

# IES Funded Research Presentations

## 2015 SRCD Biennial Meeting

March 19 - 21, 2015

### Thursday-March 19, 2015

**(Event 1-003) Poster Session** Exhibit Hall A (Penn CC, 200 Level)

**1-003. Poster Session 1**

9:55am-11:10am

**88** The teacher-assistant dyad: Understanding how pre-k classrooms balance instruction, emotional support, and management *Sascha Mowrey, Dale C Farran*

**(Event 1-028) Paper Symposium** Room 411/412 (Marriott, Level 4)

**1-028. Helping Young Children to Positively Engage in Early Childhood Classrooms: Findings from Three Social-emotional Learning Programs**

10:10am-11:40am

Chair: *Rebecca J Bulotsky Shearer*

Discussant: *Stephanie M Jones*

• Data-driven Early Childhood Mental Health Consultation with Teachers to Improve Children's Engagement in Preschool Classrooms *Jason Downer, Amanda P Williford, Rebecca J Bulotsky Shearer, Ann L'hospital*

**(Event 1-037) Paper Symposium** Franklin Hall 9 (Marriott, Level 4)

**1-037. Recent Contributions to Understanding and Supporting Children's Transitions to Kindergarten**

10:10am-11:40am

Chair: *Beth Rous*

• Preparing High-Risk Children and Families for the Kindergarten Transition *Katherine C Pears, Hyoun Kim, Cynthia Valentine Healey, Philip Andrew Fisher*

**(Event 1-042) Conversation Roundtable** Grand Ballroom Salon A (Marriott, Level 5) Thursday,

**1-042. Bridging Research and Practice: Using Web-based Training to Promote Early Childhood Interventions for Children in Poverty**

10:10am-11:40am

Moderator: *Carol Scheffner Hammer*

Panelists: *Edward Feil, Karen L Bierman, Susan H. Landry, Barbara A. Wasik*

**Federal Agency Poster Session**, Penn CC, 200 Level, Exhibit Hall A of the Convention Center

11:55am-1:10pm

2-G-1: Funding Opportunities at the Institute of Education Sciences

**IES Staff:** Caroline Ebanks and Amy Sussman

**(Event 1-095) Paper Symposium** Grand Ballroom Salon B (Marriott, Level 5)

**1-095. • Effective Uses of Technology to Support Early Childhood Practice**

12:15pm-1:45pm

Chairs: *Marc W Hernandez, Susan Walker*

- Using Technology to Provide an Integrated Professional Development System for Early Childhood Educators *Susan H. Landry, Michael Assel, Tricia A Zucker, April Crawford, Jeffrey Williams, Pauline Monseque-Bailey*
- MyTeachingPartner Video Coaching: What We Have Learned about Impacts and Teacher Engagement *Bridget K. Hamre, Robert C Pianta, Jason Downer, Jennifer LoCasale-Crouch*

**(Event 1-115) Paper Symposium** Room 106AB (Penn CC, 100 Level)

**1-115. Making Sense of Self-Regulation: Results from Programs to Improve the Control of Attention, Emotion, and Executive Functions**

2:10pm-3:40pm

- Assessment and expansion of a dual-generation intervention targeting attention and self-regulation in at-risk preschoolers *Eric Pakulak, Theodore A Bell, Courtney Stevens, Jessica Fanning, Scott Klein, Elif Isbell, Zayra Longoria, Amanda Hampton Wray, Christina Karns, Ryan Guiliano, Helen Neville*
- Changes in Neural Correlates of Self-Regulation through a Readiness Intervention for Children with Developmental Disabilities *Leslie Roos, Katherine C Pears, Jacqueline Bruce, Jennifer Martin McDermott, Philip Andrew Fisher*
- Closing the Gap: Results from a Randomized Trial of an Innovative Approach to the Education of Children in Kindergarten *Clancy Blair, Cybele Raver, Deborah J Leong, Elena Bodrova*

**(Event 1-120) Paper Symposium** Room 202A (Penn CC, 200 Level)

**1-120. Strengthening Developmental Science with the Use of Innovative Methods**

2:10pm-3:40pm

Chair: *Justin Jager*

Discussant: *Pamela Davis-Kean*

- Early math skills and later achievement: Which kindergarten common core domains most predict fifth grade math achievement? *Tyler W. Watts, Greg J Duncan, Douglas H Clements, Julie Sarama, Christopher B Wolfe, Mary Elaine Spitzer*

