LSGS Conference 2017
Expanding Apprenticeship

A forum for emerging voices in the Learning Sciences to share and develop ideas.

October
19th & 20th
2017

Indiana University Bloomington

School of Education
201 N Rose Ave, Bloomington, IN 47405

Social Science Research Commons
1100 E 7th St, Bloomington, IN 47406

www.lsgsconference.com
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Schedule

Thursday, October 19th

2:00 PM Registration
Social Science Research Commons

4:00 PM Conference Kickoff
Welcome by Dr. Cindy Hmelo-Silver, Indiana University
Introduction by Dr. Daniel Hickey, Indiana University
Kickoff Lecture by Dr. Kylie Peppler, Indiana University
Social Science Research Commons

5:00 PM Poster Session & Reception
Social Science Research Commons

6:30 PM Dinner around Town with an Affinity Group

Friday, October 20th

9:00 AM Breakfast
School of Education Atrium Balcony

9:30 AM Roundtables
School of Education

11:15 AM Workshops
School of Education

12:15 PM Lunch with an Affinity Group
Tour of the Make, Innovate, Learn Lab (MILL)
School of Education

2:00 PM Keynote
Introduction by Dr. Daniel Hickey, Indiana University
Keynote by Dr. Susan Yoon, University of Pennsylvania
Social Science Research Commons

3:30 PM Faculty Panel
Dr. Paula Hooper, Northwestern University
Dr. Leilah Lyons, University of Illinois at Chicago
Dr. Rosemary Russ, University of Wisconsin-Madison
Dr. Tesha Sengupta-Irving, Vanderbilt University
Social Science Research Commons

5:00 PM Closing Words

7:00 PM Optional Dinner

Welcome

Dr. Cindy Hmelo-Silver
Barbara B. Jacobs Chair of Education and Technology &
Professor of Learning Sciences, Indiana University

Dr. Daniel Hickey
Program Coordinator & Professor of Learning Sciences,
Indiana University

Keynotes

Dr. Kylie Peppler
Associate Professor of Learning Sciences, Indiana University

Dr. Susan Yoon
Associate Professor of Teaching,
Learning, and Leadership, University of Pennsylvania

Panel

Dr. Paula Hooper
Assistant Professor of Instruction, Northwestern University

Dr. Leilah Lyons
Assistant Professor of Computer Science and Learning Sciences, University of Illinois at Chicago; Director of Digital Learning Research, New York Hall of Science

Dr. Rosemary Russ
Assistant Professor of Science Education, University of Wisconsin-Madison

Dr. Tesha Sengupta-Irving
Assistant Professor of Mathematics Education and Learning Sciences, Vanderbilt University

Posters

(1) Thinking about Race and Power in History: A Think Aloud Study

Allena Berry, Northwestern University

(2) Reexamining PSETs' Reluctance towards Science Education: Helping Students by Not Teaching Science

Jocelyn Nardo & Minjung Ryu, Purdue University

(3) Spatial Sewing: The Relationship Between Fashion Design and Three-Dimensional Spatial Rotation Skills

Sophia Bender & Kylie Peppler, Indiana University

(4) Positioning and Engagement of an Elementary Student in an Engineering Activity

Karen Miel, Tufts University

(5) Orchestration of Conversational Agent Support and Team Formation in a Group Learning Environment

Sreecharan Sankaranarayanan & Carolyn Rose, Carnegie Mellon University

(6) Teachers' Use of Learning Analytics Dashboards in Immersive Digital Learning Environments

Tiffany Herder, Zachari Swiecki, & David Williamson Schaffer, University of Wisconsin–Madison

(7) Pre-made vs. Freeform Annotation Tools: Benefits and Drawbacks of Constraining Students' Scientific Observations

Xintian Tu, Megan Humburg, Bria Davis, & Joshua Danish, Indiana Unversity

(8) Artifact Analysis in a Human-Centered Robotics Curriculum

Erin Tolar, Andrea Gomoll, & Benjamin Oistad, Indiana University

(9) Accessibility and Inclusivity in Making: Engaging Learners with All Abilities in Maker Activities

Jooyoung Seo, Penn State University

(10) Someone to Read with: Design of and Experiences with an In-Home Learning Companion Robot for Reading

Joseph Michaelis & Bilge Mutlu, University of Wisconsin–Madison

(11) Seeing Through the Chaos: Real-Time Observational Coding of Middle School Students' Engineering Design

Andrea Gomoll, Joey Huang, Erin Tolar, Charlie Mahoney, & Ben Oistad, Indiana University

(12) Understanding Teachers' Knowledge and Supporting Teachers' Learning about Science Practices

Nicole Martin & Sadhana Puntambekar, University of Wisconsin–Madison

(13) Tracing Middle School Students' Conceptions of Thermal Conduction from an Embodied and Complex Systems Perspective

Nitasha Mathayas, David Brown, & Robb Lindgren, University of Illinois at Urbana-Champaign

(14) "Making" a Difference: Project Based Approaches to STEM engagement in Middle School

Sherry Yi, Susan Kelly, & Emma Mercier, University of Illinois at Urbana-Champaign

