Dr. Jane Strawhecker

University of Nebraska at Kearney

Teacher Education

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## Education

PhD, University of Nebraska - Lincoln, 2004.

Major: Teaching, Curriculum, and Learning

Supporting Areas of Emphasis: K-8 Mathematics Education

Dissertation Title: PREPARING ELEMENTARY TEACHERS TO TEACH MATHEMATICS: HOW PEDAGOGY, CONTENT, AND FIELD EXPERIENCES IMPACT CONTENT KNOWLEDGE, PEDAGOGICAL CONTENT KNOWLEDGE & BELIEFS

MA, Mid-America Nazarene University, 1992.

Major: Curriculum and Instruction

BA, Kearney State College, 1986.

Major: Elementary Education (Elementary Mathematics minor)

Additional endorsement: Middle Grades Mathematics, 1987.

## Licensures and Certifications

Professional Teaching Certificate (K-8). (October 19, 2005 - August 31, 2015).

## Professional Memberships

Nebraska State Reading Association. (January 2015 - Present).

Advisor (Eta Chapter), Kappa Delta Pi Honor Society. (August 2007 - Present).

National Association for Professional Development Schools. (February 2006 - Present).

Elementary Representative, Nebraska Association of Teachers of Mathematics. (August 2004 - Present).

National Education Association. (August 2000 - Present).

Nebraska State Education Association. (August 2000 - Present).

University of Nebraska at Kearney Education Association. (August 2000 - Present).

National Council of Teachers of Mathematics. (August 1988 - Present).

Alpha Delta Kappa. (January 2014 - December 2016).

# Teaching

## Teaching Experience

### University of Nebraska at Kearney (August 2000 - Present)

TE 311/311H, Math Methods I

TE 312/312H, Math Methods II

TE 313, Field Experience: Math

TE 848, Assess & Rmd in Ele Schl Math

PTE 300 Learning and Evaluation (Early Training Center)

PTE 390 Field Experience (Early Training Center)

ELED 371 Language Arts Methods (Early Training Center)

ELED 370 Elementary Math Methods

### Kearney Public Schools (August 1995 – May 2000)

Fifth Grade Teacher

**Blue Valley (KS) Unified School District** (August 1988 – May 1995)

Middle School Mathematics Teacher

**Omaha Public Schools** (August 1986 – May 1988)

Fifth Grade Teacher

## Directed Student Learning

Supervised Research - UGRD, "A Fraction Intervention: Linking Concepts and Procedures," Teacher Education. (April 15, 2014 - November 1, 2014).  
Advised: Brittney Hurst

Supervised Research - UGRD, "The Foreign Language Teaching Standards Used in Secondary-Level Peruvian Classrooms," Foreign Language. (February 2014 - August 1, 2014).  
Advised: Melissa Everson

Supervised Research - UGRD, "Achievement Gap in Mathematics," Teacher Education. (April 2012 - September 2012).  
Advised: Laura Brockhaus

## Awards and Honors

Advancing Accessibility Recognition, Disability Services Office. (November 2, 2015).

Mortar Board Faculty Appreciation, Mortar Board. (2013, 2012, 2010, 2008, 2003).

New Frontiers Featured Faculty, UNK Office of Graduate Studies & Research. (September 2012).

Pratt-Heins Foundation Faculty Award for Outstanding Teaching. (August 2007).

Outstanding Teaching Award, College of Education. (May 2006).

# Research

## Published Intellectual Contributions

### Book Chapters

Vu, P. H., Knoell, C. M., Nebesniak, A. L., Strawhecker, J. E. (2017). Gamified – blended learning professional development: A descriptive case study. In Christie Martin, Drew Polly (Ed.), *Handbook of Research on Teacher Education and Professional Development* (pp. 388-397). Hershey, PA: IGI Global.

### Books

Strawhecker, J. E., Bruner, P. K., Siegal, M. (2014). *Field Experience Handbook: Teacher Education* (1.1st ed.). iTunes. itunes.apple.com/us/book/field-experience-handbook/id886688753?mt=11

### Journal Articles

Knoell, C. M., Strawhecker, J. E., Montgomery, D. J., Ding, M. (2015). Perceptions of Elementary Preservice Teachers’ Mathematical Knowledge and Number Sense. *Eastern Education Journal, 43*(1), 26-41. http://castle.eiu.edu/~edjournal/Winter\_2014\_2015/01092015\_ElementaryPSTMathKnowledgeAndNumberSense\_KNOELL\_FINAL.pdf

### Newsletter

Strawhecker, J. E. (2013). It's About Time. In Dot Snesrud (Ed.), *Elementary Scene* (pp. 1). Nebraska: NATM Newsletter.

