

# 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*

### AWARDS & FELLOWSHIP

- 2016 Giraffe Award, UTEP Center for Excellence in Teaching and Learning (May 4)
- 2014 SoTL Proposal Award, UTEP Center for Excellence in Teaching and Learning (Fall)
- 2014 MAA's Section Award for Distinguished College or University Teaching of Mathematics (April 15)
- 2014 Harry J. Meeuwseu Scholarship of Teaching and Learning Award. (March 7)
- 2012 University of Texas Regents Outstanding Teaching Award (August 22)
- 2012 Excellence in Teaching Award, College of Science (May 4)
- 2011 Distinguished Achievement Award for Teaching, College of Science. (May 6)
- 2011 Sun Conference Scholarship of Teaching and Learning Award. (March 11)

### GRANTS

#### Teacher Quality Program (2014-16)

Title: *Feeder Pattern Mathematics and Science Integration*

Role: Co-PI, Co-plan and co-conduct workshops for teachers to integrate math and science

Awarded \$495,000 by Texas Higher Education Coordinating Board.

#### 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.

## REFEREED JOURNAL ARTICLES

- Lim, K. H., & Matsuura, A. (2023). Blending Mathematics Teaching with Kindness. *Journal of Humanistic Mathematics*, 13(1), 217-231.
- Lim, K. H., & Yakes, C. (2021). Using mathematical equations to communicate and think about karma. *Journal of Humanistic Mathematics*, 11(1), 300-317.
- Lim, K. H. (2020). Addressing the Hammer-and-Nail Phenomenon. *Mathematics Teacher: Learning and Teaching PK-12*, 113(6), 487-495.
- Lim, K. H. (2018). Using math magic to reinforce algebraic concepts: An exploratory study. *International Journal of Mathematical Education in Science and Technology*, 50(5), 747-765.
- Lim, K. H., & Wilson, A. D. (2018). Flipped learning: Embedding questions in videos. *Mathematics Teaching in the Middle School*, 23(7), 378-385.
- Lim, K. H. (2016). Fostering algebraic understanding through math magic. *Mathematics Teacher*, 110(2), 110-118.
- Lim, K. H. (2014). Curiosity and connections. *Mathematics Teacher*, 108(4), 288-295.
- Lim, K. H. (2014). Error-eliciting problems: Fostering understanding and thinking. *Mathematics Teaching in the Middle School*, 20(2), 106-114.
- 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

- Freudenthal, E., Lim, K., Kranz, S., & Tabor, C. (2013). *Using Programming to Strengthen Mathematics Learning in 9th Grade Algebra Classes. Proceedings of the 120<sup>th</sup> American Society for Engineering Education Annual Conference* (14 pp.). Atlanta, Georgia.  
<http://www.asee.org/public/conferences/20/papers/8010/view>
- 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. 218-221). Kalamazoo, Michigan: Western Michigan University. [https://works.bepress.com/kien\\_lim/30/](https://works.bepress.com/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. [https://works.bepress.com/kien\\_lim/29/](https://works.bepress.com/kien_lim/29/)
- 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. [https://works.bepress.com/kien\\_lim/28/](https://works.bepress.com/kien_lim/28/)
- 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. [https://works.bepress.com/kien\\_lim/24/](https://works.bepress.com/kien_lim/24/)
- Kranz, S., Tabor, C., Duval, A., Lim, K., Wagler, A., & Freudenthal, F. (2012). Classroom games and activities that motivate exploration of foundational understandings of mathematics concepts while inadvertently scaffolding computational thinking and engineered design. *Proceedings of the 119<sup>th</sup> American Society for Engineering Education Annual Conference* (12 pp.). San Antonio, Texas. <http://www.asee.org/public/conferences/8/papers/5348/view>
- 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. [https://works.bepress.com/kien\\_lim/23/](https://works.bepress.com/kien_lim/23/)
- Freudenthal, E., Duval, A., Hug, S., Ogrey A. N., Lim, K., Tabor, C., Gonzalez, R., et al. (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://www.asee.org/public/conferences/1/papers/2702/view>
- Lim, K. H., & Mendoza, M. (2010). Inferring impulsive-analytic disposition from written responses. 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. 759-767). Columbus: Ohio State University. [https://works.bepress.com/kien\\_lim/21/](https://works.bepress.com/kien_lim/21/)
- 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. [https://works.bepress.com/kien\\_lim/14/](https://works.bepress.com/kien_lim/14/)
- 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. [https://works.bepress.com/kien\\_lim/2/](https://works.bepress.com/kien_lim/2/)
- 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. [https://works.bepress.com/kien\\_lim/3/](https://works.bepress.com/kien_lim/3/)
- 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

