposium, El Paso, TX.
- Lim, K. H., & Morera, O. (Mar 4, 2010). *Assessing Students' Impulsive Disposition*. Paper presented at the International Sun Conference on Teaching and Learning, El Paso, TX.
- Lim, K. H. (Mar 4, 2010). *Advancing Pre-Service Teachers' Mathematical Sophistication*. Paper presented at the International Sun Conference on Teaching and Learning, El Paso, TX.
- Lim, K. H. (Feb 27, 2009). *Addressing Students' Impulsive Disposition*. Paper presented at the International Sun Conference on Teaching and Learning, El Paso, TX.
- Lim, K. H. (Sep 27, 2008). *Using Good Math Problems and Clickers to Make Students "Think"*. Session presented at the Fourth Annual A Better Beginning Conference (ABC), El Paso, TX.
- Lim, K. H. (Oct 20, 2007). *Flatland the Movie: Pedagogical Considerations*. Session presented at the Greater El Paso Council of Teachers of Mathematics (GEPCTM) Fall Conference, El Paso, TX.
- Lim, K. H. (Sep 29, 2007). *Creating an Intellectual Need for the Mathematics our Students Learn*. Session presented at the Third Annual A Better Beginning Conference (ABC), El Paso, TX.
- Lim, K. H. (June 18, 2007). *Improving Students' Algebraic Thinking*. Session presented at The Third International Summer Research Symposium, El Paso, TX.
- Lim, K. H. (Oct 21, 2006). *How Do Students "Think" While Solving Problems in Algebra?* Session presented at the Greater El Paso Council of Teachers of Mathematics (GEPCTM) Fall Conference, El Paso, TX.

## POSTER PRESENTATION

- Wangchuk, S. & Lim, K. H. (Oct 30, 2010). *Introducing Impulsive Disposition via Math Problems*. Poster presented at the Thirty-second Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Columbus, OH.



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## MATH EDUCATION SEMINARS

- Lim, K. H. (Sep 23, 2011). *Students' Problem-Solving Disposition: A Continuum from Impulsive to Analytic*. Colloquium talk for the Department of Mathematical Sciences, UTEP, El Paso, TX.
- Lim, K. H. (Apr 9, 2010). *The Hammer-And-Nail Phenomenon in Mathematics Classrooms*. Colloquium talk for the Department of Mathematical Sciences, UTEP, El Paso, TX.
- Lim, K. H. (Apr 8, 2009). *Co-variation and Invariance in Proportional and Non-Proportional Situations*. Colloquium talk for the Department of Mathematical Sciences, UTEP, El Paso, TX.
- Lim, K. H. (June 2, 2008). *Advancing Pre-Service Teachers' Mathematical Sophistication via Mathematical Tasks*. Seminar conducted at the National Institute of Education, Singapore.
- Lim, K. H. (May 22, 2008). *Advancing Pre-Service Teachers' Mathematical Sophistication via Mathematical Tasks*. Seminar conducted at the Hong Kong Baptist University, Hong Kong.
- Lim, K. H. (Apr 4, 2008). *Advancing Students' Mathematical Sophistication via Mathematical Tasks*. Colloquium talk for the Department of Mathematical Sciences, UTEP, El Paso, TX.

## PROFESSIONAL DEVELOPMENT WORKSHOPS

- Lim, K. H., & Gabaldon, L. A. (Aug 17, 2012). "Teachers as Learners" Activity within a one-day workshop, *Teachers-Teaching-Teachers Math Workshop*, for UTEP and EPCC instructors of math courses for pre-service K-8 teachers, El Paso Community College, El Paso, TX.
- Lim, K. H. (June 18-21, 2012). *Fostering Number Sense via Solving Math Problems*. A four-morning professional development workshop for Advanced 6<sup>th</sup> Grade Mathematics Teachers, Ysleta Independent School District, El Paso, TX.
- Lim, K. H. (June 11-14, 2012). *Fostering Number Sense via Solving Math Problems*. A four-morning professional development workshop for Advanced 7<sup>th</sup> Grade Mathematics Teachers, Ysleta Independent School District, El Paso, TX.
- Lim, K. H. (Dec 7, 2011). *Problem Based Learning*. A two-hour professional development workshop for 6<sup>th</sup> Grade Mathematics Teachers, Ysleta Independent School District, El Paso, TX.
- Lim, K. H. (Oct 28, 2011). *Advancing Students from Being Impulsive to Being Analytic*. A half-day job alike for 6<sup>th</sup>-7<sup>th</sup> Grade Mathematics Teachers, Ysleta Independent School District, El Paso, TX.
- Lim, K. H. (June 27-28, 2011). *Fostering Problem Solving and Conceptual Understanding of Ratios and Proportions via Cognitively Challenging Tasks*. A two-day professional development workshop for Advanced 7<sup>th</sup> Grade Mathematics Teachers, Ysleta Independent School District, El Paso, TX.
- Lim, K. H. (June 25-26, 2011). *Fostering Problem Solving and Conceptual Understanding of Ratios and Proportions via Cognitively Challenging Tasks*. A two-day professional development workshop for Advanced 6<sup>th</sup> Grade Mathematics Teachers, Ysleta Independent School District, El Paso, TX.
- Lim, K. H. (Feb 28, 2011). *Fostering Conceptual Understanding and Mathematical Thinking: Sample Space and Probability*. A three-hour professional development workshop for 6<sup>th</sup> Grade Mathematics Teachers, Ysleta Independent School District, El Paso, TX.
- Lim, K. H. (Jan 31, 2011). *Fostering Conceptual Understanding and Mathematical Thinking: Signed Numbers and Operations*. A three-hour professional development workshop for 6<sup>th</sup> Grade Mathematics Teachers, Ysleta Independent School District, El Paso, TX.
- Lim, K. H. (Dec 9, 2010). *Fostering Conceptual Understanding and Mathematical Thinking: Areas and Perimeters*. A three-hour professional development workshop for 6<sup>th</sup> Grade Mathematics Teachers, Ysleta Independent School District, El Paso, TX.
- Lim, K. H. (Oct 7, 2010). *Fostering Conceptual Understanding and Mathematical Thinking: Fractions and Operations*. A three-hour professional development workshop for 6<sup>th</sup> Grade Mathematics Teachers, Ysleta Independent School District, El Paso, TX.
- Lim, K. H. (Sep 9, 2010). *Using Mathematical Tasks to Provoke Intellectual Understanding*. A seminar on for the YISD 6<sup>th</sup> Grade Mathematics Professional Learning Community, Ysleta Independent School District, El Paso, TX.

