

TIFFANY HILL

Emporia State University
1 Kellogg Circle
Emporia, KS 66801
Thill7@emporia.edu

EDUCATION

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| 2014 | Ph.D., Learning, Teaching, and Curriculum
University of Missouri (Columbia, Missouri)
Specialization: Elementary Education
Dissertation: <i>The Processes and Products of First and Second Grade Teachers' Interpretations of Students' Understanding of Number and Operation</i> |
| 2009 | Ed.S., Information Sciences and Learning Technologies
University of Missouri (Columbia, Missouri) |
| 2008 | M.Ed., Curriculum and Instruction
University of Missouri (Columbia, Missouri)
Action Research Project: <i>Concrete Learning to Conceptual Understanding: Exploring the Impact of Physical Manipulatives</i> |
| 2007 | B.S., Elementary Education
William Jewell College (Liberty, Missouri) |

PROFESSIONAL EXPERIENCE

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| 2017-present | Emporia State University, Emporia, Kansas
PDS Site Director – Kansas City Area
Department of Elementary Education, Early Childhood, Special Education
The Teachers College |
| 2014-present | Emporia State University, Emporia, Kansas
Assistant Professor, Elementary Education
Department of Elementary Education, Early Childhood, Special Education
The Teachers College |
| 2011-2014 | University of Missouri, Columbia, Missouri
College of Education, Graduate Research Assistant |
| 2010-2012 | University of Missouri, Columbia, Missouri
College of Education, Graduate Instructor |
| 2010-2010 | University of Missouri, Columbia, Missouri
College of Education, Graduate Assistant to the Director of Elementary Education |
| 2008-2010 | Parkway School District, Chesterfield, Missouri
Third Grade Classroom Teacher |
| 2007-2008 | Independence School District, Independence, Missouri
Fourth Grade Classroom Teacher |

TEACHING

Assistant Professor at Emporia State University

- Undergraduate EE 311: Planning and Assessment of Teaching
 EE 316: Teaching Science in Elementary Schools
 EE 320: Observing Teaching and Learning Models
 EE 317: Teaching Math in the Elementary School
 EL 344: eTextbook Summit (One Credit, One Section)
- Graduate EL 743: Careers in STEM Education (Three Credits, One Section)
 EL 744: eTextbook Summit (One Credit, One Section)
 EL 853: STEM Education in the Classroom

Graduate Instructor at the University of Missouri

- Spring 2012 TDP 4280: Teaching Science in Elementary Schools (Three Credits, One Section)
- Fall 2010 TDP 1100: Teacher Development Program Orientation (One Credit, One Section)
- Spring 2011 TDP 1100: Teacher Development Program Orientation (One Credit, Two Sections)

Graduate Intern at the University of Missouri

- Fall 2012 LTC 4300: Learning and Teaching Number and Operation in the Elementary Schools,
 under Dr. John Lannin, Associate Professor of Mathematics Education
- Fall 2011 LTC 4600: Diagnosis and Remediation of Learning Problems in Math,
 under Dr. Delinda van Garderen, Associate Professor of Special Education
- Spring 2011 LTC 4280: Teaching Science in Elementary Schools,
 under Dr. Deborah Hanuscin, Associate Professor of Science Education

Teaching Experience in the Elementary Classroom

- 2008-2010 Classroom Teacher, Grade Three
 Barretts Elementary, Parkway School District (Chesterfield, Missouri)
- 2007-2008 Classroom Teacher, Grade Four
 Glendale Elementary, Independence School District (Independence, Missouri)

Teaching Honors and Awards

- 2013 Recognized Mentor, University of Missouri Honors Convocation,
 Nomination from Melody Raymond, University of Missouri Graduate
- 2011 College of Education Instructor of the Year Nominee,
 University of Missouri College of Education Student Council
- 2008 Teacher of the Year Nominee,
 Glendale Elementary, Independence School District