- Chuca, I., Duval, A., & Lim, K. (2019). *Our Students Are Your Students Are Our Students: a University-Community College Collaboration*. AMS Blogs on Teaching and Learning Mathematics. <https://blogs.ams.org/matheducation/2019/05/20/>
- Fonger, N. L., & Lim, K. (2018). The promise of mindfulness as a proposed intervention to alleviate the delimiting effects of math anxiety. In D. Grimes, Q. Wang, & H. Lin (Eds.), *Empirical studies of contemplative practices* (pp. 165-180). NY: Nova Science Publishers.
- 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. [https://works.bepress.com/kien\\_lim/22/](https://works.bepress.com/kien_lim/22/)
- 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. [https://works.bepress.com/kien\\_lim/13/](https://works.bepress.com/kien_lim/13/)
- 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. [https://works.bepress.com/kien\\_lim/8/](https://works.bepress.com/kien_lim/8/)
  - 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. [https://works.bepress.com/kien\\_lim/7/](https://works.bepress.com/kien_lim/7/)
- 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., & Sotelo, H. Y. (July 21, 2024). *Creating a Positive Learning Environment: Preliminary Results*. Oral communication presented at the Forty-seventh Conference of the International Group for the Psychology of Mathematics Education, Auckland, New Zealand.
- Lim, K. H., & Yeh, L. (July 17, 2017). *Incorporating Mindfulness in a Math Course for Prospective Teachers*. Oral communication presented at the Forty-first Conference of the International Group for the Psychology of Mathematics Education, Singapore.
- Lim, K. H., & Wagler, A. (July 19, 2012). *Assessing impulsive-analytic disposition: The Likelihood-to-Act survey and other instruments*. Research report presented 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. (Oct 26, 2023). *Three Keys for Unlocking the Hearts and Minds of Math Students*. Session presented at the 2022 NCTM Annual Meeting & Exposition, Washington DC.
- Lim, K. H. (Sep 30, 2022). *Fostering a Growth Mindset: The Importance of Kindness and the Need for Empathy*. Session presented at the 2022 NCTM Annual Meeting & Exposition, Los Angeles, CA.
- Lim, K. H., & Wilson, A. D. (Jan 29, 2016). *Flipped Learning: Enhancing Prospective Teachers' Engagement by Embedding Questions in Videos*. Paper presented at the Twentieth Annual AMTE Conference, Irvine, CA.
- Lim, K. H., & Freudenthal, E. (Jan 18, 2014). *iMPaCT-Math: Using Programming Activities to Motivate Exploration of Foundational Concepts in High-School Algebra*. Paper presented at the Joint Mathematics Meetings, Baltimore, MD.
- Lim, K. H. (Jan 16, 2014). *Using Multiple-Choice Items to Assess Students Individually and Immediate Feedback Assessment Technique (IF-AT) to Foster Student Engagement and Small Group Discussion*. Paper presented at the Joint Mathematics Meetings, Baltimore, MD.
- Lim, K. H., & Freudenthal, E. (Jan 26, 2013). *Using Programming Activities to Motivate Exploration of Foundational Algebraic Concept*. Paper presented at the Seventeenth Annual AMTE Conference, Orlando, FL.
- 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. (June 26 & 28, 2023). *Growth Mindsets with Kindness in Mind*. Paper presented at the Conference for the Advancement of Mathematics Teaching, Fort Worth, TX.

