

Pamela S. Beck
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Summary

Dedicated teacher focused on meeting the needs of students and colleagues to ensure their success at the highest level. Experienced in mentoring new teachers, evaluating pre-service teachers, and conducting professional development presentations. Demonstrated strength in data analysis and implementations of interventions.

Skills

Google Classroom
Microsoft Office
Teaching
Smartboard
Leadership

Communication
Strong data analysis skills
Presentations
Lifelong learner
Advocate for students and staff

Education

Ph.D., Mathematics Education, Illinois State University May 2022

Dissertation: *Exploring Middle School Students' Strategies When Solving Surface Area Tasks*

Dissertation Chairs: Drs. Cynthia Langrall and Amanda Cullen

Dissertation Committee: Drs. Jeffrey Barrett, Edward Mooney, George Rutherford

M.S., Educational Leadership, American College of Education December 2011

Internship under the direction of Michelle Zeko, Ladd Community Consolidated School

B.S., Middle Level Education, Illinois State University May 2004

Mathematics Teacher Education

Honors Mathematics Project: Sherry Bair

A.S., General Studies, Illinois Valley Community College December 2002

Teaching Certification

Illinois State Elementary Teaching Certificate, K-9

Middle school endorsements in Mathematics, Music, and Social Science

General Administration License

Completed the Teacher Evaluation Course

Teaching

Mathematics Intervention Coordinator

8/2021 - Current

Peru Elementary School District/Northview School

- Identify students who need intervention
- Create interventions to fill in gaps and compliment the curriculum
- Progress monitor students and watch growth
- Assist teachers with curriculum and standards

Junior High Teacher/Grades 7 and 8 Homeroom

8/2019 – 6/2021

Dalzell Grade School

- Taught mathematics, science, and social studies
- Maintained technology for students and staff

Grade 4 Teacher

8/2018 – 5/2019

Ladd Community Consolidated School

- Grade 4 classroom teacher
- Whole class, small group, and individualized instruction
- Professional development for mathematics teaching

Graduate Teaching Assistant/Teacher of Record

8/2015–5/2018

Department of Mathematics, Illinois State University, Normal, IL

- Taught Teaching Mathematics in the Elementary School (elementary mathematics methods course with clinical experiences in Grades 2 and 4)
- Taught Dimensions of Mathematical Reasoning (geometry, algebra, and statistics content for the K–8 teacher)
- Mentored in two courses
 - Algebraic Reasoning for the Middle School Teachers
 - included algebraic proof
 - Dimensions of Numerical Reasoning
 - rational numbers, base ten system and other number bases, and

Grades 6–8 Mathematics/Grade 6 Homeroom Teacher

8/2005 – 6/2013

Ladd Community Consolidated School

- Grades 6, 7, and 8 mathematics
- Grade 6 social studies, health, and art
- Grade 8 music and art
- Mentor new faculty members
- Kindergarten–Grade 5 mathematics improvement (individual, small group, and whole class interventions)

Research

Graduate Research Assistant

8/2013 – 6/2015

Department of Mathematics, Illinois State University, Normal IL

Learning Trajectories to Support the Development of Measurement Knowledge, Pre-K through Middle School

Drs. Jeffrey E. Barrett, Douglas H. Clements, Julie Sarama, and Craig J. Cullen

- Longitudinal and microgenetic studies to refine and extend learning trajectories
- Collaborate with teachers at the school where we conducted our research studies
- Collaborate with the other research team members
- Design and implement tasks
- Conduct interviews and analyze data
- Contribute to the writing of publications
- Create and present the information at researcher and teacher conferences

Publications

Beck, P. S., (2022). *Exploring Middle School Students' Strategies When Solving Surface Area Tasks* [Unpublished doctoral dissertation]. Illinois State University.

O'dell, J. R., Barrett, J. E., Cullen, C. J., Rupnow, T., Clements, D. H., Sarama, J., Rutherford, G., & **Beck, P. S.** (2017). Using a virtual manipulative environment to support students' organizational structuring of volume units. In E. Galindo & J. Newton, (Eds.). *Proceedings of the 39th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Indianapolis, IN: Purdue University.

Barrett, J. E., Cullen, C. J., **Beck, P. S.**, Eames, C. L., Clements, D. H., Sarama, J. & Klanderma, D. (2015). *Children's Estimation and Measurement of Area*. Paper presented at the 2015 Annual Meeting of the American Educational Research Association, Chicago, IL, April 16-19, 2015.

Rupnow, T. J., Cullen, C. J., **Beck, P. S.**, Barrett, J. E., Clements, D. H., Sarama, J. (2015). Children's three-dimensional mental structuring using a dynamic computer environment. A brief research report in T. G. Bartell, K. N. Bieda, R. T. Putnam, K. Bradfield, & H. Dominguez. (Eds.). *Proceedings of the 37th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. East Lansing, MI: Michigan State University.