RESEARCH ACTIVITIES

- 2013-present The Processes and Products of First and Second Grade Teachers' Interpretations of Students' Understanding of Number and Operation
Principal Investigator
- 2010-present Mathematically at Risk Students (MARS)
Graduate Research Assistant (P.I., Dr. John Lannin and Dr. Delinda van Garderen)
Funding Agency: National Science Foundation
Grant Title: *A Study of the Struggling Learner's Knowledge and Development for Number and Operation*
- 2012-2013 Study of Student Teaching Models
Graduate Research Assistant (P.I., Dr. Kathryn Chval and Dr. Laurie Kingsley)
- 2011-2012 Quality Elementary Science Teaching (QUEST)
Research Intern (P.I., Dr. Deborah Hanuscin and Dr. Delinda van Garderen)
Funding Agency: Missouri Department of Higher Education
Grant Title: *QUEST: Quality Elementary Science Teaching*

External Funding

Math and Science Teaching Excellence in Rural Schools

(3/01/17 -6/30/18).

Funding from US Department of Education Math and Science Partnership (MSP) Program, S366B150017/S366B150018, \$194,605, awarded to C. M. Seimears, K. Childs, S. Schwerdtfeger, **T. Hill**; Role: Coordinator.

Advancement Via Individual Determination (AVID) – Climate Initiative (ACI)

(12/01/14 -9/30/15).

Funding from Kansas National Science Foundation (NSF) Experimental Program to Stimulate Competitive Research (EPSCoR), NSF0074158, \$23,368, awarded to C. M. Seimears, **T. Hill**, R. Carlson; Role: Co-Principal Investigator.

Peer-Reviewed Publications

Van Garderen, D., **Hill, T.**, & Lannin, J. (under review). Benchmarking as a “bridging” strategy for developing numerical magnitude comparison skills.

Hill, T., Lannin, J. K., van Garderen, D. (2015). Promoting and assessing mathematical generalising. *Australian Primary Mathematics Classroom*, 20 (4), 3-8.

Lannin, J. K., van Garderen, D., Switzer, J.M., Buchheister, K. **Hill, T.**, & Jackson, C. (2013). The mathematical development in number and operation for struggling first graders. *Investigations in Mathematics Learning*, 6(2), 19-47.

Other Publications

Hill, T., Couch, J. & Smith, N., Mann, L. (2016). A partnership in preparing preservice teachers to teach with mobile technologies. *National Association of Professional Development Schools: Stories from the Field*. Retrieved from <http://napds.org/category/stories-from-the-field/>