- Lim, K. H. (June 27, 2023). *How to Engage Students Intellectually Using GeoGebra Apps*. Paper presented at the Conference for the Advancement of Mathematics Teaching, Fort Worth, TX.
- Lim, K. H. (June 26, 2023). *Mathematics & Spirituality: Using Equations to Communicate and Think about Karma*. Paper presented at the Conference for the Advancement of Mathematics Teaching, Fort Worth, TX
- Lim, K. H. (May 21, 2021). *Promoting a Growth Mindset in Math Courses*. Virtual presentation at the New Mexico Mathematical Association of Two-Year Colleges (NMMATYC) Online Conference.
- Lim, K. H. (May 21, 2021). *Online Ice-Breaking Activities via Google Slides*. Virtual presentation at the New Mexico Mathematical Association of Two-Year Colleges (NMMATYC) Online Conference.
- Lim, K. H. (June 25, 2015). *Capitalizing Students' Curiosity Using Provocative Task*. Paper presented at the Conference for the Advancement of Mathematics Teaching, Houston, TX.
- Lim, K. H. (June 24, 2015). *Helping Students Develop Mathematical Process Skills, Really?* Paper presented at the Conference for the Advancement of Mathematics Teaching, Houston, TX.
- Lim, K. H., & Galvan, A. (April 18, 2015). *Using the 5-4-3-2-1 Magic to Reinforce Foundational Algebraic Concepts*. Paper presented at the New Mexico Mathematical Association of Two Year Colleges & Mathematical Association of America Southwestern Section (NMMATYC/MAA-SW) Joint Conference, El Paso, TX.
- Lim, K. H., & Wilson, A. D. (April 18, 2015). *Flipped Learning: Embedded Questions in Videos as a Means to Engage Students*. Paper presented at the New Mexico Mathematical Association of Two Year Colleges & Mathematical Association of America Southwestern Section (NMMATYC/MAA-SW) Joint Conference, El Paso, TX.
- Lim, K. H., & Fanning, W. (April 18, 2015). *Investigating the Ways Students Interpret Fractions and the Dual Personality of Fractions*. Paper presented at the New Mexico Mathematical Association of Two Year Colleges & Mathematical Association of America Southwestern Section (NMMATYC/MAA-SW) Joint Conference, El Paso, TX.
- Freudenthal, E., Carmona, K., Tabor, C., Lim, K. H., & Duval, A. (April 18, 2015). *Using Programming and Flipped Instruction to Reinforce Understandings Related to Proportional Covariation*. Paper presented at the New Mexico Mathematical Association of Two Year Colleges & Mathematical Association of America Southwestern Section (NMMATYC/MAA-SW) Joint Conference, El Paso, TX.
- Lim, K. H. (July 11, 2013). *Using Error-Eliciting Problems to Help Students Overcome Their Impulsive Tendency*. Paper presented in an AMTE-Tx session at the Conference for the Advancement of Mathematics Teaching, San Antonio, TX.
- Lim, K. H., & Jackson, S. (July 10, 2013). *Use Magic to Introduce the Key Concepts of Functions*. Paper presented at the Conference for the Advancement of Mathematics Teaching, San Antonio, TX.
- 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., Gannon, K. A., Smith, E. D., Kreinovich, V. Y., Boehmer, C. R. (August 12, 2022). *Achieving Our Professional and Personal Goals* at the 2022 CFLD Conference (Theme: Enacting Inclusive Excellence Through Leadership, Teaching, and Learning), El Paso, TX.
- Lim, K. H. (Apr 23, 2021). *Interactive-Collaborative Learning via Zoom and Google Slides*. Virtual presentation at the 2021 Sol Conference (Theme: Humanizing Online Education: During Covid-19 and Beyond), El Paso, TX.
- Nunez-Mchiri, G., Lim, K. H., & Boehmer, C. R. (Apr 23, 2021). *Practicing Kindness in an Achievement-oriented Environment*. Virtual presentation at the 2021 Sol Conference (Theme: Humanizing Online Education: During Covid-19 and Beyond), El Paso, TX.
- Lim, K. H. (Oct 19, 2019). *Flipped Learning: Using EdPuzzle to Embed Questions in Videos*. Presented at the mini-CAST 2019 Conference, El Paso, TX.
- Lim, K. H. (Oct 19, 2019). *Infusing our Classrooms with Loving Kindness*. Presented at the mini-CAST 2019 Conference, El Paso, TX.
- Lim, K. H. (Mar 18, 2016). *Watching Mindfulness Videos and Engaging in Guided-Meditation Sessions in a Math Class*. Paper presented at the 13<sup>th</sup> International Sun Conference on Teaching and Learning, El Paso, TX.
- Lim, K. H., & Wilson, A. (Mar 17, 2016). *Flipped Learning: Embedding Questions in Math Videos via Edpuzzle.com*. Paper presented at the 13<sup>th</sup> International Sun Conference on Teaching and Learning, El Paso, TX.
- Freudenthal, E., Carmona, K., & Lim, K. H. (Mar 6, 2015). *Flipping Both Instruction and Conceptual Learning in Multidisciplinary STEM*. Paper presented at the 12<sup>th</sup> International Sun Conference on Teaching and Learning, El Paso, TX.
- Lim, K. H. (Mar 5, 2015). *Making Ideas Stick: Curiosity and Connections*. Paper presented at the 12<sup>th</sup> International Sun Conference on Teaching and Learning, El Paso, TX.
- Paat, Y., & Lim, K. H. (Mar 5, 2015). *Promoting Acts of Kindness in Academic Settings*. Paper presented at the 12<sup>th</sup> International Sun Conference on Teaching and Learning, El Paso, TX.
- Lim, K. H. (March 6, 2014). *Making Ideas Stick: Curiosity and Connections*. Paper presented at the 11<sup>th</sup> International Sun Conference on Teaching and Learning, El Paso, TX.
- Lim, K. H. (Nov 1, 2013). *Helping Students Develop Mathematical Process Skills, Really?* Paper presented at the 2<sup>nd</sup> Annual High School Mathematics Education (HSME) Conference, El Paso, TX.
- Lim, K. H. (Feb 28, 2013). *Making Students Think in Mathematics: Psychological Needs and Intellectual Need*. Paper presented at the International Sun Conference on Teaching and Learning, El Paso, TX.
- Lim, K. H. (Feb 27, 2013). *Use Magic to Introduce the Key Concepts of Functions*. Paper presented at the 1<sup>st</sup> Annual High School Mathematics Education (HSME) Conference, El Paso, TX.