- Lim, K. H. (July 19-20, 2010). *Mathematical Knowledge for Teaching Fractions with an Emphasis on Conceptual Understanding*. A two-day professional development workshop for 6<sup>th</sup> Grade Mathematics Teachers, Ysleta Independent School District, El Paso, TX.
- Lim, K. H. (May 15, 2010). *Mathematical Thinking versus Mathematical Understanding*. A one-day workshop for the *UTEP Master Teacher Academies*, UTEP, El Paso, TX.
- Lim, K. H. (Aug 18, 2009). *In Response to Change in State Curriculum*, A one-day workshop for UTEP and EPCC instructors on teaching math courses for pre-service K-8 teachers, UTEP, El Paso, TX.
- Lim, K. H. Woo S., McCarty, K., & Zamora, T. (July 27-28, 2009). *A Focus on Measurement*. A two-day professional development workshop for 6<sup>th</sup> and 7<sup>th</sup> Grade Mathematics Teachers, Ysleta Independent School District, El Paso, TX.
- Lim, K. H. (Aug 18, 2008). *Reconceptualizing Mathematics*, A one-day workshop for UTEP instructors of math courses for pre-service K-8 teachers, UTEP, El Paso, TX.
- Lim, K. H. & Lopez, B. (Aug 20, 2008). *Motivating the unmotivated*. A one-day professional development workshop for 6th Grade Mathematics Teachers, Ysleta Independent School District, El Paso, TX.

## DIRECTED STUDENT LEARNING

### Thesis Committee Chair for Master's Students

- Jeremy Rameriz (October 2011 - Present)
  - Title: *The Effectiveness of a Professional Development Workshop in preparing Algebra 1 Teachers for implementation of IMPaCT Learning Activities in their Classrooms*
- Miguel Mendoza (Spring 2009 - present)
  - Title: *Investigating the Efficacy of a Likelihood-to-Act Survey Intended to Gauge Mathematics Problem-Solving Disposition along the Impulsive-Analytic Dimension*
  - He presented a brief research report on his research at the 2012 PME-NA Conference, and co-presented a research report on a related topic at the 2010 PME-NA Conference.
- Tami Dashley (Fall 2008 – May 2010)
  - Title: *Use of Prediction and Classroom Voting to Address Student Misconceptions in Probability* (co-chair with Dr. Lesser)
  - She presented her research at the 2010 Joint Mathematical Meetings and received the Outstanding MATM Thesis award in May 2010.

### Other Graduate Students Supervised

- Wendy Ahumada (Fall 2008 - Spring 2010)
  - Title: *An Instructional Approach for Enlarging Figures: Orthogonal Stretching with Different Factors*
  - She received the Outstanding Graduate Student - MATM Cohort award in Dec 2010.
- Samten Wangchuk (Fall 2009 - Fall 2010)
  - Title: *Using Clickers to Assess Teachers' Impulsive Disposition*
  - He gave a poster presentation at the 2010 PME-NA and received the Outstanding Graduate Student - MATM award in Dec 2010.

### Undergraduate Students Supervised

- Shannon Murphy (Sep 2011 – Dec 2011)
  - Title: *Using a Double Number Line to Increase Understanding of a Cartesian Graph*
  - For her undergraduate honors thesis, she investigated the affordances of double number line as a representation to help students understand the power of Cartesian graphs.
- Angel Aguero (Summer 2009)
  - A participant in the 2008 Summer Research Academy, organized by Louis Stokes Alliance for Minority Participation.
  - He analyzed students' written work for a pilot study on use of clickers to address mathematical misconceptions.



