RETTL needs your help! The program that’s provided support to much of the amazing work in the CIRCLS community has run its three-year course. As NSF contemplates renewing the program and the solicitation, it’s super important to update what we have accomplished. To that end, CIRCLS will produce quad charts to highlight outstanding work in our community. You could help in one of three ways:

1. Fill out a quad chart and send it to CIRCLS (see example quad chart); we’ll help you polish it up.
2. Complete our Project Survey, which can be used to help pre-populate your project’s quad chart (with your input). Your project’s personalized survey link was emailed over the summer. Search your inbox for an email with the subject line: CIRCLS NSF RETTL Project Inquiry.
3. Send CIRCLS a link to a signature paper, presentation, or video you’ve made via this form.

In fall 2023, CIRCLS will host our next convening (the last one was CIRCLS’21). We expect this to be an in-person gathering, and in a surprising turn, it does NOT have to be in Washington, DC. Got an idea for a great location? Would you like to serve on our program committee to help define the theme for this convening? Drop us a line.

**Expertise Exchanges**

**AI CIRCLS**

Last month, we wrapped up the project incubator on AI and literacy. Twenty-one participants from a variety of disciplines brainstormed innovative project ideas to define possible futures for emerging educational technologies. AI CIRCLS is now searching for a Broader Impacts Project Coordinator to help to plan and facilitate next year’s working groups. This position would be a good fit for those with an undergraduate or master’s degree who are interested in developing their understanding of emerging educational technology research and pursuing graduate studies in a related field. It might also be of interest to recent Ph.D. graduates who are interested in transitioning to workshop facilitation, science communication fields, or other similar work in the non-profit sector. Learn more and apply.

**Emerging Scholar CIRCLS**
Our Featured Emerging Scholar this month is Dr. Francisco Castro, a Computing Innovation Research Fellow at the Steinhardt School of Culture, Education, and Human Development at New York University. Francisco received his Ph.D. in Computer Science from Worcester Polytechnic Institute, Master in Information Technology from the Ateneo de Manila University, and B.S. in Computer Science from the University of the Philippines. His work focuses on the human-centered design of creative technologies that empower learners in computing and STEM disciplines. To learn more about Francisco and his work, read Empowering People Through Creative Computing.

**Educator CIRCLS**

Educators from Educator CIRCLS have been writing about artificial intelligence - read more in these two blog posts:

**How Can AI Systems Support Teachers: 5 Big Ideas from the Learning Sciences**

Explore five big ideas from the learning sciences in relation to the design of AI systems: Representation and Supports; Collaboration; How Students Think; Building on Students' Cultural and Linguistic Assets; Assessment and Feedback. We propose that these big ideas are important as a starting point in the design of better AI systems.

**Teachers Partnering with Artificial Intelligence: Augmentation and Automation**

A discussion of the kind of AI systems that teachers want to see developed. After talking with teachers, we discuss how an AI system might support teachers and students by automating— planning, monitoring, and documentation.

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:

*Chris Dede, AI-ALOE Co-Principal Investigator and Senior Research Fellow at Harvard Graduate School of Education, shares his vision for the recently funded NSF AI Institute for Adult Learning and Online Education (ALOE) (NSF Award #2112532).*

Team: Myk Garn, Principal Investigator, University System of Georgia; Ashok Goel, Director and Co-Principal Investigator, Georgia Institute of Technology; Scott Crossley, Co-Principal Investigator, Georgia State University; and Alexander Endert, Co-Principal Investigator, Georgia Institute of Technology, and Chris Dede, Co-Principal Investigator, Harvard Graduate School of Education

*The NSF AI Institute for Adult Learning and Online Education (AI-ALOE) aims to advance the workforce through higher and continuing education and adult education programs.*
Central to our work to create personalized learning technology is research and data collection in order to explore new AI theories, techniques, and models of lifelong learning while we evaluate effectiveness, track results, and study outcomes. No two adult learners (age 24 and up) process information the same way and may find different learning techniques or styles useful. This is why the work of AI-ALOE is crucial. Our work will create AI teaching assistants to support adult learners.

Continue reading the full CIRCLS Project Spotlight and make sure to check out our other recent spotlights on our website.

Opportunities

- **Call for Participation:** Catalyzing Communities Pilot: Attention CIRCLS Researchers who are interested in thinking more with practitioners! Please join us in participating in a Digital Promise pilot to bring research and practice closer together. For more information, please contact Anthony Baker at abaker@digitalpromise.org. [Read more.]

- **Event:** Emerging Scholar CIRCLS Mentoring Series: We are excited to announce the Fall 22 Emerging Scholar CIRCLS Mentoring Series Part 1. Our mentors for this series are Dr. Bertrand Schneider, Dr. Gautam Biswas, and Dr. Leema Berland. The one-hour small-group mentoring sessions are intended to foster informal and candid conversations among established scholars in the fields of computer and learning sciences and up to eight emerging scholars in each group. [Read more.]

- **Jobs:** Postdoctoral Research Fellow – Alliance for Identity-Inclusive Computing Education (AiiCE): AiiCE aims to increase the entry, retention, and course/degree completion rates of high-school and undergraduate students from groups that are historically underrepresented in computing through evidence-based, identity-inclusive interventions. The Alliance seeks three candidates from various disciplines to perform research at the intersection of identity and computing at the postsecondary level. Successful candidates will work with scholars from Duke University, the University of Oregon, Bard College, the Kapor Center, Georgia Tech, ABET/CSAB, Reboot Representation, Northeastern University’s Center for Inclusive Computing, and more. Application review begins January 1, 2023. [Read more.]

- **Solicitation:** NSF Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (NSF INCLUDES): NSF INCLUDES is a comprehensive, national initiative to enhance U.S. leadership in science, technology, engineering, and mathematics (STEM) discovery and innovation, focused on NSF’s commitment to ensuring accessibility and inclusivity in STEM fields. This initiative seeks to motivate and accelerate collaborative infrastructure building to advance equity and sustain systemic change to broaden participation in STEM fields at scale. The next deadline for full proposals is October 25, 2022. [Read more.]

- **Solicitation:** NSF: Advancing Informal STEM Learning (AISL): The AISL program is committed to funding research and practice, with a continued focus on investigating a range of informal STEM learning (ISL) experiences and environments that make lifelong learning a reality. The current solicitation encourages proposals from institutions and organizations that serve public audiences and specifically focuses on public engagement with and understanding
of STEM, including community STEM; public participation in scientific research (PPSR); science communication; intergenerational STEM engagement; and STEM media. Full proposals are due January 11, 2023. Read more.

Don't forget that NSF Research on Emerging Technologies for Teaching and Learning (RETTL) proposals are due October 17, 2022. Review our proposal guidelines page for more information and resources.

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

Follow us on FACEBOOK | TWITTER | LINKEDIN

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