



# CIRCLS

Center for Integrative Research in  
Computing and Learning Sciences

**We invite you to co-create our next Community Report!** To keep funding flowing to RETTL and related programs, the National Science Foundation (NSF) needs summaries of the designs, insights, and findings that are emerging. The community report provides authors with citable dissemination for their projects and raises the visibility of editors as important community members. And it helps us all see ourselves as part of something bigger. Building on a key theme that arose during the [CIRCLS'21 convening](#), this report will focus on *“how partnerships design and conduct exploratory research about innovative emerging technologies for teaching and learning that empower diverse learners, teachers, and other constituents.”* We are looking to recruit editors and contributing authors for the report. [Read the full call for participation](#) to learn more.

Speaking of funding, U.S. President Biden’s request for the next annual NSF budget asks to change the name of the NSF EHR Directorate to “STEM Education” and requests \$1.3 billion for this directorate, a \$371 million increase compared to FY 2022. Advancing education technology and AI Institutes are both called out as priorities. On the U.S. Department of Education side, the President requests a half-billion dollars for the Education Innovation and Research program. It is indeed an important time to show that our collective work has value.

## CIRCLS Perspective



[Ryan Baker](#) is a tenured Associate Professor in the Graduate School of Education at the University of Pennsylvania. His research interests include learning analytics, engagement, and knowledge modeling. Find out more about his work and how his research group blends data science and qualitative research by reading his [CIRCLS Perspective](#).

## Expertise Exchanges

### [AI CIRCLS](#)

The CIRCLS team is excited to be organizing a pre-conference workshop at ISLS 2022 on

the topic of artificial intelligence (AI) and education policy. Our objective is to engage and prepare learning scientists as participants in future national, regional, and international discussions about AI and the future of learning. [Learn more and apply](#) (must be registered for ISLS to attend).

In other news, we recently wrapped up our [community partnership discussion series](#) and encourage you to check our web page frequently for upcoming resources. We are also looking forward to kicking off our [project incubator on AI and literacy](#) with 20 incredible participants from academia, K-12 education, and industry.

### **[Emerging Scholar CIRCLS](#)**

On April 27, 2022, the Emerging Scholar CIRCLS held a professional development panel titled "Exploring Career Options: Postdoctoral Research Positions." The three panelists were [Angela Stewart](#), Postdoctoral Research Fellow, Human-Computer Interaction Institute, Carnegie Mellon University; [Dalila Draganić-Cindrić](#), Postdoctoral Researcher, Digital Promise; and [Lorna Quandt](#), Assistant Professor, Gallaudet University. The panelists and the attendees engaged in a candid conversation about how to find, apply for, and be successful in postdoctoral positions. If you are interested in attending future Emerging Scholar CIRCLS sessions, please join our community using this [interest form](#). Our Emerging Scholar CIRCLS program and its mentoring series are highlighted in the latest Digital Promise blog post. Read "[Want to Shape the Future? Support Emerging Scholars!](#)" to learn more.

### **[Educator CIRCLS](#)**

The Educator CIRCLS Emerging Technology Advisory Group for PK-12 will be announced soon. The advisory group will study existing research and partner with members of the CIRCLS community. We will work together to create practical policy recommendations to help school and district leaders protect individual privacy as they make decisions about the role of and use of artificial intelligence (AI) and machine learning (ML) in schools and classrooms (e.g., the role of emerging technologies to augment a teacher and support rather than replace a teacher). If you are interested in joining the conversation, [please fill out this form](#).

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

## **CIRCLS Project Spotlight**

The CIRCLS Project Spotlight is an opportunity for RETTL projects to introduce their work and share information about their project with the CIRCLS community that they might not otherwise get to learn about. Below is a sneak peek of our [new project spotlight](#):

*Claire Christensen, Senior Education Researcher at SRI International, shares more on her most recent NSF-funded project, [EAGER: Technology to Review Online Videos for Education \(TROVE\) \(#2139219\)](#).*

**Team:** [Anirban Roy](#), [Sarah Gerard](#), [Maddie Cincebeaux](#)

Exposure to online videos through various digital media platforms has become increasingly prevalent among young children. In particular, YouTube has become one of the most popular video streaming platforms regularly consumed. Because there are so many online videos and they are released at such an astonishing rate, it is challenging to understand the specific content that children are exposed to. Together, Dr. Claire Christensen, an education researcher, and Co-PI Dr. Anirban Roy, a machine-learning (ML) researcher, have formed an interdisciplinary team to create a machine learning-based tool that can identify early mathematics content in YouTube videos.

