SESP Scholars Discuss Equitable Education at AERA

More than 70 Northwestern University School of Education and Social Policy faculty members, graduate students, and alumni are participating in the American Educational Research Association’s 2022 annual meeting from April 21 to 26 in San Diego.

The largest annual gathering of education research scholars, this year’s meeting features both in person and livestreamed lectures. Organized around the theme “Cultivating Equitable Education Systems for the 21st Century,” the event showcases groundbreaking, innovative work in a wide range of subject areas.

Presidential Sessions featuring SESP researchers, students, and alumni:

Symposium
#TheMoreYouKnow: Critical Data Practices With New Digital Media and Technologies Toward Justice
Thursday, April 2, 6:15 to 7:45 p.m. CDT
Building and Sustaining Community Partnerships for Justice-Centered Computing Education
Authors: Sepehr Vakil, Alisa Reith, Natalie Araujo Melo, Christopher Spence

Round Table: Reimagining the Education Research Commons: Toward Epistemic Justice
Friday, April 22, 4:30 to 6 p.m.
Presenter: Shirin Vossoughi
Commons Vision 2
Author: Megan Bang

Invited Speaker Session
Friday, April 22, 4:30 to 6 p.m. CDT
Community Within: Activism and Community-Based Research as a Way of Life
Presenter: Nikki McDaid, graduate student

Invited Speaker Session: How Can the Science of Human Learning and Development Inform Preparing Students to Engage in Civic Reasoning?
Friday, April 22, 4:30 to 6 p.m. CDT
Chair: Carol Lee
Introduction to the Problem
Author: Carol Lee
Conceptual and Pedagogical Challenges of Teaching Civic Reasoning Across the Curriculum
Author: Carol Lee
Invited Speaker Session: Reimagining Methodological Approaches for Disrupting Anti-Blackness in STEM Education
Saturday, April 23, 10 to 11:30 a.m.
Discussant: Leslie Russell

The 25th Conversations With Senior Scholars on Advancing Research and Professional Development Related to Black Education
Saturday, April 23, 4:30 to 6 p.m. CTD
Table 4. Addressing and Advancing the Role of Culture in Educational Research
Author: Carol Lee

Speaker Session
Sunday, April 24, 10 to 11:30 a.m.
Measuring Equity: How Do We Measure Equity in Schools at Scale?
Panelist: Constance Lindsay (PhD10)

COVID-19 and Higher Education: Cultivating New Pathways to Higher Learning and Equity
Sunday, April 24, 4:30 to 6 p.m.
COVID-19 in California Community Colleges: College Responses, College Resources, and Student Outcomes
Author: Cassandra Hart (PhD11)

Speaker Session
Monday, April 25, 6:45 to 7:45 p.m.
Education’s Role in Cultivating Indigenous Futures
Moderator: Megan Bang
Speaker Session

Speaker Session
Tuesday, April 26, 1:30 to 3 p.m. CDT
Technology for Learning: Advancing Equity or Maintaining the Status Quo?
Chair: Sepehr Vakil
Panelist: Nichole Pinkard

All Sessions

Wednesday, April 20, 2022

Queer Studies
Wednesday, April 20, 4 to 6 p.m.
SIG Graduate Student Pre-Conference
Chair: Addie Shrodes

Thursday, April 21, 2022
Moving Making to Online and Homes Spaces: Lessons for Maker Education
Thursday, April 21, 10 to 11:30 a.m.
Focusing on Community for Black and Latina Girls While Making at Home
Authors: Naomi Thompson, Miranda Standberry-Wallace, Shai Moore, Evelyn Flores, Bo Ju, Nichole Pinkard, Denise Nacu, Sheena Erete

Roundtable: Transforming STEM Systems Toward Equality
Thursday, April 21, 1:30 to 3 p.m. CDT
Change Mapping of Models to Diversify STEM Faculty in Higher Education
Authors: Jue Wu, (PhD21) Sarah Chobot Hokanson, Bennett Goldberg, Krzysztof Karbownik, Emory University

Roundtable Session: Transforming STEM Systems Toward Equity
April 21, 1:30 to 3 p.m. CDT
Unraveling Collective Change in STEM Education Reform: The Importance of Collaborative Dynamics
Author: Diane Coddng

Educating Techno-Skeptics: Critical Approaches to Educational Technology in a Dystopian World
Thursday, April 21, 1:30 to 3 p.m.
"In That System, We All Look Like Thieves": Developing Young People's Critical Digital Citizenship
Authors: Charles Logan, Sepehr Vakil

