

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 Coddling**

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 Coddling**

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

Thursday, April 21, 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

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

Presidential Session

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**

Presidential Session

Community Within: Activism and Community-Based Research as a Way of Life

Friday, April 22, 4:30 to 6 p.m. CDT

Presenter: **Nikki McDaid**

Presidential 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**

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. CDT

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

Author: **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

Sunday, April 24, 10 to 11:30 a.m. CDT
Digital Methods in the Humanities: Challenges and Opportunities
Speaker: **Mila Kaut**

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 Withing 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 Coddling**

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**