### Refereed Journal Articles

Kracl, C. L., Knoell, C. M., Harshbarger, D. K., Strawhecker, J. E. (2014). Win-Win Field Experiences in Our Partner Schools. *Education in a Democracy: A Journal of the National Network of Educational Renewal, 6*(2014). hwww.nnerpartnerships.org/communications/nner-journal/

Ford, P. L., Strawhecker, J. E. (2011). Co-teaching math content and math pedagogy for elementary pre-service teachers: a pilot study. *IUMPST: The Journal*. www.k-12prep.math.ttu.edu/journal/pedagogy/ford01/article.pdf

Strawhecker, J. E., Knoell, C. M. (2011). The Use of Electronic Portfolios in an Elementary Mathematics Methods Class. *Eastern Education Journal, 40*(1), 85-100. castle.eiu.edu/~edjournal/priorissue40.html

Strawhecker, J. E., Messersmith, K. G., Balcom, A. (2007). The role of electronic portfolios in the hiring of K-12 teachers. *Journal of Computing in Teacher Education, 24*(2), pp. 69-75. www.iste.org/jcte

Strawhecker, J. E. (2007). Preparing to teach elementary school mathematics: The integration of a hands-on field experience. *Eastern Educational Journal, 36*(1), pp. 22-25. http://castle.eiu.edu/~edjournal/

Strawhecker, J. E. (2005). Preparing elementary teachers to teach mathematics: How field experiences impact pedagogical content knowledge. *Issues in the Undergraduate Mathematics Preparation of School Teachers: The Journal, 4*. http://www.k-12prep.math.ttu.edu/journal/curriculum/volume.shtml

Strawhecker, J. E. (2003). Service learning in an elementary setting. *In Practice: College Service in the K-12 Classroom, 3*(1), pp. 50 - 67.

## Presentations

Kracl, C. L., Harshbarger, D. K., Strawhecker, J. E. Nebraska State Reading Association 44th Annual Conference, "There's Always Time for A Read Aloud," Nebraska State Reading Association, Kearney, NE. (February 24, 2017).

Strawhecker, J. E. Organization for Research & Creative Activity, "Tips for Successful Student Research in the College of Education," UNK. (October 27, 2016).

Harshbarger, D. K., Strawhecker, J. E. Kappa Delta Pi: 50th Biennial Convocation, "Inquiry–Based Learning for Elementary Science and Math," Eta Phi Chapter of Kappa Delta Pi, Orlando, FL. (October 23, 2015).

Bruner, P. K, Siegal, M., Strawhecker, J. E. iPad User Group, "Publication of Field Experience Handbook," UNK, Ockinga Auditorium. (October 2014).

Siegal, M., Strawhecker, J. 2014 Professional Development Schools National Conference, "Hit the Jackpot: Implementing Win-Win Math & Social Studies Field Experiences," University of South Carolina, Las Vegas, Nevada. (March 28, 2014).

Harshbarger, D. K.,Kracl, C. L., Strawhecker, J. E.. Community Engagement to Enhance Student Learning, "Win-Win K-5 Field Experiences," NNER National Network for Educational Renewal, Albuquerque, New Mexico. (October 11, 2013).

Strawhecker, J. E. Center for Teaching Excellence Award Luncheon, "Lessons Learned," Center for Teaching Excellence, UNK. (April 2012).

Strawhecker, J. E. Kenwood Professional Development, "Guided Math: Practical Strategies for Using Small Group Instruction to Differentiate Math Instruction," Kenwood Elementary School, Kearney, NE. (March 2012).

Kracl, C. L., Strawhecker, J. E., Harshbarger, D. K. Professional Development of Schools National Conference, "UNK's Commitment to Consistency," Professional Development of Schools, Las Vegas, NV. (March 9, 2012).

