

**Alicia M. McDyre, Ph.D.**  
Curriculum Vitae

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## EDUCATION

Ph.D. Curriculum & Instruction (Science Education, Women's Studies minor), **The Pennsylvania State University**, 2014.

- Dissertation title: Kindergarten girls "illuminating" their identities-in-practice through science instruction framed in explanation building: From the shadows into the light
- Dissertation chairs: Carla Zembal-Saul, Gregory J. Kelly; Committee members: Heather Toomey-Zimmerman, Stephanie C. Serriere

M.S. Biology, **Shippensburg University**, 2007.

M.Ed. Curriculum & Instruction, **The Pennsylvania State University**, 2003.

B.S. Biology with Secondary Education certification, **Shippensburg University**, 1998.

## PROFESSIONAL EXPERIENCE

### **The Pennsylvania State University**

<i>Coordinator of PK-4 and 4-8 field experiences</i>	<i>2016-present</i>
<i>Assistant professor; fixed-term</i>	<i>2014-present</i>
<i>Fixed-term faculty member</i>	<i>2013-2014</i>
<i>CEAED program manager</i>	<i>2014-2016</i>
<i>Professional development associate (PDA)</i>	<i>2013-2016</i>
<i>Schreyer's Honors Thesis reader</i>	<i>2016</i>
<i>Researcher/ Research assistant</i>	<i>2009-2014</i>

### **Bellefonte Area School District**

*Professional development provider* *February 2017*

### **Hollidaysburg Catholic Schools**

*Professional development provider* *October 2016*

### **Iowa Department of Education**

*Professional development provider* *June 2016*

### **Clayton County Schools, Atlanta, GA**

*Professional development provider* *June 2016*

### **Vermont Department of Education**

*Consultant and professional development provider* *2013-2014*

### **Baltimore County School District**

*Consultant and professional development provider* *Fall 2013*

### **Museum of Science; Engineering is Elementary**

*Reviewer and evaluator of Engineering is Elementary (EiE) units* *2013*

### **Biological Sciences Curriculum Study**

*Field tester for Tying Words to Images of Science Teaching (TWIST) project* *2012*

### **Central York School District**

<i>Middle School Science Teacher</i>	1998–2009
<i>Envirothon Coach</i>	1998–2003, 2007–2008
<b>People to People Ambassador Program</b>	
<i>Leadership mentor and chaperone</i>	2003
<i>Global ambassador and mentor</i>	2002

## PUBLICATIONS

**McDyre, A.** (2017). Kindergarten girls as epistemic agents during science time. In *Reframing science teaching and learning: Students and teachers co-constructing science practices in and out of school*, p.45-61. New York: Routledge.

**McDyre, A.** (2016). Curriculum that supports 3-D teaching and learning. *A white paper written for Triumph Learning*. New York, NY.

## PRESENTATIONS

Jang, CW., **McDyre, A.**, McDonald, C., & Wolkenhauer, R. (2017, February). *Where do Communities of Learners Situate Themselves within a Professional Development School Partnership?: A Trioethnographic Exploration of Hybrid Teacher Educator Roles*. Presentation accepted for The Association of Teacher Educators annual conference, Orlando, FL.

Corkery, J., Jeffries, J., Grimaldi, H., Seiverd, A., & **McDyre, A.** (2016, March). *Primary students and teachers practicing authentic engineering practices: Look, draw, build, and do it again*. Presentation at National Science Teachers Association annual conference, Nashville, TN.

**McDyre, A.** & Pagnotto, L. (2016, March). *Scaffolding experiences for authentic intern learning while navigating PDS relationships*. Presentation at National Association of Professional Development Schools annual conference, Washington, D.C.

**McDyre, A.**, Pagnotto, L., Dillon, S., Jeffries, J., Pohl, J. (2015, March). *Collaborating as a reflective community, to maintain a focus on science phenomenon, while ensuring equity for all students*. Presentation at National Association of Professional Development Schools, Atlanta, GA.

**McDyre, A.** (2015, April). *Kindergarten Girls as Epistemic Agents during a Light and Shadows Unit*. Poster presentation at American Education Research Association annual conference, Chicago, IL.

**McDyre, A.**, Zembal-Saul, C. , & Kelly, G. (2015, April). *Exploring kindergarten girls' identities-in-practice through discourse*. Presentation at National Association for Research in Science Teaching annual conference, Chicago, IL.

**McDyre, A.**, Hershberger, K., & Gleason, M. (2015, March). *Using the NGSS Practices and Reflection to Build Confidence in Pre-service Elementary Science Educators*. Presentation at National Science Teachers Association annual conference, Chicago, IL.

Merritt, M., **McDyre, A.**, Kur, J., & Brown, J. (2013, February). *Learning from practice: Video analysis in support of teacher inquiry in the PDS*. Paper presented at the annual meeting of National Association of Professional Development Schools, Las Vegas, NV.