**(Event 1-149) Paper Session** Grand Ballroom Salon J (Marriott, Level 5)

**1-149. Taking Pre-K to Scale: New Measures and Models for Estimating Impact**

2:10pm-3:40pm

Chair: *Bridget K. Hamre*

- Exploring the presence of unique domains of teacher-child interactions within a state's prekindergarten system *Bridget E Hatfield, Staci W Ebadirad, Bridget K. Hamre, Robert C Pianta, Bentley Ponder*

**Federal Agency Symposium** Room 104B (Penn CC, 100 Level)

**Investigating Early Childhood: Determining Your Match with Agency Initiatives and Priorities, and Available Datasets**

2:10pm-3:40pm

**IES Staff:** *Caroline Ebanks, Gail Mulligan, and Amy Sussman.*

**(Event 1-174) Paper Symposium** Room 203B (Penn CC, 200 Level)

**1-174. Short- and long-term impacts of classroom-based social-emotional learning interventions during early schooling**

4:05pm-5:35pm

Chair: *Jason Downer*

Discussant: *Joshua L Brown*

- Improving children's social and emotional skills with Preschool RULER *Shauna L Tominey, Craig S. Bailey, Susan E Rivers, Elisabeth C O'Bryon, Svea G. Olsen, Virginia D Peisch, Sherri Widen, Marc A Brackett*

- Examining the Impacts of 4Rs+MTP on Children’s Social-Emotional, Behavioral and Academic Competence in Urban Elementary Schools *Jason Downer, Joshua L Brown, Andres Molano, Megan Stuhlman, Bridget K. Hamre, Stephanie M Jones, Hannah R. Wertz, Christina L. Rucinski*

**(Event 1-185) Paper Symposium** Franklin Hall 5 (Marriott, Level 4)

**1-185. Applying Developmental Science in Real World Settings to Address Poverty-related Disparities in School Readiness**

4:05pm-5:35pm

Chairs: *Alan L Mendelsohn, Adriana Weisleder*

- The Challenge of Changing Preschool Teachers’ Language Practices *David K Dickinson, Molly Fuller Collins, Elizabeth Burke Hadley, Kimberly Turner Nesbitt, Katherine Newman, Mae Pierce, Bretta L. Rivera, Hande Ilgaz, Brenna Hassinger-Das, Tamara Spiewak Toub, Ageliki Nicolopoulou, Roberta M Golinkoff, Kathryn A Hirsh-Pasek*
- Guided Play: A New Pedagogical Approach to High Quality Early Learning *Kathryn A Hirsh-Pasek, Jennifer M. Zosh, Roberta M Golinkoff*

**(Event 1-199) Paper Symposium** Grand Ballroom Salon L (Marriott, Level 5)

**1-199. The Relationship between Spatial Thinking and Mathematics in Early Childhood**

4:05pm-5:35pm

The Relation between Space and Math: An Exploratory Factor Analysis *Kelly Sue Mix, Susan Cohen Levine, Yiling Cheng, Christopher J Young*

**Friday, March 20, 2015**

**(Event 2-012) Paper Symposium** Room 106AB (Penn CC, 100 Level)

**2-012. Improving School Readiness through Preschool Curricula: Roles of Curricula Type, Coaching, Instructional Practices, and Scale-Up**

8:00am-9:30am

Chair: *Elizabeth T. Gershoff*

Discussant: *Dale C Farran*

- Boosting School Readiness with Preschool Curricula and Quality *Greg J Duncan, Jade V Marcus Jenkins, Anamarie Auger, Margaret Burchinal, Thurston Domina, Marianne Bitler*
- Instructional Quality and Child Outcome Changes in Community-Based Prekindergarten After a Coaching and Curriculum Intervention *Monica S Yudron, Christina J Weiland, Jason Sachs*

**(Event 2-028) Paper Symposium** Franklin Hall 1 (Marriott, Level 4)

**2-028. Beyond Book-Reading: Promoting Vocabulary Development Through Innovative Activities**

8:00am-9:30am

Chair: *Tamara Spiewak Toub*

- Playing to Learn: How Book-Reading + Guided Play can Improve Vocabulary for Low-Income Preschoolers *Brenna Hassinger-Das, Tamara Spiewak Toub, Hande Ilgaz, Deena Skolnick Weisberg, Kimberly Turner Nesbitt, Molly Fuller Collins, Jessica Eye, Elizabeth Burke Hadley, Bretta L. Rivera, Katherine Newman, Kathryn A Hirsh-Pasek, Roberta M Golinkoff, David K Dickinson, Ageliki Nicolopoulou*
- Fostering Conceptual Word Knowledge in Preschoolers Through Informational Books and Play *Elizabeth Burke Hadley, David K Dickinson, Kathryn A Hirsh-Pasek, Roberta M Golinkoff*

