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This research project will provide foundational knowledge about the practices that support effective and equitable learning environments for students who are underrepresented in CS.

**New Challenges & Next Steps**

We are exploring the best ways to recruit and involve those at the center of this work--teachers, parents, and students--throughout the project in meaningful and respectful ways.

**Equity**

We conduct research through a racial equity lens that spans the entire research process, from the identification of research questions to the selection of data collection methods and outcomes, to the interpretation and dissemination of findings (Chicago Beyond, 2019). In line with these principles, we will regularly engage a diverse community-based working group—comprised of teachers, parents, and students, throughout all stages of the project.

**Lessons Learned & Insights Gained**

We have begun to articulate a framework of culturally responsive-sustaining computer science education based on a literature review and advice from experts in the field of computer science education, culturally responsive-sustaining education, community-based STEM education, and universal design. We will use the framework to guide the development of our instruments.

**Beyond Access and Participation in CS for All: Measuring Equitable CS Learning Environments**

**Overview**

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NSF Award Number​: 2219389 Dates: 2022-2024

Project type:​ CSforAll RPP Research

Project Overview: This project will develop and study measures of culturally responsive-sustaining education (CR-SE) in computer science (CS)—providing vital tools and evidence to inform the growing CS education field.