International/National Presentations

- Presley, M., Hanuscin, D., Hill, T., Davis, J. (2018). *Introducing Preservice Teachers to the NGSS*. Workshop presented at the annual meeting of the Association of Science Teacher Educators. Baltimore, Maryland.
- van Garderen, D., Lannin, J., & Hill, T. (2016). *Developing early number sense for the struggling learners*. Session presented at the Innov8: Engaging the Struggling Learner Conference for National Council of Teachers of Mathematics. St. Louis, Missouri.
- Hill, T., & Smith, N. (2016). "Interpretation is hard work!" *Teaching the Interpretation of Student Thinking*. Session presented at the annual meeting of National Council of Teachers of Mathematics. San Francisco, California.
- Smith, N., Harrell, M., & Hill, T. (2016). *Developing Number Sense in Grades K-2 with Math Games*. Session presented at the annual meeting of National Council of Teachers of Mathematics. San Francisco, California.
- Mann, L., Weaver, K., Smith, N., & Hill, T. (2015). *The Data Speak: An Update on the Emporia State University Mobile Technology Initiative*. Session presented at the annual meeting of The Teacher Education Council of State Colleges and Universities and The Renaissance Group. San Antonio, Texas.
- Harrell, M., Smith, N., & Hill, T. (2015). *Base-ten Blocks to Beginning Algebra: Unifying Computational Algorithms*. Session presented at the annual meeting of National Council of Teachers of Mathematics. Boston, Massachusetts.
- Lannin, J., van Garderen, D., & Hill, T. (2014). *Drawing inferences to inform instruction for struggling learners*. Session presented at the annual meeting of National Council of Teachers of Mathematics. New Orleans, Louisiana.
- Hanuscin, D., van Garderen, D., Lee, E., Presley, M., Hill, T., Sinha, S., & Cite, S. (2013). *Breaking the cycle: Supporting elementary teachers' understanding and ability to apply the 5E model*. Paper presented at the annual meeting of the Association of Science Teacher Educators. Charleston, South Carolina.
- Lannin, J., van Garderen, D., & Hill, T. (2012). *Learning progressions and trajectories in research*. Session presented at the NSF DR K-12 PI Conference. Arlington, Virginia.
- Lannin, J. K., van Garderen, D., & Hill, T. (2012). *Conservation of quantity: An overlooked construct?* Session presented at the research pre-session of the annual meeting of the National Council of Teachers of Mathematics. Philadelphia, Pennsylvania.
- Lannin, J. K., van Garderen, D., & Hill, T. (2012). *Examining the difficulties students have with early number*. Session presented at the annual meeting of National Council of Teachers of Mathematics. Philadelphia, Pennsylvania.
- Hanuscin, D. & Hill, T. (2012). *Rubric redesign*. Session presented at the National Science Teachers Association National Conference on Science Education. Indianapolis, Indiana.
- Hanuscin, D., Hager, T., Lee, J. L., & Hill, T. (2012). *Quality elementary science teaching (QUEST)*. Session presented at the National Science Teachers Association National Conference on Science Education. Indianapolis, Indiana.

Hanuscin, D., **Hill, T.**, Izci, K., Cheng, Y., Sinha, S., Muslu, N., & Worsham, H. (2012). *Educating prospective science teacher educators: An innovative doctoral seminar*. Paper presented at the annual meeting of the Association of Science Teacher Educators. Clearwater Beach, Florida.

State/Regional Presentations

Hill, T., & Smith, N. (2015). *Using mathematics games to develop number sense*. Session presented at the annual meeting of Kansas City Area Teachers of Mathematics. Kansas City, Missouri.

Schwerdtfeger, S., **Hill, T.**, Jones, J. (2015). *Transition to eTextbooks*. Session presented at Kansas Higher Education E-Textbook Summit. Emporia, Kansas.

van Garderen, D., Lannin, J., & **Hill, T.** (2013). *Drawing inferences to inform instruction for struggling learners*. Session presented at the National Council of Teachers of Mathematics regional conference and exposition. Louisville, Kentucky.

van Garderen, D., **Hill, T.**, Lannin, J. (2013). *Using assessment in number and operations to draw inferences to target instruction for struggling learners*. Session presented at the annual Research to Practice conference sponsored by Student Council for Exceptional Children. Columbia, Missouri.

Hill, T., van Garderen, D., Lannin, J. (2012). *Assessing learners' understanding of number and operations: Drawing inferences from student responses*. Session presented at the annual conference of the Missouri Council for Teachers of Mathematics. Columbia, Missouri.

van Garderen, D., **Hill, T.**, & Lannin, J. (2011). *Identifying barriers to guide instruction for struggling learners*. Session presented at the annual conference of the Missouri Council for Teachers of Mathematics. Columbia, Missouri.

Hanuscin, D., Hager, T., **Hill, T.**, Malke, J., & Newman, R. (2011). *Picture perfect science: Integrating children's literature and science*. Session presented at the annual conference of the Mid-Missouri Teachers Applying Whole Language. Columbia, Missouri.

Hanuscin, D., van Garderen, D., Menon, D., Hager, T., Lee, E., Sinha, S., **Hill, T.**, Cite, S., Presley, M. (2011). *Supporting success of ALL students in science*. Session presented at the annual conference of the Science Teachers of Missouri. Columbia, Missouri.

