

This project has begun the process of unpacking the complex dynamics of interactions between youth and facilitators in engineering outreach settings

**New Challenges & Next Steps**

* In our final year we are working to finalize journal articles that disseminate our findings. We are also sharing 2-4 case studies of engineering outreach interactions to support other outreach programs in thinking about more progressive pedagogical approaches.

**Equity**

* *Data analysis of elementary students’ interviews looked through the lens of gender to find differences in how students’ experienced engineering outreach in the classroom. Findings indicated that female students shared much lower self-evaluations for their engineering abilities and connected that to successfully completing physical prototypes.*

**Lessons Learned & Insights Gained**

* *Amplifying the voices of elementary students’ participating in engineering outreach through interviews brought forth new ideas about what is important in the design of engineering outreach interventions. Students highlighted who their role models were and did not identify outreach ambassadors (undergraduate engineering students) as role models for engineering careers. They also connected their self-evaluation of their engineering abilities to their completion of physical prototypes.*
* *Analysis of outreach ambassadors’ discourse in the classroom found that they support elementary students engineering activity with a mix of ambitious and conservative talk moves.*

**Role Models in Elementary Engineering Education (RMEE)**

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NSF Award Number​: 1657509 Dates: 2017-2023

Project type:​ ITEST

Project URL: N/A

Project Overview: This research and development project generates knowledge about engineering outreach dynamics and is working toward creating tools to support more progressive and impactful outreach.