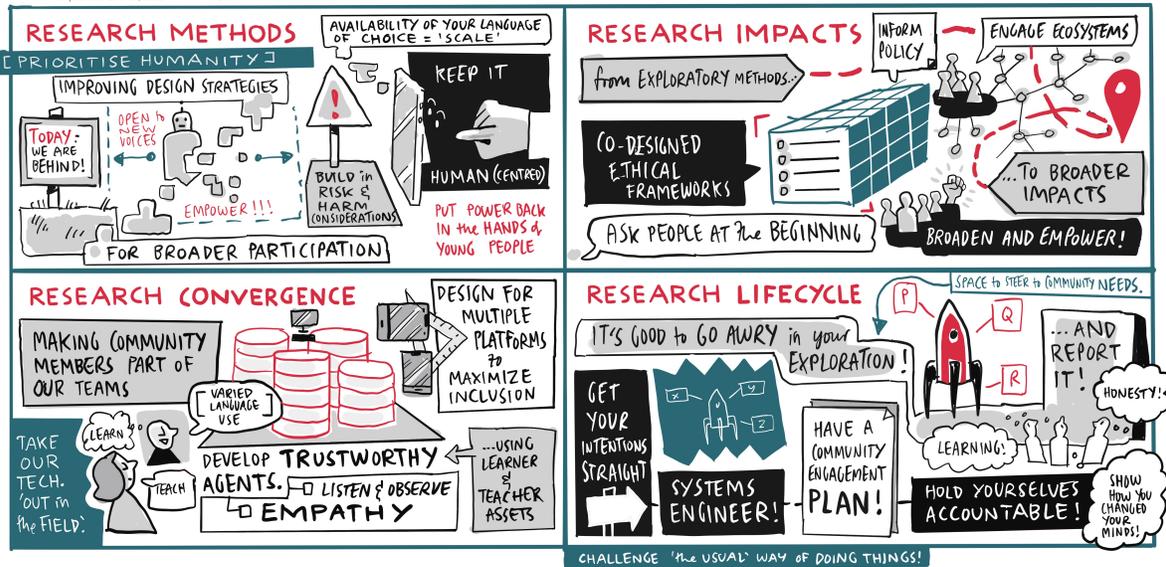




Thanks so much to all of those who joined us at CIRCLS'21! The graphic illustrations from the convening tell the story of a remarkably powerful and productive meeting. You can feel the energy in the graphic illustration of [Dr. Nicki Washington's keynote](#) on the conference theme of "Remake Broadening."



[Dr. Craig Watkins's keynote](#) moved us from "why" to "how" (and we also have a graphic illustration of his talk). Then conference participants joined one of eleven strategy sessions to generate concrete actions that would enable this community to "remake broadening." If you weren't able to join us for the closing town hall, check out the [video](#) of the remarkable session in which a graphic illustrator drew the meeting outcome in real time, as facilitators reported out from the working sessions.



Couldn't attend? CIRCLS has your back. We've compiled highlights you can watch and read. See links on our [website](#), including posters and demos from our [Gallery Walk](#).

What's next? The CIRCLS team plans to launch working groups, inviting you to continue to develop specific guidelines to help this RETTL and cyberlearning community to advance its capability to “remake broadening” for a bold future of learning with technology.

We also wanted to **congratulate Dr. Safiya Noble**, keynote speaker from Cyberlearning'19, on being a recipient of a [2021 MacArthur Fellowship](#). Check out her [keynote](#) to learn more about her important work on how digital technologies and algorithms can reinforce racism and oppression.

CIRCLS Perspective



[Sarah Costello](#) is the Director of Educational Technology at the Julia Morgan School for Girls. Her educational philosophy centers the child and focuses on their role in the future. Sarah worked with the Center for Innovative Research in Cyberlearning in 2014 and 2016, and has been part of CIRCL Educators and now Educator CIRCLS ever since. In addition, she has worked with researchers on several projects and sees them as incredible opportunities for herself, the researchers, and her students. To find out more about her work, her perspective, and what she values as part of the CIRCLS community, check out her [CIRCLS Perspective](#).

Expertise Exchanges

AI CIRCLS

CIRCLS is making plans for our next AI CIRCLS Working Group! AI CIRCLS convenes for 3-4 months at a time and works towards actionable steps related to a given theme that connects AI, Education, and other topics. Our first AI CIRCLS group on [AI and Education Policy](#) wrapped up

this summer, producing a synthesis of key challenges to address, an AI & Ed Policy Reading List, and three policy documents: (1) an [AI in EdTech Vendor Pledge](#), (2) a [Policy Brief on Federal Guidelines for AI in EdTech](#), and (3) [Policy Recommendations on Integrating AI into Classroom Practices](#). Group members presented these initiatives at the CIRCLS '21 convening and facilitated a strategy session for attendees to discuss future policy needs. We'll be announcing our next AI CIRCLS in the coming months and encourage you to [fill out our interest form](#) to receive information and suggest topics you're interested in discussing.