Local Presentations

Mann, L., Smith, L., & **Hill, T.**, Dobler, E. (2016). *Hornet Connected Learning: A 1:1 iPad Initiative*. Session presented at the Spring Teachers College Meeting. Emporia, Kansas.

Smith, L., Mann, L., & **Hill, T.** (2016). *Our journey teaching with technology: Hornet Connected Learning*. Session presented at the Rotary Club of Emporia. Emporia, Kansas.

Lannin, J., van Garderen, D., & **Hill, T.** (2013). *Developing learning trajectories in early number and operation*. Session presented at the MU College of Education Mathematics and Science Education Colloquium. Columbia, Missouri.

Professional Affiliations

National Science Teachers Association
Association of Science Teacher Educators

National Council of Teachers of Mathematics
 Association of Mathematics Teacher Educators
 Kansas Association of Teachers of Mathematics
 Kansas City Area Teachers of Mathematics

SERVICE

Service at Emporia State University (Emporia, Kansas)

Department

Fall 2016-present	Member, Block One Admissions Committee
Summer 2016-present	Member, Elementary Education Masters Design Committee
Fall 2015-present	Volunteer, ESU Educator Open House at ESU-KC
Fall 2014-Spring 2017	Member, Department Faculty Recognition Committee
Fall 2014-present	Member, Elementary Education Redesign Committee
	Spring 2016-present Member, Lesson Plan Redesign Sub-Committee
Fall 2014-present	Member, Instructional Specialist Committee
	Fall 2016-present Co-Coordinator, Instructional Specialist STEM Committee
Fall 2014-present	Member, Professional Development School Committee
	Fall 2016-present Member, E-Forms Committee
Summer 2017	Member, Search Committee, Instructor, 17/099
Summer 2016	Chair, Search Committee, Assistant Professor, 16/089
Summer 2015	Chair, Search Committee, Assistant Professor, 15/107
Fall 2014	Member, Search Committee, Assistant Professor, 15/055

College

Fall 2017-Spring 2018	New Faculty Mentor
Summer 2016	Member, CAEP Recruitment Plan Development Committee
Fall 2015-present	Member, Committee on Advanced Programs
Fall 2014	Member, The Teachers College Faculty Recognition Awards Committee

University

Spring 2017	Member, Search Committee, SMEC Director, 17/xxx
Fall 2015-Fall 2016	Co-Chair, Hornet Connected Learning Steering Committee
	Fall 2014-present Facilitator, Fall HCL iPad Orientation for Students
Spring 2015-present	Member, High Impact Practices Committee
Spring 2015-present	Member, Science and Mathematics Education Center (SMEC) Advisory Committee

Service at University of Missouri (Columbia, Missouri)

Spring 2011-Spring 2014	Senior Capstone Project Evaluator
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Profession

Summer 2016-present	Conference Proposal Reviewer, Association of Science Teacher Educators
Summer 2016	Mathematics Curriculum Content Reviewer, EdReports
Fall 2015	Co-Chair, Kansas Higher Education E-Textbook Summit
Fall 2012-present	Manuscript Reviewer, Teaching Children Mathematics

Community

Fall 2016-present	USD 500 Education Advisory Board
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	Kansas City, Kansas School District (Kansas City, Kansas)
Fall 2016-present	CAPS Project Evaluator, Blue Valley School District (Overland Park, Kansas)
Fall 2015	Volunteer Speaker, Career Shawnee Mission North Career Success Seminar Shawnee Mission School District (Shawnee, Missouri)
Fall 2013- Spring 2014	Park Hill Friends Mentor, Park Hill School District (Kansas City, Missouri)
Fall 2012	Math and Science Expo Volunteer, Moberly School District (Moberly, Missouri)
Spring 2011	Science Matters Volunteer, Science Teachers of Missouri Conference (Columbia, Missouri)
Spring 2011	Senior Honors Project Mentor, North Kansas City School District (Kansas City, Missouri)