- 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

- Galvan, A., & Lim, K. H. (October 6, 2017). *Prospective Math Teachers' Responses to Magic Activities*. Poster presented at the Thirty-ninth Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education, Indianapolis, IN.
- Lim, K. H., & Wilson, A. (July 22, 2017). *Embedding Questions in Videos for a Hybrid Course*. Poster presented at the Forty-first Conference of the International Group for the Psychology of Mathematics Education, Singapore.
- Lim, K. H., & Sotelo, H. Y. (Oct 15, 2016). *Cultivating Loving Kindness in Our Classrooms*. Poster presented at the 12th Annual ABC Conference, El Paso, TX.
- Lim, K. H., Kreinovich, V., Martinez, A., Díaz, K., & Alvarenga, R. (Apr 25, 2016). *A Culture of Loving Kindness at UTEP*. Mixed media poster presented at the 4th Annual UTEP IDR Symposium: Creating the Space, Culture, and Anchors for Interdisciplinary Research and Education, El Paso, TX.

- Díaz, K., Lim, K. H., Simon, J., Alvarenga, R., Boehmer, C., Martinez, A., et al. (Apr 25, 2016). *Mindfulness in Education*. Mixed media poster presented at the 4th Annual UTEP IDR Symposium: Creating the Space, Culture, and Anchors for Interdisciplinary Research and Education, El Paso, TX.
- Ramirez, J. L., & Lim, K. H. (Nov 17, 2013). *Development of Teachers' Computational Thinking*. Poster presented at the Thirty-fifth Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Chicago, IL.
- 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.