Emerging Scholar CIRCLS



Our Featured Emerging Scholar is Dr. Jewoong Moon, an Assistant Professor of Instructional Technology at the University of Alabama. He is a recent graduate of Florida State University, where he earned his Ph.D. in Instructional Systems and Learning Technologies. His research focuses on immersive and inclusive e-learning design under data-driven adaptive systems to support underrepresented students with disabilities. To learn more about Jewoong and his work, please read [All Students Playfully Learn Together](#).

Educator CIRCLS

It was great to see our Educator CIRCLS community members sign up for and participate in the CIRCLS'21 convening! We want to hear about what you learned, what stood out to you, and what we focus on next. Join us and keep the conversation going by [attending](#) our planned debrief on Thursday, October 21 from 2-3 pm ET/11-12 pm PT. Also, check out the recent [School Policies for Integrating AI in Classroom Practices](#) written by a cross-section of CIRCLS members, including members of Educator CIRCLS in collaboration with the AI and Education Policy group and send us your feedback and questions.

If you are interested in joining any of our Expertise Exchanges, [please fill out this form](#).

New Awards

Congratulations to the newest cohort of RETTL (formerly Cyberlearning) award recipients. Welcome to the CIRCLS community!

Recent NSF awards:

- [EAGER: Technology to Review Online Videos for Education \(TROVE\)](#). PI: Claire Christensen, SRI International. CoPIs: Anirban Roy
- [EAGER: Collaborative Research: Second Language Speech Production: Formulation of Objective Speech Intelligibility Measures and Learner-Specific Feedback](#). PI: John H. L. Hansen, University of Texas at Dallas.
- [EAGER: Collaborative Research: Production of Second Language Speech: Formulation of Objective Speech Intelligibility Measures and Learner-specific Feedback](#). PI: Okim Kang, Northern Arizona University.
- [New Dimensions of ASL Learning: Implementing and Testing Signing Avatars & Immersive Learning \(SAIL 2\)](#). PI: Lorna Quandt, Gallaudet University. CoPIs: Melissa Malzkuhn

- [CAREER: Developing New Scientific Instruments for Classroom Observation: A Multi-modal Machine Learning Approach](#). PI: Jacob Whitehill, Worcester Polytechnic Institute.
- [Enhancing flexible STEM thinking by generating interactive diagrams at scale](#). PI: Joshua Sunshine, Carnegie-Mellon University. CoPIs: Keenan Crane, Ken Koedinger
- [Bimodal Haptic-Mixed Reality \(HMR\) Needle Insertion Simulation for Hand-Eye Skills](#). PI: Kwangtaek Kim, Kent State University. CoPIs: Robert Clements, Jeremy Jarzembak
- [Collaborative Research: Advancing STEM Online Learning by Augmenting Accessibility with Explanatory Captions and AI](#). PI: Qi Wang, Gallaudet University.
- [Collaborative Research: Advancing STEM Online Learning by Augmenting Accessibility with Explanatory Captions and AI](#). PI: Yun Huang, University of Illinois at Urbana-Champaign. CoPIs: Lawrence Angrave
- [Collaborative Research: Advancing STEM Online Learning by Augmenting Accessibility with Explanatory Captions and AI](#). PI: Meng Jiang, University of Notre Dame.
- [Productive Online Teamwork Engagement Through Intelligent Mediation](#). PI: Alejandra Magana-de-Leon, Purdue University. CoPIs: Dominic Kao, Bedrich Benes, Jennifer Richardson
- [Exploring Artificial Intelligence-enhanced Electronic Design Process Logs: Empowering High School Engineering Teachers](#). PI: Mark Riedl, Georgia Tech Research Corporation. CoPIs: Jeff Rosen, Meltem Alemdar, Roxanne Moore
- [Supporting Computational Literacy by Designing a Collaborative Platform at the Intersection of Music and Code](#). PI: Michael Horn, Northwestern University. CoPIs: Michael Zang, Andrea Hillsamer
- [Collaborative Research: Common Error Diagnostics and Support in Short-answer Math Questions](#). PI: Shiting Lan, University of Massachusetts Amherst.
- [Inclusively-designing sensory extensions for STEM inquiry learning](#). PI: Emily Moore, University of Colorado at Boulder. CoPIs: Ann Eisenberg
- [The Role of Agency and Interactivity in Embodied Conversational Agents to Support Teacher Training in High Poverty Schools](#). PI: Mubbasir Kapadia, Rutgers University New Brunswick. CoPIs: Matthew Stone, Elisa Shernoff
- [Supporting collaborative reflection by K-12 teachers with analytics from intelligent tutoring software](#). PI: Vincent Alevan, Carnegie-Mellon University.
- [Supporting Designers in Learning to Co-create with AI for Complex Computational Design Tasks](#). PI: Nikolas Martelaro, Carnegie-Mellon University. CoPIs: Lining Yao, Kenneth Holstein
- [RETTL: Facilitating socially constructed learning through a shared, mobile-based virtual reality platform in informal learning settings](#). PI: Sang Won Lee, Virginia Polytechnic Institute and State University. CoPIs: Jeffrey Ogle, Chelsea Lyles, Phyllis Newbill, Myounghoon Jeon
- [Improving Student Learning While Decreasing Bias in Teaching Through Simulation](#). PI: Rhonda Christensen, University of North Texas. CoPIs: Gerald Knezek