Computational Thinking and the Learner and Educator Experience (poster session)
Thursday, April 21, 1:30 to 3 p.m.
Student Perceptions of Computational Thinking Practices in a CT-Integrated Environmental Science Unit
Authors: Lexie Zhao, Amanda Peel, Uri Wilensky, Michael Horn

Roundtable Session 3
Thursday, April 21, 1:30 to 3 p.m. CDT
Queer Social Change: Transformative Actions and Games for Social Change
Chair: Addie Shrodes

Equity in Elementary Science Teaching and Learning (Poster Session)
Thursday, April 21 1:30 to 3 p.m. CDT
Affordances and Constraints of Using Sense-Making Moments/Episodes for Fostering Equitable Disciplinary Responsiveness in Science Teaching
Authors: Christa Haverly

Equity in Elementary Science Teaching and Learning (Poster Session)
Thursday April 21 1:30 to 3 p.m. CDT
Shifting the Equity Conversation Toward Classroom Relationships: Lessons Learned From a Qualitative Case Study
Author: Christa Haverly
AERA Early Career Award (2021) Lecture: Huriya Jabbar
Invited Speaker Session
Thu, April 21, 3:15 to 4:15 p.m. CDT
Chair: James Spillane

SIG-Science Teaching and Learning
Thursday, April 21, 4:30 to 6 p.m.
Equitable Change in Science Education
Chair: Christa Haverly

Understanding How Organizational Systems Shape Student Equity and Teacher Agency
Thursday, 4:30 to 6 p.m. CDT
Searching for Equity in the System Reforms Literature
Author: Angel Bohannon

Conceptualizing and Enacting Equity-Focused STEM Instruction
Thursday, April 21, 4:30 to 6 p.m.
Conceptualizing and Operationalizing Equity Focus in Designing Computational Thinking—Integrated Science and Mathematics Curricula
Authors: Marissa Levy, Sugat Dabholkar (PhD21), Lexie Zhao, Susan Juhl (ETHS), Lauren Levites, Jacob Mills (ETHS), Amanda Peel, Sally Wu, Michael Horn

Invited Speaker Session
Thursday, April 21, 4:30 to 6 p.m. CDT
Education Leadership in Times of Change
Discussant: James Spillane

Stronger Together: Partnerships for Educational Leadership Preparation
Thursday, April 21, 4:30 to 6 p.m. CDT
The Demands of Equity-Centered Principal Pipelines and the Role for Research-Practice Partnerships
Author: Riley Ceperich

From Research to Practice
Thursday, April 21, 6:15 to 7:45 p.m.
Special Olympics Unified Champion Schools Program and Student Academic and Behavioral Outcomes
Author: Michelle Yin

Roundtable Session: White Teachers Learning About Equity and Antiracist Practice
Thursday, April 21 6:15 to 7:45 CDT
Leveraging Vulnerability to Redress White Fragility and Promote Antiracist Praxis in White Antiracist Affinity Groups
Author: Diane Codding

Division H Graduate Student Poster Session
Thursday, April 21, 6:15 to 7:45 p.m. CDT
Rating the Ratings: A Framework for Understanding and Evaluating Differences Among Accountability Systems
Author: Ayah Kamel

Critical Literacies: Investigating Textual Linguistic Representations to Engage Productive Identity Wrestling and Civic Reasoning
Thursday, April 21, 6:15 to 7:45 p.m. CDT
Literary Critical Literacies: Scaffolding Identity Wrestling/Civic Reasoning With Sense-Making in the Disciplines Digital Tool
Author: Carol Lee

Presidential Session
#TheMoreYouKnow: Critical Data Practices With New Digital Media and Technologies Toward Justice
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Authors: Sepehr Vakil, Alisa Reith, Natalie Araujo Melo, Christopher Spence

Friday, April 22

Redefining Care in a Global Pandemic
Friday, April 22, 8 to 9:30 a.m.
Learning in Places: An Analysis of Young Children's Complex Socio-Ecological Reasoning (Poster Session)
Authors: Megan Bang, Carrie Tzou (PhD08)

Cultural-Historical Research
Friday, April 22, 10 to 11:30 a.m.
The Struggle Against Oppression and Racial Injustice in Education
Chair: Addie Shrodes Authors: Aireale Joi Rodgers (BS11, MA18) University of Southern California; Kalonji Nzinga (PhD18), University of Colorado-Boulder (discussant)

Roundtable: Advancing Educational Change at the State and Local Levels
Friday, April 22, 10 to 11:30 a.m.
For States, by States: Examining State-Level Approaches for Advancing Ambitious Elementary Science Education
Authors: Christa Haverly, James Spillane

