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Chicago, Illinois 60614
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Curriculum Vitae

Education

2000 - 2005 The University of Texas, Austin, TX
Ph.D., Science Education

1998 The University of Iowa, Iowa City, IA
Iowa Chautauqua program for Korean Science Teachers

1992- 1994 Kyung Pook National University, Taegu, Korea
M.A., Geology

1988- 1992 Kyung Pook National University, Taegu, Korea
B.A., Earth Science Education/Geology

Professional Experience

2010 - Current Assistant Professor
Department of Teacher Education
College of Education
DePaul University, Chicago, IL

2008 –2010 Assistant Professor
School of Education
Dominican University, River Forest, IL

2005 - 2008 Post Doctoral Fellow
Center for Curriculum Materials in Science (CCMS)
Northwestern University, Evanston, IL
Projects: *IQWST (Investigating and Questioning our World through Science and Technology)* and *IOPD (The Impact of Online Professional Development)*

2003 - 2005 Graduate Research Assistant, Center for Science Education
The University of Texas, Austin, TX
Projects: *Exploring the Development of Beginning Secondary Science Teachers in Various Induction Programs, Texas Regional Collaboratives for Excellence in Science Teaching, and UTeach project*

2003 - 2004 Assistant Evaluator, UTeach Natural Sciences
The University of Texas, Austin, TX
Project: *HP Technology Integration Evaluation*

- 2000 - 2003 Graduate Teaching Assistant
The University of Texas, Austin, TX
- *Undergraduate Courses*: Project Based Instruction, Knowing and Learning, Step I & II (Introductory Teaching Practice)
 - *Graduate Course*: Instructional Technology Planning and Managing, Knowing and Learning
- 2001 Museum Summer Camp Program Assistant Developer
The University of Texas, Austin, TX
Texas Memorial Museum <http://www.utexas.edu/tmm/>
- 1997 - 2000 High School Science Teacher
Dal Sung High School, Taegu, Korea
- 1993 - 1997 Middle School Science Teacher
Kyung Il Middle School, Taegu, Korea

Certification

- 2014 IB Science MYP certification
- 2006 Designing and Teaching On-line Courses
The Concord Consortium
- 2000 Teaching Assistant/Assistant Instructor Certification
University of Texas, Austin, TX
- 1997 First Class Secondary Teaching Certification
Science with Specialization in Earth Science
Department of Education, Korea
- 1991 Secondary Composite Science Teaching Certification
Department of Education, Korea

Publications

- Meeker, B. & Lee, E (in review). Pre-service Secondary Science Teachers' Understanding and Use of Modeling. *Journal of Science Teacher Education*.
- Lee, E. (resubmitted). How Do We Depend on Natural Resources?: A Lesson about Energy Generation and Natural Resources. *Science and Children*.
- Lee, E. & Seung, E. (in submission). Pre-service Science Teachers' Use of Questions in Teaching. *European Journal of Science and Mathematics Education*.
- Lee, E. (in submission). Book review: Attitude Measurements in Science Education.

Teachers College Record.

Lee, E. (2014). How Do Experienced Secondary Science Teachers Perceive Pedagogical Content Knowledge? *National Teacher Education Journal*. 7(3), 57-68.

Lee, E., Luft, J. (2008). Experienced Secondary Science Teachers' Representation of Pedagogical Content Knowledge. *International Journal of Science Education*. 30(10), 1343-1363.

Lee, E., Brown, M., & Luft, J. (2007). Assessing Beginning Secondary Science Teachers' PCK: Pilot Year Results. *School Science and Mathematics*. 107(2), 418-426.

Luft, J., Lee, E., Fletcher, S., & Roehrig, G. (2007). Growing or Wilting: Beginning biology teachers in an induction program for science teachers, *American Biology Teacher*, 69(6), 336-341.

Lee, E. (2007). Literature Review: Pedagogical Content Knowledge as a Special Knowledge for Teaching. 27(8), 729-740. *Korean Journal of Research in Science Education*.

Lee, E. (2005). *Understanding pedagogical content knowledge from the experienced science teacher perspective*. Unpublished doctoral dissertation, University of Texas at Austin.

Lee, E. (1995). Thesis: *The Study of Microstructures in Metamorphic Rocks in Chang-sung*, Korea., Kyong Pook National University.