## MATH EDUCATION SEMINARS

- Lim, K. H. (Mar 24, 2023). *Blending Mathematics Teaching with Kindness*. Colloquium talk for the Department of Mathematical Sciences, UTEP, El Paso, TX.
- Lim, K. H. (Feb 26, 2021). *Mathematics & Spirituality: Using Equations to Communicate and Think about Karma*. STEAMERS Seminar, UTEP College of Education, El Paso, TX.
- 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. (Oct 1, 2016). *Experiencing Active Learning as Learners: Investigating Bivariate Data*. A session in the *Fourth Teachers-Teaching-Teachers Math Workshop*, for UTEP and EPCC instructors of math courses for pre-service K-8 teachers, UTEP, El Paso, TX.
- Lim, K. H. (Sep 20, 2014). *Fraction Division: Two Views, and Which is Easier?* A session in the *Second Teachers-Teaching-Teachers Math Workshop*, for UTEP and EPCC instructors of math courses for pre-service K-8 teachers, UTEP, El Paso, TX.
- Lim, K. H. (Aug 30, 2014). *Are Students Thinking in Math Classrooms?* A reflect-discuss session for participants in the iMPaCT Lessons for Teachers professional development workshop, UTEP, El Paso, TX.
- Lim, K. H., & Gabaldon, L. A. (Aug 17, 2012). *Teachers-as-Learners Activity*. A session in the *First 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. (Aug 9, 2012). *Participants-as-Learners Activity: Perpendicular Lines*. A session in the 3-day professional development workshop for Algebra 1 Teachers in the iMPaCT-Math Project, UTEP, El Paso, TX.
- Lim, K. H. (Aug 7, 2012). *Variables in Math versus Place-Holders in Computing*. A session in the 3-day professional development workshop for Algebra 1 Teachers in the iMPaCT-Math Project, UTEP, 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 6<sup>th</sup> Grade Mathematics Teachers, Ysleta Independent School District, El Paso, TX.

## OTHERS: TALKS AND ROUNDABLES

- Lim, K. H. (Nov 6, 2023). *Being a Kind Math and Science Teacher*. Talk for Future Educators of Math and Science (FEMaS) student organization, El Paso, TX.
- Lim, K. H. & Castillo, D. (Mar 3, 2018). *Mining Kindness Within*. Presentation at the UTEP L.I.V.E. Conference, El Paso, TX.
- Lim, K. H. (Oct 9, 2017). *Mindfulness Over Matter*. Presentation for UTEP EDGE: Health and Wellness, El Paso, TX.
- Lim, K. H., Duval, A., Rodriguez, L. S., Nunez-Mchiri, G., Boehmer, C. R. (Aug 25, 2017). *Practicing Kindness in our University Community*. Workshop at the 2017 Fall Instructor Retreat, El Paso, TX.
- Lim, K. H. & Baca, I. (Feb 24, 2017). *Cultivating a Culture of Kindness at UTEP*. Presentation at the UTEP L.I.V.E. Conference, El Paso, TX.
- Lim, K. H., Baca, I., Duval, A., & Boehmer, C. (Mar 18, 2016). *Forming a Community of Practice to Promote a Culture of Loving Kindness at UTEP*. Roundtable session at the 13<sup>th</sup> International Sun Conference on Teaching and Learning, El Paso, TX.
- Lim, K. H., Horak, A., Duval, A., & Golding, P. (Mar 6, 2015). *Fostering Loving Kindness at UTEP*. Roundtable session at the 12<sup>th</sup> International Sun Conference on Teaching and Learning, El Paso, TX.
- Horak, A., Lim, K., Santiago, I., & Boehmer, C. (Feb 27, 2015). *Fostering Loving Kindness at UTEP*. Presentation at the UTEP L.I.V.E. Conference, El Paso, TX.
- Lim, K. H. (Apr 12, 2014). *Using Magic Tricks to Teach Algebraic Concepts*. Presentation at the UTEP Centennial Open House, El Paso, TX.
- Lim, K. H., Horak, A., Nunez-Mchiri, G., & Golding, P. (Mar 7, 2014). *Creating a Community of Educators Who Influence Students through Loving Kindness*. Roundtable session at the 11<sup>th</sup> International Sun Conference on Teaching and Learning, El Paso, TX.
- Horak, A., Santiago, I., Lim, K., Boehmer, C., Valero, L., & Rodriguez, L. (Feb 21, 2014). *Student Involvement & Academic Success*. Presentation at the UTEP L.I.V.E. Conference, El Paso, TX.