Continue reading the [full CIRCLS Project Spotlight](#) and make sure to check out our other recent spotlights on our website, including [Productive Engagement through Collaborative Action and Sociology \(PECAS\) Mediator](#).

## Opportunities

- **Call for Submissions:** [AIED 2022 Workshop](#): The NSF Institute for Student-AI Teaming (iSAT) will be hosting a virtual workshop at AIED 2022 on “Interdisciplinary Approaches to Getting AI Experts and Education Stakeholders Talking.” The workshop invites papers about:
  - specific ideas or approaches for interdisciplinary AIED research that connects researchers and stakeholders
  - research questions about how interdisciplinary research teams operate barriers and specific challenges not encountered in more siloed teams
  - unique benefits that arise due to interdisciplinarity across collaborations
  - “lessons learned” from existing interdisciplinary teams that bridge the gap between AI and stakeholders.

Paper submissions are due **June 27, 2022**. [Read more](#)

- **Job Opportunity:** [Postdoctoral Scholar – Community Organizing and Social Computing](#): The University of California, Irvine, invites postdoctoral scholars to submit applications for an NSF-funded position that will study how professional community organizers use data to pursue grassroots-led projects and influence data-intensive technologies. This position will support long-term engagement and programming with community partners guided by principles of research justice. Duties will chiefly involve recruiting self-described, professional community organizers for compensated, interview-based research. Applications are due **May 11, 2022**. [Read more](#)
- **Solicitation:** [NSF Faculty Early Career Development Program \(CAREER\)](#): The Faculty Early Career Development (CAREER) Program is a Foundation-wide activity that offers the National Science Foundation’s most prestigious awards in support of early-career faculty who have the potential to serve as academic role models in research and education and to lead advances in the mission of their department or organization. Activities pursued by early-career faculty should build a firm foundation for a lifetime of leadership in integrating education and research. Applications are due **July 26, 2022**. [Read more](#)
- **Solicitation:** [Dear Colleague Letter - Research Experiences for Undergraduates \(REU\) and Research Experiences for Teachers \(RET\) Supplemental Funding in](#)

[Computer and Information Science and Engineering](#): The National Science Foundation's (NSF) Directorate for Computer and Information Science and Engineering (CISE) invites grantees with active CISE awards to submit requests for Research Experiences for Undergraduates (REU) Supplements, following the guidelines in the REU Sites and Supplements solicitation ([NSF 19-582](#)). CISE also invites grantees with active CISE awards to submit requests for Research Experiences for Teachers (RET) Supplements, following the guidelines in the RET in Engineering and Computer Science: Supplements and Sites solicitation ([NSF 21-606](#)). Requests will be considered as they are received. CISE strongly encourages the submission of requests before **May 31, 2022**. [Read more](#)

- **Solicitation: [NSF Pathways to Enable Open-Source Ecosystems \(POSE\)](#)**: The National Science Foundation (NSF) is introducing a new program called "Pathways to Enable Open-Source Ecosystems" (POSE). The purpose of the program is to harness the power of open-source development for the creation of new technology solutions to problems of national and societal importance. The goal of the POSE program is to fund new open-source ecosystems (OSE) managing organizations, each responsible for the creation and maintenance of infrastructure needed for efficient and secure operation of an OSE based around a specific open-source product or class of products. Full Proposal Deadline(s) (due by 5 p.m. submitter's local time): **Phase I: May 12, 2022; Phase II: October 21, 2022**. [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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**Our mailing address is:**

Digital Promise  
1001 Connecticut Ave NW Suite 935  
Washington, DC 20036



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