(15) Promoting Cooperative Attitudes through Board Games

Yu-Chi Wang & Jenifer Doll, Purdue University

(16) Laughter as a Lens for Participation in After School Science Settings

Casey Wright & Minjung Ryu, Purdue University

(17) Finding Her Niche in Making, One Youth's Interest Development Over Multiple Years of Working in a Makerspace

Ryan Cain, Abigail L. Phillips, & Victor R. Lee, Utah State University

(18) Catching up for joining: Examining learning in a cycling community of practice

Joel R. Drake & Victor R. Lee, Utah State University

(19) Makerspace Analysis with Multimodal Learning Analytics

David Bar-El, Kit Martin, & Marcelo Worsley, Northwestern University

(20) Nature of Science Conceptions: A Longitudinal Comparison Between Grades Two and Twelve

Jessica McKeown, Indiana University Bloomington

(21) Identifying Recent Temporal Context in Discourse Data

Brendan Eagan, Amanda Siebert-Evenstone, & David Shaffer, University of Wisconsin-Madison

(22) Ensemble Performance as Expressive Mathematics

Lauren Vogelstein, Vanderbilt University

(23) Using Learning Analytics Dashboard to Support Facilitation: from Instructors Perspective

Yuxin Chen & Gurpreet Birk, Indiana University

(24) Gesture Production, Mathematical Learning, and a Motion-Capture Video Game

John McGinty & Mitchell Nathan, University of Wisconsin-Madison

(25) Black Girls Can Fly

Ginnie Logan, University of Colorado

Roundtables

Friday, October 21st – 9:30 AM
School of Education

Motivation, Identity, and Communities of Practice
Room 2140

"Ohhhhh, now I can do it!": Exploring Children's Persistence and Playful Engagement in a Mathematical Playground – *Lara Jasien & Ilana Horn, Vanderbilt University*

Learning and Identity in Critical Pedagogy: Understanding the Role of the Educator in Mediating Youth Learning and Development – *Ava Jackson, Northwestern University*

Viewing Interdisciplinarity through the Lens of Communities of Practice – *Meng Yang Matthew Wu & Minjung Ryu, Purdue University*

Becoming a Healthy Person: The Role of Personal Narrative in Learning within Community – *Robbin Riedy, University of Colorado*

Supporting Science Reasoning Across Representations and Embodied Simulations
Room 2277

Investigating how students learn by drawing visual representations – *Sally Wu & Martina Rau, University of Wisconsin-Madison*

Exploring embodied earthquakes: Examining the effect of an embodied science simulation on students' gestures and conceptual growth – *Sahar Alameh, Jason Morphew, & Robb Lindgren, University of Illinois at Urbana-Champaign*

Emergent Participant Structures During Group Use of Gesture Augmented Simulations – *Robert Wallon, University of Illinois at Urbana-Champaign*

Learning Progressions in Context: Tensions and Insights from a Middle School Science Curriculum Designed to Support Modeling Practices – *Ashlyn Karan, Vanderbilt University*

Computational Thinking and Learning in Computer Science Contexts
Room 2275

Retrospective on Group Work in Introductory Computer Science – *Alexander Brooks & Debra Deppeler, University of Wisconsin-Madison*

Learning to Transfer Computer Programming Semantics with English and Scratch – *Christina Zdawczyk, University of Minnesota*

Exploring Computational Thinking Practices of Expert and Novice Users through Analyses of Computer-Mediated Discourse in the Scratch Online Community – *Joey Huang, Indiana University*

Understanding Maker Practices and Identities
Room 2260 (MILL)

Mayhem and The Rockstar Dress – *Naomi Thompson, Indiana University*

A Research-Practice Partnership Around Making – *Emily Schindler, University of Wisconsin-Madison*

Making of a Maker – Connections and Community in Makerspaces – *Vishesh Kumar, University of Wisconsin-Madison*

Workshops

Building a 3D World
Room 2277
> *Kit Martin, Northwestern University*

Quantitative Ethnography in R: An Introduction to rhoR and R-ENA
Room 2140
> *Brendan Eagan, Zachari Swiecki, Amanda Siebert-Evenstone, Tiffany Herder, & David Williamson Shaffer, University of Wisconsin–Madison*

Communicating Your Research
Room 3017
> *LuEttaMae Lawrence, University of Urbana -Champaign*

Graduate Scholarship in the Learning Sciences in a New Era of U.S. Nationalism
Room 3275
> *Suraj Uttamchandani & Naomi Thompson, Indiana Univeristy*

Mentoring in Writing: Junior-Senior Partnerships for Developing Writing Skills
Room 2260 (MILL)
> *Catherine Dornfeld Tissenbaum & Joe Michaelis, University of Wisconsin-Madison*

Scholarly Writing in the Social Sciences
Room 2275
> *Kirstin Helström & Samantha Demmerle, Indiana University*

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Conference Committee

Amanda Bell, Vanderbilt University

Allena Berry, Northwestern University

Catherine Dornfeld Tissenbaum, University of Wisconsin-Madison

Chris Georgen, Indiana University

Tiffany Herder, University of Wisconsin-Madison

Rachel Holtz, University of Illinois at Chicago

Anna Keune, Indiana University

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Trey Smith, Northwestern University

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