Harshbarger, D. K., Kracl, C. L., Strawhecker, J. E. Professional Development of Schools National Conference, "UNK's Commitment to Consistency," Professional Development of Schools, Las Vegas, NV. (March 9, 2012).

Strawhecker, J. E., Battreal, B., Schleiger, M. National Kappa Delta Pi Biennial Convocation, "Involving Community Experts as Guest Speakers to Prepare KDP Educators," Kappa Delta Pi, Indianapolis, IN. (November 2011).

Strawhecker, J. E. Board of Regents session, "Assessment of COE Student Learning," UNK. (May 2011).

Strawhecker, J. E. Central Nebraska Mathematics Teacher Circle Math Teacher Circle, "Let's Go Fly a Kite," Central Nebraska Mathematics Teacher Circle, Horizon Middle School (Kearney, NE). (March 2011).

Strawhecker, J. E., Kracl, C. L. "Taskstream Professional Development," College of Education, UNK College of Education computer lab. (October 2010).

Strawhecker, J. E. Kearney Public Schools Subject Area Committee, "Textbook Considerations: A Glance at the National Council of Teachers of Mathematics Guidelines," Kearney Public Schools, Kearney, NE. (October 20, 2009).

Ford, P. L., Strawhecker, J. E., Ramsey, J. M., Blank, A., Klein, K. Mathematics Teachers" Circle, "How to Run a Math Teachers' Circle," American Institute of Mathematics, Washington, D.C. (July 31, 2009).

Strawhecker, J. E. Teaching Tips from Award Winning Teachers, "How to Engage Students in the First Minutes of Class," Center for Teaching Excellence, UNK. (April 8, 2009).

Strawhecker, J. E. Northeast Elementary School Professional Development, "Basic Fact Strategies (Second Grade Teachers)," Northeast Elementary. (November 24, 2008).

Ziebarth-Bovill, J., Strawhecker, J. E., Kracl, C. L., Brosamle, N. 2008 Professional Development Schools National Conference, "The Power of Quantum Learning: Renewing Partner Schools & Professional Educators," National Association for Professional Development Schools (NAPDS), Orlando, Fl. (April 12, 2008).

Strawhecker, J. E., Knoell, C. M. Bryant Elementary School Inservice, "Development of Whole Number Operations Workshop," Bryant Elementary School, Kearney. (June 2007).

Knoell, C. M., Strawhecker, J. E. "Summer Math Institute for Math Methods I Partner Teachers," University of Nebraska Kearney, College of Education. (June 2007).

Strawhecker, J. E., Knoell, C. M., "Summer Math Institute for Math Methods II Partner Teachers," University of Nebraska Kearney, College of Education. (June 2007).

Strawhecker, J. E., Knoell, C. M. Nebraska Association of Teachers of Mathematics Fall Conference, "M3 – Making mathematics meaningful for grades 2-6," Nebraska Association of Teachers of Mathematics, Kearney, NE. (October 9, 2006).

Strawhecker, J. E., Knoell, C. M. Bryant Elementary School Inservice, "Calculators in the Classroom," Bryant Elementary School, Kearney. (September 2006).

Strawhecker, J. E., Knoell, C. M. "Summer Math Institute for Bryant Elementary Teachers," University of Nebraska Kearney, Kearney. (June 2006).

Strawhecker, J. E., Knoell, C. M. Nebraska Association of the Teachers of Mathematics Spring Conference, "M3 – Making mathematics meaningful for grades 2-6," Nebraska Association of the Teachers of Mathematics, Kearney, NE. (February 26, 2006).

Ziebarth-Bovill, J., Strawhecker, J. E., B. N., S. B. 2005 NNER Annual Conference, "Multiple Perspectives with One Common Goal for Promoting Partner Schools and Hybrid Educators," NNER, Myrtle Beach, South Carolina. (October 2005).

## Contracts, Grants and Sponsored Research

### Funded Grants

Nebesniak, A. L. (Principal), Knoell, C. M. (Co-Principal), Vu, P. H. (Co-Principal), Strawhecker, J. E. (Co-Principal), "Engaging Math: Professional Development through the Flipped Classroom Model," Sponsored by Coordinating Commission for Postsecondary Education, State, $73,000.00. (March 2015 - August 2016).