Presentations

Lee, E. (January, 2016). Pre-service secondary science teachers' view of models and modeling. 2016 Annual Conference of Association of Science Teacher Education (ASTE), Reno, NV

Kim, H. & Lee, E. (July, 2015). Examining College Students' Understanding of Cellular Respiration and Visual Thinking Skill. 2015 Annual Conference of Society for the Advancement of Biology Education Research (SABER), Minnesota, MN

Lee, E. (2015). Exploring Pre-service Secondary Science Teachers' Perceptions about Scientific Models. 2015 Annual Conference of National Association of Research in Science Education (NARST), Chicago, IL

Lee, E. (April, 2013). Elementary Students' Understanding of Wind. Proposal presented at 2013 Annual Meeting of the National Science Teacher Association (NSTA). San Antonio, TX

Lee, E. (April, 2012). Curriculum materials as tools to support pedagogical content

knowledge of middle school science teachers. Proposal accepted at 2012 Annual International Meeting of the National Association for Research in Science Teaching (NARST)

Lee, E. (April, 2011). *Differences in the Gender-related Motivating Factors for Girls and Boys in Urban High-needs Middle schools*. Proposal accepted at 2011 Annual International Meeting of the National Association for Research in Science Teaching (NARST), Orlando, FL, April 3-6, 2011

Fitzsimmons, J., Lee, E., Tonsing-Meyer, J., McMahon, M. (November, 2010). *Gender, STEM, and Collaboration: Persistence, Action, and Learning from Middle Grades to College in a Science and Math Learning Collaborative (SMLC)*. Symposium session at 2010 Illinois Science Teacher Association (ISTA) Annual Conference, Springfield, IL November 3, 2010

Lee, E., Sylvia, Z., Marianne, G, & Sarvis, J.T., (September, 2010) *Development of Gender-equitable Energy Module (GEM) and Pilot Testing*. Paper presented at 2010 Arts & Science Colloquium, Romeoville, IL September 25, 2010

Lee, E., Sarvis, J.T., (September, 2009) *Descriptive Analysis of Gender-related Motivating Factors for Girls and Boys in High-needs Middle Schools*. Paper presented at 2009 Arts & Sciences Colloquium, Chicago, IL September 25, 2009

Lee, E., Sarvis, J.T. (June, 2009) *Gender appropriate pedagogy at the middle school level in high-needs schools in the areas of math and science*. Paper presented Annual Symposium of Illinois Education Research Council, Campaign, IL, June 9-10, 2009

Lee, E. (January, 2009). *Conceptual change in middle school student understanding of wind*. Paper accepted at 2009 Annual International Meeting of the Association of Science Teacher Education (ASTE), Hartford, CN, January 7-10, 2009

Jablonsky, M., Lee, E., O'Brien, K. & Sarvis, J.T. (September, 2008). *An initial examination of gender related motivating factors for student success*. Paper presented at 2008 Arts & Sciences Colloquium, Chicago, IL, September 26, 2008

Lee, E. (March, 2008). *The representations of PCK from the perspective of four experienced secondary science teachers*. Paper presented at 2008 Annual International Meeting of American Educational Research Association (AERA), New York, NY, March 24-28, 2008

Lee, E., Edelson, C.D. (January, 2008). *Learning by doing: Curriculum Enactment and a teacher's PCK*. Paper presented at 2008 Annual International Meeting of the Association of Science Teacher Education (ASTE), St. Louis, MO, January 10-12, 2008

Lee, E., Edelson C. D. (April, 2007). *The Roles of Curriculum Materials in Instructional Decision Making Process*, Paper presented at 2007 Annual International Meeting of the

National Association for Research in Science Teaching (NARST), New Orleans, LA, April 3-6, 2007

Lee, E. (January, 2007). *Experienced Secondary Science Teachers' Conceptualizations of PCK*, Paper presented at 2007 Annual International Meeting of the Association of Science Teacher Education (ASTE), Clear Beach, FL, January 3-6, 2007

Lee, E. (January, 2007). *Curriculum Materials as Tools for Constructing and Reconstructing a teacher's PCK*, Paper presented at 2007 Annual International Meeting of the Association of Science Teacher Education (ASTE), Clear Beach, FL, January 3-6, 2007

Lee, E. & Luft, J. (April, 2006). *Defining PCK from the perspective of experienced secondary science teachers*, Conference proceeding paper presented at 2006 Annual International Meeting of the National Association for Research in Science Teaching (NARST), San Francisco, CA.

Lee, E., Brown, M. & Luft, A. (April, 2006). *Assessing Beginning Secondary Science Teachers' PCK: Pilot Year Results*, Conference proceeding paper presented at 2006 Annual International Meeting of the National Association for Research in Science Teaching (NARST), San Francisco, CA.