AERA Sessions
Friday, April 22, 1:30 to 3 p.m.
The Future of Education Research at the Institute of Education Sciences: A Community Dialogue and Reflection
Panelist: Cynthia Coburn

Affirmative Development: Civic Engagement Ontologies of Hope and Action
Friday, April 22, 1:30 to 3 p.m. CDT
Affirmative Development: Civic Engagement
Author: Carol Lee

Examining Intergenerational Cultures of Collaboration, Resistance, and Social Dreaming in Multimedia Learning Environments
Friday, April 22, 1:30 to 3 p.m.
Youth as Philosophers of Technology
Author: Sepehr Vakil

Examining Intergenerational Cultures of Collaboration, Resistance, and Social Dreaming in Multimedia Learning Environments
Friday, April 22, 1:30 to 3 p.m.
Reimagining the Feedback Relation: Humanizing Student-Teacher and Research Participant–Researcher Feedback Cycles
Authors: Kalonji Nzinga, University of Colorado -Boulder (PhD18), Shirin Vossoughi, Allena Berry (PhD21), University School of Nashville

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Round Table: Reimagining the Education Research Commons: Toward Epistemic Justice
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How Can the Science of Human Learning and Development Inform Preparing Students to Engage in Civic Reasoning?
Friday, April 22, 4:30 to 6 p.m. CDT
Chair: Carol Lee
Introduction to the Problem
Author: Carol Lee
Conceptual and Pedagogical Challenges of Teaching Civic Reasoning Across the Curriculum
Author: Carol Lee

Digital Literacy For Equitable Aims
Friday, April 22, 4:30 to 6 p.m.
From "Aspiration Zones" to "Meme Venting": Trans Teens Narrate Humor in Survival-Rich Digital Literacies
Chair and author: Addie Shrodes

Eye-Tracking Research on Teacher Noticing
Friday, April 22, 4:30 to 6 p.m. CDT
Expanding on Prior Conceptualizations of Teacher Noticing
Author **Miriam Sherin, Elizabeth van Es** (PhD04), University of California-Irvine

**AERA Poster Session 5**
Friday, April 22 4:30 to 6 p.m.
Scaffolding Secondary Students’ Natural Selection Transfer Through Computational Thinking
Author: **Amanda Peel**

**Reconceptualizing Designerly Thinking and Participatory Design With Students, Teachers, Administrators and Community Members**
Friday, April 22, 6:15 to 7:45 p.m. CDT
Coaching Strategies to Support Teacher Iterative Practices When Redesigning Lessons
Authors: **Daniel Rees Lewis** (PhD18), **Matt Easterday**, Christopher Riesbeck

Saturday, April 23

**Examining School Choice Using Varied Methods and Theories**
Saturday, April 23, 10 to 11:30 a.m. CDT
Competitive Effects of Charter Schools
Authors: **David Figlio, Cassandra Hart** (PhD11)

**Interaction as a Site for Ideological Negotiation and Transformation in Science Teachers’ Learning**
Saturday, April 23, 10 to 11:30 a.m. CDT
Science Teachers Making Sense of Ideological Dimensions of Disciplinary Knowledge Production
Author: **Alejandra Frausto**

**Rethinking “Learning Loss”: Family, Community, and Educator Perspectives on Equity and Learning During COVID-19**
Saturday, April 23, 10 to 11:30 a.m. CDT
From Schooling as Learning to Cultivating Systems of Relational Thriving
Author: **Shirin Vossoughi**

**Critical and Cultural Approaches Investigating Science Learning**
Saturday, April 23, 1:30 to 3 p.m.
Engaging Cultural and Sociopolitical Perspectives in Responsive Science Teaching
Authors: **Jennifer Richards**

**System Building to Improve Access, Quality, and Equity in Elementary Science**
Saturday, April 23, 1:30 to 3 p.m.
System-Building in Suburban School District
Author: **Christa Haverly**

**System-Building to Improve Access, Quality, and Equity in Elementary Science**
Saturday, April 23, 1:30 to 3 p.m.
Challenges and Dilemmas in System-Building for Elementary Science
Author: **James Spillane**
Innovations in Coaching and Mentoring
Saturday, April 23, 1:30 to 3 p.m.
Mentor Teachers' Perspectives on the Practice of Mentoring
Author: Kavita Kapadia Matsko

Science Teaching and Assessment in the Next Generation Science Standards Era
Saturday, April 23, 4:30 to 6 p.m.
A Responsive Co-Design Process for Three-Dimensional Performance Assessments
Jennifer Richards