**(Event 2-038) Conversation Roundtable** Franklin Hall 11 (Marriott, Level 4)

**2-038. In search of a consensus: Addressing key issues in the study of self-regulation in childhood and adolescence**

8:00am-9:30am

Moderator: *Steinunn Gestsdottir*

Panelists: *Richard M Lerner, Megan M McClelland, Kristin L Moilanen, G. John Geldhof*

**(Event 2-049) Poster Session** Exhibit Hall A (Penn CC, 200 Level)

**2-049. Poster Session 5**

8:30am-9:45am

**Education, Schooling**

**100** The Role of Long Division in the Acquisition of Fractions *Rony Patel, Robert S Siegler*

**(Event 2-078) Paper Symposium** Franklin Hall 2 (Marriott, Level 4)

**2-078. Integrated School Readiness Interventions**

9:55am-11:25am

Chairs: *Helena Duch, Kimberly G Noble*

- Math and math + scaffolded play interventions: Analyses of main effects on development of math competence and executive function *Carrie Germeroth, Douglas H Clements, Julie Sarama, Carolyn Layzer, Fatih Unlu, Lily Fesler*
- Implementation of an integrated dual-generation intervention targeting attention and self-regulation in at-risk preschoolers *Eric Pakulak, Theodore A Bell, Courtney Stevens, Jessica Fanning, Scott Klein, Elif Isbell, Zayra Longoria, Amanda Hampton Wray, Christina Karns, Ryan Guiliano, Helen Neville*
- Getting Ready for School: Assessing the feasibility and fidelity of an integrated school readiness intervention *Helena Duch, Saskia Op den Bosch*

**(Event 2-096) Poster Session** Exhibit Hall A (Penn CC, 200 Level)

**2-096. Poster Session 6**

10:25am-11:40am

**Cognitive Processes**

**41** It's a Pattern! The Importance of Early Pattern Knowledge for Middle School Mathematics Achievement

*Bethany Rittle Johnson, Kerry Guess Hofer, Dale C Farran*

**Education, Schooling**

**86** Early Understanding of Math Equivalence Predicts Future Math Achievement *Brianna Devlin, Nicole McNeil, Cristina Carrazza, Caroline Byrd, Mary O McKeever*

**94** The Role of ADHD Symptomatology in Response to a Narrative Comprehension Intervention *Laura Vincent, Angela N Hayden, Janice Almasi, Alison Kaiser, Sara Reeves, Stephanie Hilton, Elizabeth P Lorch*

**104** The Role of Media in the Narrative Comprehension Deficits of Children At-Risk for ADHD *Angela N Hayden, Kelly Moore, Elizabeth P Lorch, Rich Milich*

**(Event 2-174) Paper Symposium** Franklin Hall 3 (Marriott, Level 4)

**2-174. Applying Developmental Science to Assess Language in Diverse Preschoolers**

1:55pm-3:25pm

Chair: *Amy Pace*

Discussant: *Philip S Dale*

- With the Touch of a Screen: Introducing an Innovative Preschool Language Assessment Tool *Roberta M Golinkoff, Mary S. Wilson, Katherine E Ridge, Giovanna Morini, Kristina Strother-Garcia, Natalie Brezack*
- Using a Computerized Assessment to Capture Linguistic Knowledge in Spanish-English Bilingual Preschoolers *Jill G de Villiers, Aquiles Iglesias, Andrea Takahesu Tabori*

## Saturday, March 21, 2015

**(Event 3-006) Paper Symposium** Room 103B (Penn CC, 100 Level)

### **3-006. Comparing Effectiveness of Head Start and Pre-K Programs**

8:00am-9:30am

Chair: *Jeanne Brooks-Gunn*

Discussant: *John M Love*

• Can Research Design Explain Variation in Head Start Research Results? A Meta-analysis of Cognitive and Achievement Outcomes *Katherine Magnuson, Hilary Shager, Holly S. Schindler, Greg J Duncan, Hirokazu Yoshikawa, Cassandra Hart*