Opportunities

Don't forget that RETTL proposals are due **October 18, 2021**. Review our [proposal guidelines page](#) for more information and resources.

- **Solicitation:** [NSF Research Experiences for Teachers \(RET\) in Engineering and Computer Science Program Solicitation](#): The Research Experiences for Teachers (RET) in Engineering and Computer Science program supports authentic summer research experiences for K-14 educators to foster long-term collaborations between universities, community colleges, school districts, and industry partners. With this solicitation, the Directorates for Engineering (ENG) and Computer and Information Science and Engineering (CISE) focus on a reciprocal exchange of expertise between K-14 educators and research faculty and (when applicable) industry mentors. Full proposals are due **November 16, 2021** by 5 p.m. submitter's local time. [Read more](#)
- **Solicitation:** [Advancing Informal STEM Learning \(AISL\)](#): The Advancing Informal STEM Learning (AISL) program seeks to advance new approaches to and evidence-based understanding of the design and development of STEM learning opportunities for the public in informal environments; provide multiple pathways for broadening access to and engagement in STEM learning experiences; advance innovative research on and assessment of STEM learning in informal environments; and engage the public of all ages in learning STEM in informal environments. Full proposals are due January 18, 2022 by 5 p.m. submitter's local time. [Read more](#)
- **Job Opportunity:** [Postdoctoral Scholar at the University of Michigan School of Information and School of Education](#): The University of Michigan School of Information and School of Education seeks to hire a postdoctoral scholar as part of a multi-institutional team (U-M, Northwestern University School of Education and Social Policy, University of Washington College of Education) conducting research to develop a new mastery-based transcript for use by youth and informal out-of-school time learning providers to expand pathways for young people to access college and other STEM opportunities. Review and selection process to begin by **October 11, 2021**. [Read more](#)
- **Job Opportunity:** [Research Associate at the University of Delaware and the Delaware Department of Education](#): The University of Delaware is looking for a Research Associate to work on an NSF-funded Research-Practice-Partnership (CS4All). This project is a partnership between the University of Delaware (UD) and the Delaware Department of Education (DDOE) to build sustainable capacity towards the implementation of computer science standards in grades 3-5. Applications open until filled. [Read more](#)
- **Job Opportunity:** [Postdoctoral Scholar at the University of Washington Bothell](#): The University of Washington Bothell is seeking a Postdoctoral Scholar. This full-time postdoctoral scholar position is for a newly funded project with the National Science Foundation to design and study the development of undergraduate-level, equity-focused science content courses for aspiring and practicing elementary science teachers. The project is titled: Improving the STEM preparation of K-5 preservice teachers through a project-based, interdisciplinary approach. This position will be housed within the Goodlad Institute for Educational Renewal within UWB's School of Educational Studies. The position is open until filled, with priority given to applications received on or before 5pm PST **October 29, 2021**. [Read more](#)
- **Job Opportunity:** [Assistant or Associate Professor of Math Education at California State University, Dominguez Hills](#): The Department of Teacher Education at California State University, Dominguez Hills (CSUDH) invites applications for a Tenure-track position at the rank of Assistant or Associate Professor (Academic Year) with the appointment starting in Fall 2022. The ideal candidate will have a demonstrated history of successful teaching

and research in the areas of Math Education with a critical pedagogy, intersectional, and justice perspective. The position is open until filled. Review of applications will begin in **November 2021**. [Read more](#)

Stay tuned and be on the lookout for the most up-to-date opportunities on our [website](#) and [Twitter](#)

Have some news or resources that you want to share with the community?
Contact CIRCLS

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