The 25th Conversations with Senior Scholars on Advancing Research and Professional Development Related to Black Education
Saturday, April 23, 4:30 to 6 p.m. CDT
Addressing and Advancing the Role of Culture in Educational Research
Author: Carol Lee

Expansive Futures for Disability Intersectional Learning Research Braiding Culture, History, Equity, and Enabling Technologies
Saturday, April 23, 4:30 to 6 p.m. CDT
Historical Epistemologies
Author: Shirin Vossoughi

Centering Equity and Practice Considerations in Improvement Scholarship
Saturday, April 23, 4:30 to 6 p.m. CDT
Conceptualizing Power in the Practice of Continuous Improvement
Author: Angel Bohannon

Roundtable Session: Disrupting Norms in Teaching and Doing Qualitative Research
Saturday, April 23, 4:30 to 6 p.m. CDT
Conjecture Mapping: An Approach to Conducting Design-Based Research With Embedded Co-Design Cycles
Authors: Amanda Peel, Jacob Kelter, Lexie Zhao, Michael Horn, Uri Wilensky

School Disciplines. Hard Truths: Continuing the Conversation About the Disproportionate Impact of Discipline Practices
Saturday, April 23, 4:30 to 6 p.m.
The Effect of Schools on Bullying Behavior: A Value-Added Approach
Author: Sebastián Kiguel

Roundtable: On Storying Equitable Literacies Education
Saturday, April 23, 4:30 to 6 p.m.
Rewriting the Popular Discourse on Food: Multimodal and Multilingual Facebook Posts of Indigenous Youth in India
Author: Gautam Singh Bisht

Sunday, April 24
History and Historiography
Presidential Session
Measuring Equity: How Do We Measure Equity in Schools at Scale?
Sunday, April 24, 10 to 11:30 a.m.
Panelist: Constance Lindsay (PhD10)

Reimagining Teachers as Critical Mediators and Theorists of Learning Within Complex Political and Ethical Ecologies
Sunday, April 24, 11:45 a.m. to 1:15 p.m.
Chair: Shirin Vossoughi
Collaborative Research and Joint Activity Within Making Settings as an Expansive Context for Teacher Learning
Authors: Shirin Vossoughi, Arturo Alonso Munoz, Paula Hooper

Reimagining Teachers as Critical Mediators and Theorists of Learning Within Complex Political and Ethical Ecologies
Sunday, April 24, 11:45 a.m. to 1:15 p.m.
Designing for Epistemic Heterogeneity and Communal Autonomy: Toward the Political and Ethical in Teacher Learning
Authors: Natalie Davis (former postdoc research fellow at SESP), Georgia State University, Paula Hooper

Inclusion in Computer Science Education
Sunday, April 24, 10 to 11:30 a.m.
Exploring Expansive Learning at the Intersections of Sports, Technology, and Race
Authors: Stephanie Jones, Marcelo Worsley, Jacoya Thompson

AERA Distinguished Lecture
Sunday, April 24, 3:15 to 4:15 p.m. (CDT)
Contestations Over What We Should Teach: A Human Learning and Development Analysis
Speaker: Carol Lee

Humanizing Research Labs: How Faculty Use Their Labs to Dismantle, Redesign, and Reconstruct Oppressive Systems
Sunday, April 24, 4:30 to 6 p.m. CDT
A Dialogue on Humanizing Research Labs Across Graduate Students and Faculty
Authors: Ruben Echevarria (PhD21), Ava Jackson (PhD21), Paula Hooper, Shirin Vossoughi

Roundtable Session 13
Sunday, April 24, 4:30 to 6 p.m. CDT
Theories of Media, Culture, and Learning: Past, Current, and Future Directions
Chair: Addie Shrodes
COVID-19 and Higher Education: Cultivating New Pathways to Higher Learning and Equity
Sunday, April 24, 4:30 to 6 p.m.
COVID-19 in California Community Colleges: College Responses, College Resources, and Student Outcomes
Author: Cassandra Hart (PhD11)

Invited Speaker Session
Sunday, April 24, 6:15 to 7:45 p.m.
A Vision and Roadmap for Education Statistics – A Report from the National Academies of Science, Engineering, and Medicine
Speaker: Larry Hedges

Poster Session: Motivation and Cognition Processes in Classrooms
Sunday, April 24, 6:15 to 7:45 p.m.
Discourse Factors Underlying Problematic Learning for Individuals in Collaborative Contexts
Author: David Rapp

Monday, April 25

Graduate Student Council: Invited Speaker Session
Monday, April 25, 10 to 11:30 a.m. CDT
Graduate Student Council Session. Writing in Relation: Collaborative Writing as Community-Based Epistemologies
Panelist: Julissa Muñiz (PhD22), University of Texas, Austin