**(Event 3-045) Paper Symposium** Grand Ballroom Salon J (Marriott, Level 5)

### **3-045. Cumulative Advantage and Risk as Predictors of School Readiness and Academic Achievement**

8:00am-9:30am

Chair: *Carlos Valiente*

Discussant: *Cybele Raver*

• Understanding the Relation Between Multiple Risks and Early Self-Regulation *Megan E Pratt, Megan M McClelland, Shannon Tierney Lipscomb*

### **Federal Agency Symposium: The Institute of Education Sciences: Research Funding Opportunities and the Peer Review Process** Room 203A (Penn CC, 200 Level)

8:00am-9:30am

**IES Staff:** Caroline Ebanks, Anne Ricciutti, and Amy Sussman.

**(Event 3-048) Poster Session** Exhibit Hall A (Penn CC, 200 Level)

### **3-048. Poster Session 10**

8:00am-9:30am

#### **Education, Schooling**

**96** Improving Students' Knowledge of Fractions *Lisa Fazio, Casey A Kennedy, Robert S Siegler*

**202** The Association Between Executive Functioning, Socio-Emotional Skills, and School Readiness in Preschool *Carole Upshur, Melodie Wenz-Gross, Anhoula Poulakos*

**(Event 3-055) Paper Symposium** Room 103C (Penn CC, 100 Level)

### **3-055. Intervention Impacts on the Nature and Quality of Teacher-Student Interactions: Implications for Scale-Up and Efficiency**

9:55am-11:25am

Chair: *Robert C Pianta*

Discussant: *Tamara Gail Halle*

• Dose-Response Relations between Pre-K Teachers' Exposure to Coaching and Increases in Quality of Teacher-Child Interaction *Robert C Pianta, Jamie DeCoster, Sonia Q Cabell, Margaret Burchinal, Bridget K. Hamre, Jason Downer, Jennifer LoCasale-Crouch, Amanda P Williford, Carollee Howes*

**(Event 3-068) Paper Symposium** Room 204B (Penn CC, 200 Level)

### **3-068. Two-generation intervention approaches for families living in poverty: Insights from neuroscience, psychology, and intervention**

9:55am-11:25am

Chair: *Pilyoung Kim*

Discussant: *Sarah E Watamura*

• Effects of socioeconomic status on cognition and related neural systems in childhood and adulthood *Courtney Stevens, Eric Pakulak, Yoshiko Yamada, Amanda Hampton Wray, Helen Neville*

**(Event 3-071) Paper Symposium** Room 401/402/403 (Marriott, Level 4) **3-071. Exploring the Bilingual Executive Function Advantage in Spanish- and English-Speaking Dual Language Learners**

9:55am-11:25am

Chair: *Clancy Blair*

- Effects of Bilingualism on Executive Functioning and Science Knowledge in Spanish- and English-Speaking Head Start Preschoolers *Lisa White, Daryl B Greenfield*

**(Event 3-085) Paper Symposium** Franklin Hall 12 (Marriott, Level 4)

**3-085. Learning to Play: Identifying and Assessing Key Elements of Playful Learning**

9:55am-11:25am

Chair: *Brenna Hassinger-Das*

Discussant: *Deena Skolnick Weisberg*

- Playing for Words: Best Practices for Guided Play in Support of Vocabulary Development *Tamara Spiewak Toub, Brenna Hassinger-Das, Kimberly Turner Nesbitt, Burcu Unlutabak, Stephany A. Wilson, Ageliki Nicolopoulou, Molly Fuller Collins, Hande Ilgaz, Katherine Newman, Elizabeth Burke Hadley, Bretta L. Rivera, Kathryn A Hirsh-Pasek, Roberta M Golinkoff, David K Dickinson*

**(Event 3-094) Poster Session** Exhibit Hall A (Penn CC, 200 Level)

**3-094. Poster Session 11**

10:25am-11:40am

**Attention, Learning, Memory**

- 6 Guiding attention to children's graph comprehension *Lei Yuan, Steven Franconeri, David H Uttal*

**(Event 3-110) Paper Symposium** Room 201B (Penn CC, 200 Level)

**3-110. RCTs of Educational Programs in Pre-, Elementary, and Middle Schools: Explaining Variation in Treatment Effects across Sites**

12:00pm-1:30pm

Chair: *Maria D LaRusso*

Discussant: *J. Lawrence Aber*

- Three-Year Impacts of the 4Rs Program on student outcomes: Variation by implementation and teacher/student patterns of mobility *Stephanie M Jones, Joshua L Brown, J. Lawrence Aber*