Strawhecker (Principal), Tracy, G. (Co-Principal), “Tools for Learning Mathematics,” Office of Service Learning, UNK. $2,000.00. (2003).

Strawhecker, J. E. (Principal), Clark, B. (Co-Principal), Lutfiyya, L. (Co-Principal), Niemann, D. (Co-Principal), "Making Math Count: Preparing Tomorrow’s Elementary Teachers," Sponsored by Eisenhower Professional Development grant, State, $23,391.00. (2002).

Clark, B. (Principal), Strawhecker, J. E. (Co-Principal), Lutfiyya, L. (Co-Principal), Niemann, D. (Co-Principal), " Improving the Mathematics Subject-matter Preparation of Elementary School Teachers " Sponsored by American Association of State Colleges & Universities, National, $4,000.00. (2001).

### Sponsored Research

Strawhecker, J. E. (Supporting), "A Fraction Intervention: Linking Concepts and Procedures," Sponsored by Summer Student Research, University of Nebraska at Kearney. (May 2015 - August 2015).

Strawhecker, J. E. (Supporting), " Social orientation and instructional practices: An international

comparison of High School Teachers,” Sponsored by Undergraduate Research Fellows Program, University of Nebraska at Kearney. (January 2014 – May 2014).

Strawhecker, J. E. (Supporting), "The Achievement Gap in Mathematics: A Survey of Midwest Teachers of Diversity," Sponsored by Summer Student Research, University of Nebraska at Kearney. (May 2012 - July 2012).

# Service

## Department Service

Committee Chair, Teacher Education Scholarship Committee. (January 2015 - Present).

Committee Chair, Teacher Education Awards Night. (May 2011 - Present).

Committee Chair, COE Foundation Scholarship. (February 2010 - Present).

Committee Member, Student Success. (August 2009 - Present).

Committee Member, Peer Review and Promotion. (November 2008 - Present).

Committee Member, Teacher Education Director of Field Search Committee. (May 2017 - Present).

Committee Member, Science/Math Education M.S.Ed. Program Committee. (May 2013 - May 2016).

Committee Member, Search Committee: TE Department Chair. (September 2015 - February 2016).

Committee Member, Elementary Education Room Decoration / Restoration (C208). (January 2012 - August 2015).

Committee Member, Search Committee for Department Chair. (September 2014 - February 2015).

Committee Member, Teacher Education Scholarship Committee. (March 2008 - January 2015).

Committee Member, Search Committee: TE Department Chair. (January 2012 - April 2012).

Committee Chair, Retention and Recruitment. (August 2008 - May 2009).

## College Service

Committee Member, College of Education Coordinating Council. (August 2010 - Present).

Faculty Advisor, Kappa Delta Pi Education Honor Society. (August 2008 - Present).

Committee Member, CAEP Accreditation Standard 1 Team. (January 2016 - December 2016).

Committee Member, CAEP Lesson/Unit Plan Template Taskforce. (May 2016 - July 2016).

Committee Member, CAEP Dispositions Taskforce. (March 2016 - June 2016).

Committee Member, Faculty Senate Athletic Committee (August 2008 - May 2015).

Committee Member, Dean's Search Committee. (November 2013 - August 2014).

Committee Member, Pratt Heins Selection Committee. (April 2008 - April 2014).

Committee Member, Academic Policies and Standards. (January 2004 - August 2010).

## University Service

Committee Member, OTICA (University-Wide) Selection Committee. (November 2014 - 2016).

Innovation Task Force. (September 2014 - April 2015).

Committee Member, NCA Criterion 2 Self-Study Team. (August 2012 - June 2013).

Committee Member, Writing Intensive / Cultural Diverse. (August 2010 - 2012).

Committee Member, Search Committee for Men's/Women's Tennis Coach. (May 2009 - August 2009).

Undergraduate Research Council. (August 2006 - May 2009).

## Professional Service

Member, Central Nebraska Math Teacher's Circle. (2008 - 2015).

Committee Member, NCTE Elementary Education Ad Hoc Committee. (August 2010 - May 2011).

## Public Service

Board Member, Kearney Tennis Association. (2007 - Present).

Committee Member, Kearney Public Schools Class Act Fundraising (2007)

Volunteer, Kearney High School Boys Tennis, (2008, 2012, 2016-Present).