SIG Out of School Time
Monday, April 25, 10 to 11:30 a.m. CDT
Out-of-School-Time Youth Arts Programs: What Are the Big Juicy Questions?
Discussants: Megan Bang, Nichole Pinkard, Shirin Vossoughi

(Re)Thinking Discursive Practices to Center Disability
Mon, April 25, 10 to 11:30 a.m. CDT
Toward Crip Ways of Narrating Desired Futures
Author: Addie Shrodes

Building and Sustaining Community
Poster Session: Computational Thinking and the Learner and Educator Experience
Monday, April 25, 11:45 a.m. to 1:15 p.m. CDT
Through Their Eyes: Considering Students' Interests, Choices, and Experiences in the Design and Analysis of Inclusive STEAM Learning Environments
Authors: Kay Ramey, Reed Stevens

Liberatory Praxis Through Indigenous Epistemologies, Reconciliation, and Resurgence
Monday, April 25 1:30 to 3 p.m.
Beginning With Our Original Teachings: Launching Activities With Indigenous Axio-Onto-
Epistemologies to Create Conditions for Thriving
Authors: Krystal Villanosa, Megan Bang, Nikki McDaid, and Forrest Bruce

Creating Digital Counter-Spaces
Monday, April 25, 1:30 to 3 p.m.
"Google Got Yo Life": Opening Portals for Ethical Sense-Making With Relational Design
Authors: Natalie Araujo Melo, Alisa Reith, Sarah Van Wart, Sepehr Vakil

What We Read and How to Understand
Mon, April 25, 4:30 to 6 p.m. CDT
Interest Versus Accuracy: Reducing the Deleterious Effects of Reading Inaccurate Information
Authors: Nikita Salovich, David Rapp

Invited Speaker Session
Monday, April 25 4:30 to 6 p.m. CDT
20 Years of Activity Theory in Teacher Education Research: Major Contributions and Future Perspectives
Speaker: Carol Lee

Informal Learning Environments Research SIG Poster Session
Monday, April 25, 4:30 to 6 p.m.
Understanding Tabletop Territories in Tangible and Screen-Based Game Play
Authors: Ayse Hunt, Mmachi Obiorah of the University of Richmond, Michael Horn

Methods for Causal Inference and Estimation of Treatment Effects
Monday, April 25, 6:25 to 7:45 p.m.
Rate Ratio in Multiple Baseline Designs Using Hierarchical Poisson Regression Models
Author: Larry Hedges

Learning and Instruction
Monday, April 25, 6:15 to 7:45 p.m. CDT
Computational Analyses of STEM+C Learning
Chair and Discussant: Kit Martin

Roundtable: Best Practices for Transitioning Traditional Face-to Face Professional Development to Virtual Collaborative Spaces
Monday, April 25, 4:30 to 6 p.m.
A Virtual Professional Development Program for Computational Thinking During COVID-19
Author: Diane Codding

Public Education in an Era for Racial Justice
Monday, April 25, 1:30 to 3 p.m. CDT
Teaching Reparations: Reflecting on Mandated Curriculum on Police Torture and the Fight for Justice
Author: Jessica Marshall
Presidential Session
Monday, April 25, 6:15 to 7:45 p.m. CDT
Education's Role in Cultivating Indigenous Futures
Moderator: Megan Bang

Tue, April 26

Reimagining Equitable Education Through Cross-Cultural Conversation: Toward an Equitable New Normal in the Era of Post-Pandemic
Tuesday, April 26, 11:45 a.m. to 1:15 p.m.
The African Diaspora's Links to Inquiry on Human Learning and Development: Implications for Post-Pandemic Education
Author: Carol Lee

Presidential Session
Tuesday, April 26, 1:30 to 3 p.m.
Technology for Learning: Advancing Equity or Maintaining the Status Quo?
Chair: Sepehr Vakil
Panelist: Nichole Pinkard

Lessons Learned from Edmund W. Gordon at 100
Tuesday, April 26, 1:30 to 3 p.m.
Toward Rights-based and Equity-Centered Pedagogy, Assessment and Policy
Author: Carol Lee

Symposium
Tuesday, April 26, 4:30 to 6 p.m.
Enactment of Performance-Based Accountability in Education: Implications for Stakeholders
Author: James Spillane

Social Contexts of Education
Negotiating and Constructing Identities Across Learning Contexts
Tuesday, April 26, 4:30 to 6 p.m.
Discussant: Addie Shrodes