**(Event 3-131) Paper Symposium** Franklin Hall 9 (Marriott, Level 4)

**3-131. The development of executive function and academic skills in the context of poverty: New perspectives on an old question**

12:00pm-1:30pm

Chairs: *Jennie K Grammer, Kelly M Purtell*

- Executive function and academic achievement: A focus on low-income English Language Learners and their English speaking peers *Guadalupe Diaz, Karley Lewis, Alicia Miao, Megan M McClelland*

**(Event 3-145) Poster Session** Exhibit Hall A (Penn CC, 200 Level)

**3-145. Poster Session 12**

12:30pm-1:45pm

**Education, Schooling**

- 32 Development of an Assessment to Examine Preschool Children's Data Analysis Skills *Tomoko Wakabayashi, Zongping Xiang*

- 80 Spatial Skills in Elementary School Predict Trajectory of Number Sense Development and Achievement *Martha M Carr, Natalia Aleexev, Erin Horan, Nicole BARNED, Lu Wang*

**82** Reducing Algebraic Misconceptions and Errors Through the Use of Correct and Incorrect Worked-Examples  
*Kelly McGinn, Julie L Booth, Christina Barbieri*

**201** Enduring Effects of Pre-K Mathematics Experiences on Executive Function and Mathematics Skills through Grade 1  
*Kimberly Turner Nesbitt, Dale C Farran*

**(Event 3-157) Poster Symposium** Room 107B (Penn CC, 100 Level)

**3-157. Innovations in Early Childhood STEM Curriculum and Professional Development**

1:55pm-3:25pm

Chair: *Kimberly Brenneman*

- A multiple-baseline study to test preschoolers' incremental science learning after teachers' participation in content-specific PD *Janna Kook, Jess Gropen, Cindy Hoisington, Jeff Winoker*
- Associations between teachers' use of PD supports and quality of classroom interactions *Jessica E Vick Whittaker, Mable Kinzie, Amanda P Williford, Jamie DeCoster*
- Longitudinal evaluation of a scale-up model for teaching mathematics with trajectories and technologies: Persistence of effects *Julie Sarama, Douglas H Clements, Carolyn Layzer, Fatih Unlu, Christopher B Wolfe, Mary Elaine Spitler*

**(Event 3-158) Paper Symposium** Room 201A (Penn CC, 200 Level)

**3-158. Socioeconomic Disparities in Cognitive Development in Infancy and Early Childhood**

1:55pm-3:25pm

Chairs: *Kimberly G Noble, Natalie Hiromi Brito*

- Development, Implementation, Assessment, and Expansion of an Intervention for Preschoolers from Lower SES Backgrounds *Courtney Stevens, Eric Pakulak, Theodore A Bell, Jessica Fanning, Scott Klein, Elif Isbell, Zayra Longoria, Amanda Hampton Wray, Christina Karns, Ryan Guiliano, Helen Neville*

**(Event 3-173) Paper Symposium** Franklin Hall 4 (Marriott, Level 4)

**3-173. It takes a village: Short & long-term effects of interventions to promote school readiness in children at-risk for school failure**

1:55pm-3:25pm

Chair: *Megan M McClelland*

Discussant: *Margaret O'Brien Caughy*

- Long-Term Effects of a Program to Improve Self-Regulation in Developmentally Disabled Children Entering School *Katherine C Pears, Hyoun Kim, Karen Yeorger*

**(Event 3-190) Poster Session** Exhibit Hall A (Penn CC, 200 Level)

**3-190. Poster Session 13**

2:25pm-3:40pm

**Cognitive Processes**

**36** The Impact of Classroom Instruction on Children's Strategic Understanding: The Role of Metacognition  
*Jennifer Lynne Coffman, Kesha Nicole Hudson, Taylor Evan Thomas, Jennie K Grammer, Peter A Ornstein*

**(Event 3-197) Paper Symposium** Room 103C (Penn CC, 100 Level)

**3-197. The Quality of Book Reading in Preschool**

3:50pm-5:20pm

Chair: *David K Dickinson*

- Effects of Scalable Teacher-Delivered Book Reading on Preschool Children's Vocabulary *Katherine Newman, David K Dickinson, Molly Fuller Collins, Elizabeth Burke Hadley, Kimberly Turner Nesbitt, Mae Pierce, Bretta L. Rivera, Hande Ilgaz, Brenna Hassinger-Das, Tamara Spiewak Toub, Jessica Eye, Ageliki Nicolopoulou, Roberta M Golinkoff, Kathryn A Hirsh-Pasek*