

CAREER: Investigating Black Youths' Engineering, Innovation, and Design Practices | AWARD # [2045568](#)

Community Partners:

Michelle Reaves, (DAPCEP), mreaves@dapcep.org
Lucie Howell (U-M Museum of Natural History,
lucieh@umich.edu

PI: DeLean Tolbert Smith (UM-Dearborn | Leverage Lab), dtolber@umich.edu

Project website link : TBA

Project Description

This research elevates Black families' engineering, innovation, and design practices in informal learning spaces, embedding them into the scholarly body of knowledge while expanding research methodologies to authentically capture and analyze the rich data these experiences generate.

Key Achievements

- Engaged 49 families in research activities virtually, through in-person guided activities, and through in-person unguided visits to museums and informal learning settings. Generated rich data including recorded design sessions and family podcasts. Broader Impacts: Culturally sustaining informal learning curriculum; validation of familial, practices, experiences and knowledge
- What didn't work: treating families as subjects instead of learning partners. This work benefits from developing meaningful relationships with families.

Audience & Settings

Audience: African American/Black Families, Out of school time Practitioners

Discipline type: Engineering, Invention, Design

Learning environment: Museums