## DIRECTED STUDENT LEARNING

### Thesis Committee Chair for Master's Students

- Ashley Wilson (Aug 2015 – May 2016)
  - Title: *Flipped Learning: Embedded Questions in Videos as a Means to Engage Students*
  - Her thesis was based on an exploratory study, sponsored by the CETaL-SoTL grant, to investigate the use of self-paced learning materials for a hybrid math course; it investigates the effectiveness of embedding questions in instructional videos to increase student engagement.
  - She co-authored an article that has been accepted for publication in *Mathematics Teaching in the Middle School*.
  - She was a co-presenter at: (1) the Twentieth Annual AMTE Conference at Irvine in 2016; (2) the 13th International Sun Conference on Teaching and Learning in 2016; and (3) the New Mexico Mathematical Association of Two Year Colleges & Mathematical Association of America Southwestern Section (NMMATYC/MAA-SW) Joint Conference in 2015.
  - She received the Academic and Research Excellence - MAT Mathematics award in Spring 2016.
- William Fanning (Aug 2014 – May 2016)

- Title: *Investigating Math Students' Ability to Conceptualize Fractions as Two Numerals Having a Single Value*
- He co-presented at the New Mexico Mathematical Association of Two Year Colleges & Mathematical Association of America Southwestern Section (NMMATYC/MAA-SW) Joint Conference in 2015.
- Alejandro Galvan (Apr 2014 – Dec 2015)
  - Title: *Using the 5-4-3-2-1 Magic to Reinforce Foundational Algebraic Concepts*
  - He co-presented at the New Mexico Mathematical Association of Two Year Colleges & Mathematical Association of America Southwestern Section (NMMATYC/MAA-SW) Joint Conference in 2015.
- Jeremy Rameriz (October 2011 – Dec 2013)
  - Title: *Preparing Teachers for Use of Impact Activities: An Exploratory Study*
  - His thesis was based on a 3-day professional development summer workshop we offered to teachers participating in the iMPaCT-Math project, which involves programming-based activities for high-school algebra.
  - He gave two poster presentations on his research: (1) at Psychology of Mathematics Education - North America (PMENA) in Chicago in 2013; and (2) at UTEP Graduate Expo in 2013.
  - He received the Academic and Research Excellence - MAT Mathematics award in Fall 2013.
- Miguel Mendoza (Spring 2009 – Dec 2013)
  - Title: *Investigating the Efficacy of a Likelihood-to-Act Survey Intended to Gauge Mathematics Problem-Solving Disposition along the Impulsive-Analytic Dimension*
  - He co-authored two research reports (conference proceedings) on a research project that is related to his thesis.
  - He was the sole presenter for one of the research reports in 2012 and co-presenter for other one in 2010, both at the PMENA annual conference
  - He presented his thesis at the 3rd Annual Graduate Research Expo at UTEP.
- 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 Fall 2010.