Lee, E. & Luft, A. (April, 2005). *Pedagogical Content Knowledge (PCK) of Experienced Secondary Teachers*, Conference proceeding paper presented at 2005 Annual International Meeting of the American Educational Research Association (AERA), Montreal, Canada

Lee, E. & Luft, A. (April, 2005). *Conceptualizing PCK from the Perspective of Mentor Science Teachers*, Conference proceeding paper presented at 2005 Annual International Meeting of the National Association for Research in Science Teaching (NARST), Dallas, TX

Lee, E., Brown, M. & Luft, A. (April, 2005). *Capturing the Pedagogical Content Knowledge of Beginning Secondary Science Teachers: Year 1*, Conference proceeding paper presented at 2005 Annual International Meeting of the National Association for Research in Science Teaching (NARST), Dallas, TX.

Lee, E. & Luft, A. (January, 2005). *Defining Pedagogical Content Knowledge (PCK) from Teachers' Perspectives: How Mentor Science Teachers Reveal PCK*, Conference proceeding paper presented at 2005 Annual Meeting of Association for the Education of Teachers in Science (AETS), Colorado Spring, CO.

Lee, E., Fletcher, C. & Barufaldi, J. (April, 2004). *Teachers Mentoring Teachers: Learning Standards-based Teaching Together*, Conference proceeding paper presented at 2004 Annual International Meeting of the National Association for Research in Science Teaching, Vancouver, British Columbia, Canada

- Luft, A., Fletcher, S., Lee, E., & Roehrig, G. (April, 2004). *Developing content knowledge? Beginning biology teachers in a science-focused induction program*, Conference proceeding paper presented at 2004 Annual International Meeting of the National Association for Research in Science Teaching (NARST), Vancouver, British Columbia, Canada
- Lee, E. & Fletcher, C. (January, 2004). *Teachers as Mentors: Professional Development through Supporting Beginning Teachers*, Conference proceeding paper presented at 2004 Annual Meeting of Association for the Education of Teachers in Science, Nashville, TN.
- Lee, E. (February, 2004). *Perceptions and Developments of Pedagogical Content Knowledge in Mentor Science Teachers*, Conference proceeding paper presented at SW-AETS 2004 Conference, Georgetown, TX.
- Lee, E. (March, 2003). *How Could On-line Technology Support the Professional Development of K-12 Science Teachers?* Conference proceeding paper presented at 2003 Annual International Meeting of the National Association for Research in Science Teaching, Philadelphia.

Instructional Materials/Professional Development Materials

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| 2010 | 7 th grade Gender-equitable Energy Module (GEM), author |
| 2007 | 7 th grade IQWST Earth Science unit, author
(<i>How Is Weather Predictable?</i>) |
| 2006 | 6 th grade IQWST Earth Science unit, author
(<i>How Does Water Shape Our World?</i>) |
| 2006 | IOPD on-line workshops – <i>Dynamic systems</i> , author |

Awards/Honors/Grant

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| 2015, 2016 | Co-PI, Motorola Innovation Generation Grant with Dr. Cobb (PI) |
| 2014 | Co-PI, Mathematical Association of America Tensor Grant with Dr. Cobb (PI) |
| 2012 -2013 | NSF DR K12 Grant Proposal (submitted 12/6/12, Declined 5/30/13) |
| 2011 | Untenured Faculty Research Grant 2011-2011 |

School of Education
DePaul University

- 2005 - 2008 CCMS post doctoral fellowship
Center for Curriculum Materials in Science
- 2004 - 2005 University Continuing Fellowship
University of Texas at Austin
- 2003 Addison E. Lee Fellowship in Science Education
University of Texas at Austin
- 2003-2004 Continuing Bruton Fellowship
University of Texas at Austin
- 2003, 2004, 2005 Travel Grants
University of Texas at Austin

Service

- 2003 - Current Reviewer for Journal of Research in Science Teaching
- 2005 - 2013 Reviewer for School Science and Mathematics Journal
- 2005 - 2011 Reviewer for Journal of Science Teacher Education
- 2006 - Current Reviewer for Korean Journal of Research in Science Education
- 2004 - Current Reviewer for AERA conference proposals
- 2004 - Current Reviewer for NARST conference proposals
- 2004 - Current Reviewer for ASTE conference proposals

Professional Membership

- 2008 - Current The Associated of Colleges in Illinois (ACI)
- 2003 - Current American Educational Research Association (AERA)
- 2002 - Current Association for Science Teacher Education (ASTE)
- 2004 - Current Korean Association of Research in Science Education (KARSE)
- 2001 - Current National Association for Research in Science Teaching (NARST)