Merritt, M, **McDyre, A.**, & Zembal-Saul, C. (2013, April). *Elementary Teachers' Uptake of Aspects of the Framework for Constructing Explanations in Science*. Paper presented at annual meeting of the National Association for Research in Science Teaching, San Juan, PR.

**McDyre, A.**, Dillon, S., & Jeffries, J. (2013, April). *"Catch me if you can!" says the Gingerbread bear: Kindergarten students "run, run, run" to collect evidence while writing the "recipe" for science talks*. Presented at the annual conference for the National Science Teacher's Association, San Antonio, TX.

**McDyre, A.** (2012, April). *Figured worlds as a lens for understanding girls' identity in a kindergarten science classroom*. Poster presentation at National Association for Research in Science Teaching annual conference, Indianapolis, IN

Zemal-Saul, C., Merritt, M., **McDyre, A.**, Cullin, E., & Cody, J. (2012, February). *Do you see what I see? Video analysis helps PDS interns attend to students' ideas*. Presented at National Association for Professional Development Schools annual conference, Las Vegas, NV.

Smith, D., Haefner, L., & **McDyre, A.** (2012, January). *You want me to do what!? Replacing traditional assessments with authentic digital artifacts in pre-service elementary science teacher education*. Presented at The Association for Science Teacher Education, Clearwater, FL.

**McDyre, A.** & Smith D. (2011, April). *Building a scientific identity in the figured worlds of kindergarten science*. Presented at the National Association for Research in Science Teaching annual conference, Orlando, FL.

**McDyre, A.** & Smith, D. (2010, October). *Building a scientific identity in the figured worlds of kindergarten science*. Presented at the Research on Women and Education 36<sup>th</sup> annual fall conference, Philadelphia, PA.

**McDyre, A.** & Brown, K. (2008, March). *Hissing hysterics*. Presented at the National Science Teachers Association annual conference, Boston, MA.

**McDyre, A.** (2004, February). *Digital videography*. Presented at the Pennsylvania Middle School Association regional conference, State College, PA.

**Delzangle-McDyre, A.** (2001, March). *Amusement park physics*. Presented at the National Science Teachers Association annual conference, San Diego CA.

## **WORKSHOPS**

Zemal-Saul, C., **McDyre, A.**, & Hooper, L. (2016, June). *What's Your Evidence? Introducing NGSS*. Professional development workshop for Clayton County teachers, Atlanta, GA.

Zemal-Saul, C., Haefner, L., & **McDyre, A.** (2016, June). *Teaching NGSS in K-5: Iowa State Standards Immersion Institute*. Professional development workshop for Iowa educators, Des Moines, IA.

Zemal-Saul, C., Hersheberger, K., Kur, J., **McDyre, A.**, & Merritt, M. (2014, May). *Engaging K-5 students in constructing explanations in science*. Professional development workshop for Vermont teachers, Barre, VT.

Zemal-Saul, C., Kur, J., **McDyre, A.**, & Merritt, M. (2014, October). *Engaging K-5 students in constructing explanations in science #2*. Professional development workshop for Vermont teachers, Barre, VT.

**McDyre, A.** (2013, November). *Engaging K-5 students in constructing explanations in science*. Professional development for Penn State Altoona PDS science educators and school district faculty, Altoona, PA.

## AWARDS

- University Women's Club Endowed Scholarship, *The Pennsylvania State University*, 2014
- Doris Niebel Scholarship, *The Pennsylvania State University*, 2009-2012
- Sandra K. Abell Summer Research Institute Fellow, *National Association of Research in Science Teaching*, Summer 2011
- Leadership for Diverse Schools Graduate, *York County School Districts*, 2008
- Outstanding Teacher Award, *Shippensburg University*, 2004
- Outstanding Student Teacher Award, *Shippensburg University*, 1998

## PROFESSIONAL ACTIVITIES

- Schreyer's Honors College, The Pennsylvania State University** 2016-present  
*Application reader*
- Technology Student Association, Section 8** 2017  
*Judge for regional event at Penn's Valley*
- The Association of Teacher Educators** 2016-present  
*Conference proposal reviewer*
- National Association of Professional Development Schools** 2016-present  
*Conference proposal reviewer*
- National Association of Research in Science Teaching**  
*Co-strand coordinator* 2014-2015  
*Conference proposal reviewer* 2009-present
- American Education Research Association** 2010-present  
*Conference proposal reviewer*
- The Association for Science Teacher Education** 2010-2013  
*Conference proposal reviewer*
- The Pennsylvania State University**  
*Search committee graduate student representative* 2012  
*Science U volunteer for informal science programs* 2011  
*Videographer for video study group* 2009-2013  
*Participant in video study group and mentor for elementary in-service teachers* 2010-present
- Discovery Space of Central Pennsylvania** 2010  
*Science Education Junior Exhibit Designer*

## PROFESSIONAL AFFILIATIONS

- The Association of Teacher Educators*
- The Association for Science Teacher Educators*
- National Science Teachers Association*
- American Educational Research Association*
- National Association of Research in Science Teaching*
- National Association of Professional Development School*