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## TEACHING ACTIVITIES

### Professional Development for Funded-Projects at UTEP

- Teacher Quality Grant summer workshops for enhancing middle-school teachers' mathematical knowledge (Summer 2008 & Summer 2009 & Summer 2012)
- Teacher Quality Grant bimonthly evening workshops on implementing best-practices in middle-school math classrooms (Fall 2010 – Spring 2012)
- SABEMAS bimonthly evening workshops on designing curricular activities for integrating math and science: co-taught with Dr. Serpa (Fall 2010 – Spring 2012)

### Graduate Courses Taught at UTEP

- Introduction to Research in Mathematics Education – Part 1
- Introduction to Research in Mathematics Education – Part 2
- Graduate Research (for MAT-Math graduate students)
- Seminar: Number Concepts, Probability & Statistics (for in-service 4-8 math teachers)
- Seminar: Algebra and Geometry (for in-service 4-8 math teachers)

### Undergraduate Courses Taught at UTEP

- Fundamental Math Concepts (a capstone course for 4-8 prospective teacher math specialists)
- Proportional and Algebraic Reasoning II (a capstone course for 4-8 pros. teachers generalists)
- Proportional and Algebraic Reasoning I (for 4-8 prospective teachers)
- Proportion and Algebra (for EC-4 prospective teachers)
- Geometry & Measurement (for 4-8 prospective teachers)
- Number Concepts (for EC-4 and 4-8 prospective teachers)

### Undergraduate Courses Taught at Other Institutions

- Elementary Topics in Mathematics for Pre-service Teachers
- Calculus 1
- Algebra & Trigonometry
- College Algebra
- Developmental Math Courses:  
Intermediate Algebra, Beginning Algebra, Pre-Algebra, and Basic College Mathematics

## ACADEMIC EMPLOYMENT

Associate Professor at the University of Texas at El Paso (2012-present)

Assistant Professor at the University of Texas at El Paso (2006-2012)

Mathematics Instructor at San Diego State University (2004-2006)

Mathematics Instructor at the University of Wyoming (1999-2001)

Adjunct Faculty Member at the Mohave Community College, Kingman, Arizona (1996; 1998-99)

Teacher at Jin Tai Secondary School, Singapore (1991, Temporary position, Grade 9-10 Math)

Teacher at Blangah Rise Primary School, Singapore (1988, Temporary position, Grade 4)

Private Math Tutor for approximately 15 students (1983-1991, 3 months – 2 years each, Grade 7-12)

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## OTHER PROFESSIONAL ACTIVITIES

### Fellowship

- Project NExT Fellow 2007: New Experiences in Teaching (NExT) is a professional development program for new or recent Ph.D.s in the Mathematical Science

### Committee

- Member of the Committee on the Mathematical Education of Teachers (COMET), Mathematical Association of America (MAA), 2009-present

### Conference Activities

- Organizer of a Contributed Paper Session on *Fostering Mathematical Habits of Mind* at the Joint Mathematics Meetings, 2013
- Organizing Committee for the 2<sup>nd</sup> Kaleidoscope of Teaching Math and Science Conference, 2012
- Organizing Committee for the 1<sup>st</sup> Kaleidoscope of Teaching Math and Science Conference, 2011
- Co-organizer of a Contributed Paper Session on *Engaging Students with Classroom Voting* at the Joint Mathematics Meetings, 2010
- Co-chair of a Working Group on *Mathematical Habits of Mind* at the 31<sup>st</sup> & 32<sup>nd</sup> Annual Meetings of the PME-NA, 2009, 2010
- Co-organizer of a AMS-MAA-MER Panel Session on *Helping Students Develop Mathematical Habits of Mind* at the Joint Mathematics Meetings, 2009
- Co-chair of a Project NExT Panel Session on *Helping Students Develop Mathematical Habits of Mind without Compromising Key Concepts from the Syllabus* at the Joint Mathematics Meeting, 2008
- Chair of a Discussion Group on *the Use of Prediction in Mathematics Classroom* in the 29th Annual Meeting of the PME-NA, 2007
- Member of the Program Committee for the PME-NA Conference, 2004

### Reviewing of Journal Articles

- International Journal of Mathematics Education in Science and Technology, 2011, 2012
- Journal for Research in Mathematics Education: 2010
- Journal for the Research Center for Educational Technology: 2010
- Mathematics Teacher: 2012
- Mathematics Teaching in the Middle School: 2007, 2008, 2011
- Mathematics Thinking and Learning: 2009-2012

### Reviewing of Conference Proposals

- American Educational Research Association (AMTE) Conference: 2007
- Association of Mathematics Teacher Educators (AMTE) Conference: 2009, 2012
- Psychology of Mathematics (PME) Conference: 2005-2012
- PME-NA (North America) Conference: 2002, 2005, 2007-2012

### Professional Memberships

- American Educational Research Association (AERA)
- Association of Mathematics Teacher Educators (AMTE)
- Mathematical Association of America (MAA)
- National Council of Teachers of Mathematics (NCTM)
- Psychology of Mathematics (PME)