Beck, P. S., Eames, C. L., Cullen C. J., Barrett, J. E., Clements, D. H., & Sarama, J. (2014). Linking children's knowledge of length measurement to their use of double number lines. In P. Liljedahl, C. Nicol, S. Oesterle, & D. Allan. (Eds.). *Proceedings of the 38th Annual Conference of the International Group for the Psychology of Mathematics Education*. (Vol. 2) (pp. 105-112). Vancouver, Canada: PME.

Presentations

Beck, P.S. (2019). *Going Deeper Than Area = Length x Width*. Presentation at Illinois Council of Teachers of Mathematics Conference. Peoria, IL. <http://bit.ly/ICTM2019BeckArea>

O'dell, J. R., Barrett, J. E., Cullen, C. J., Rupnow, T., Clements, D. H., Sarama, J., Rutherford, G., & **Beck, P. S.** (2017). Using a virtual manipulative environment to support students' organizational structuring of volume units. In E. Galindo & J. Newton, (Eds.). *Proceedings of the 39th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Indianapolis, IN: Hoosier Association of Mathematics Teacher Educators.

Beck, P. S. (2017, December) *Conceptualizing Surface Area Measurement in Middle School Classrooms: A Sequence of Tasks*. Presentation at National Council of Teachers of Mathematics Regional Conference and Exposition, Chicago, IL.

Beck, P. S. (2016, October) *Caught in a Net? Surface Area Strategies!* Presentation at Illinois Council of Teachers of Mathematics Conference, Peoria, IL.

Beck, P. S., Rupnow, T. J., Barrett, J. E., Cullen, C. J., Clements, D. H., Sarama, J., & Van Dine, D. (2016, April) *Volume Formulas, Are They All Right?* Presentation at National Council of Teachers of Mathematics Conference, San Francisco, CA.

Beck, P. S., Barrett, J. E., Cullen, C. J., & Rupnow, T. J. (2015, October) *Measuring the Base and Height of Triangles*. Presentation at Illinois Council of Teachers of Mathematics Conference, Tinley Park, IL.

Rupnow, T. J., Cullen, C. J., Barrett, J. E., & **Beck, P. S.** (2015, October). *Measurement as a Concrete Introduction to Variable*. Presentation at Illinois Council of Teachers of Mathematics Conference, Tinley Park, IL.

Barrett, J. E., Cullen, C. J., & **Beck, P. S.** (2015, April). *Building the Base and Attaching the Altitude: Measuring Triangles*. Presentation at National Council of Teachers of Mathematics, Boston, MA.

Beck, P. S., Eames, C. L., Barrett, J. E., & Cullen, C. J. (2015, April). *Volume Measurement: Connecting 3-D Space and Number*. Presentation at National Council of Teachers of Mathematics, Boston, MA.

Beck, P. S., Barrett, J. E., Cullen, C. J., Eames, C. L., Clements, D. H., & Sarama, J. (2014, October) *Turn up the Volume!* Presentation at Illinois Council of Teachers of Mathematics Conference, Tinley Park, IL.

Beck, P. S., & Wessman-Enzinger, N. M. (2014, October). *Compass or protractor: What is this tool?* Presentation at Illinois Council of Teachers of Mathematics Conference, Tinley Park, IL.

Beck, P. S., Eames, C. L., Cullen C. J., Barrett, J. E., Clements, D. H., & Sarama, J. (2014). Linking children's knowledge of length measurement to their use of double number lines. In P. Liljedahl, C. Nicol, S. Oesterle, & D. Allan. (Eds.). *Proceedings of the 38th Annual Conference of the International Group for the Psychology of Mathematics Education*. (Vol. 2) (pp. 105-112). Vancouver, Canada: PME.

Awards

Ora Bretall Graduate Scholarship 2017
Illinois State University

Ladd Community Consolidated School District Foundation Grant 2010
This project funded my classroom with a smartboard and a laptop with Geometer's Sketchpad, as well as additional licenses of Geometer's Sketchpad for a mobile lab of 18 computers and each teacher K-5.

Magna Cum Laude 2004
Illinois State University

Professional Service

Reviewer/Referee (Journal)

Journal for Research in Mathematics Education
Reviewer of journal article submission 2019

Mathematics Teaching in the Middle School
Reviewer of journal article submission 2018

Teaching Children Mathematics
Reviewer of journal article submission 2018, 2018

Reviewer/Referee (Conferences)

National Council of Teachers of Mathematics Research Conference
Reviewer of conference proposals 2017

North American Chapter of the International Group for the Psychology of Mathematics
Reviewer of conference proposals 2016

Professional Memberships

National Council of Teachers of Mathematics

Illinois Council of Teacher of Mathematics

North American Chapter of the International Group for the Psychology of Mathematics Education