#### Other Graduate Research Supervised

- Viridiana Fernandez (Fall 2023)
  - Title: *Effectiveness of Corequisite Math Courses*
- Claudia Torres (Spring 2021)
  - Title: *Becoming a Caring Teacher During Coronavirus Pandemic*
- David Esquivel (Fall 2020)
  - Title: *21st Century Formative Assessment: Opinions In The Secondary Mathematics Classroom*
- Md Easin Hasan (Spring 2019)
  - Title: *Preservice Teachers' Understanding of the Difference Between the Ratio  $y/x$  and the Rate of Change  $\Delta y/\Delta x$*
- Mohamed Illafe (Fall 2017)
  - Title: *Identifying Students' Misconceptions Linked to  $\Delta y/\Delta x$  or  $y/x$  on Linear Function or Direct Variation*
- Sandra Cuevas (Fall 2016)
  - Title: *Examining Sense Making in The New Mathways Project Foundations of Mathematical Reasoning*
- Susana Gonzales (Fall 2015)
  - Title: *Flipped Instruction: It's Effectiveness in Math Classroom-An Action Research*

- Suzana Jackson (Summer 2015)
  - Title: *Edpuzzle: How Teachers are Using Embedded Questions To Engage Students for Active Learning*
- Irma Herrera (Summer 2012)
  - Title: *Teaching Strategies and Learning Activities to Enhance Lesson Design Based on the Theory of Multiple Intelligences*
- 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.

## 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 (for MAT-Math graduate students)
- Introduction to Mathematics Education (for MAT-Math graduate students)
- Research Methods in Mathematics Education (for MAT-Math graduate students)
- Technology in Mathematics Classroom (for MAT-Math graduate students)
- Graduate Research (for MAT-Math graduate students)
- Seminar: Mathematical Processes and Practices (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 math teachers)
- Topics Seminar: Statistics and Probability (for 4-8 prospective teacher math teachers)
- Fundamentals/Geometry from an Adv. Standpoint (for 4-8 prospective teacher math teachers)
- Proportional and Algebraic Reasoning II (a capstone course for 4-8 prospective teachers)
- 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

## 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), 2009-2015

#### Editorial Work

- Member in the Editorial Panel for *Mathematics Teaching in the Middle School*, 2009-2012

#### Consulting Work

- Member of the Advisory Committee for Math Snacks Quality Assurance, 2018
- Investigator for a study on the impact of GEARUP training and support on participating teachers, 2014

#### 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 29<sup>th</sup> Annual Meeting of the PME-NA, 2007
- Member of the Program Committee for the PME-NA Conference, 2004

#### Reviewing of Grant Proposal

- NSF Review of Proposals, 2017

#### Reviewing of Journal Articles

- International J. of Math Education in Science and Technology, 2011, 2012, 2014, 2022, 2023
- International J. of Science and Math Education, 2013, 2014, 2017, 2020, 2021, 2022, 2023
- Journal of Mathematical Behavior: 2020

- Journal for Research in Mathematics Education: 2010
- Journal for the Research Center for Educational Technology: 2010
- Mathematics Teacher: 2012, 2013, 2016, 2018
- Mathematics Teacher: Learning and Teaching Pre-K–12: 2019, 2023
- Mathematics Teacher Educator: 2019
- Mathematics Teaching in the Middle School: 2007, 2008, 2011, 2012, 2014-2017
- Mathematics Thinking and Learning: 2009, 2010, 2011, 2012, 2014, 2019, 2021
- NCSM Journal of Mathematics Education Leadership, 2016
- School Science and Mathematics: 2018

#### Reviewing of Conference Proposals

- American Educational Research Association (AMTE) Conference: 2007
- Association of Mathematics Teacher Educators (AMTE) Conference: 2009, 2012, 2013
- Psychology of Mathematics (PME) Conference: 2005-2014, 2017, 2018, 2020, 2021, 2022, 2024
- PME-NA (North America) Conference: 2002, 2005, 2007-2015, 2017

#### Professional Memberships

- Association of Mathematics Teacher Educators (AMTE)
- Mathematical Association of America (MAA)
- National Council of Teachers of Mathematics (NCTM)

## **ACADEMIC EMPLOYMENT**

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

Program Director for the Master of Arts in Teaching - Mathematics (2017-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; 1998-1999)

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)