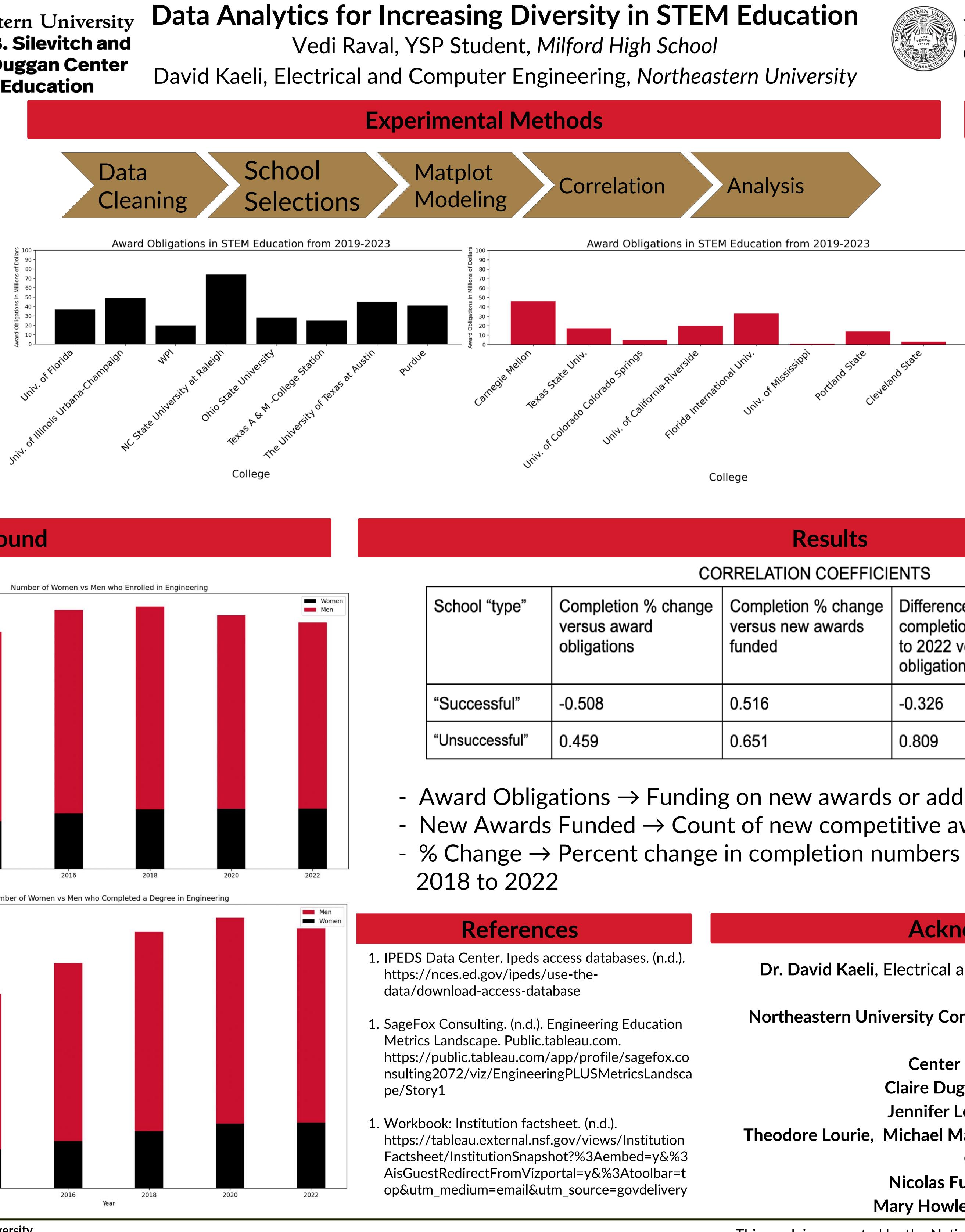
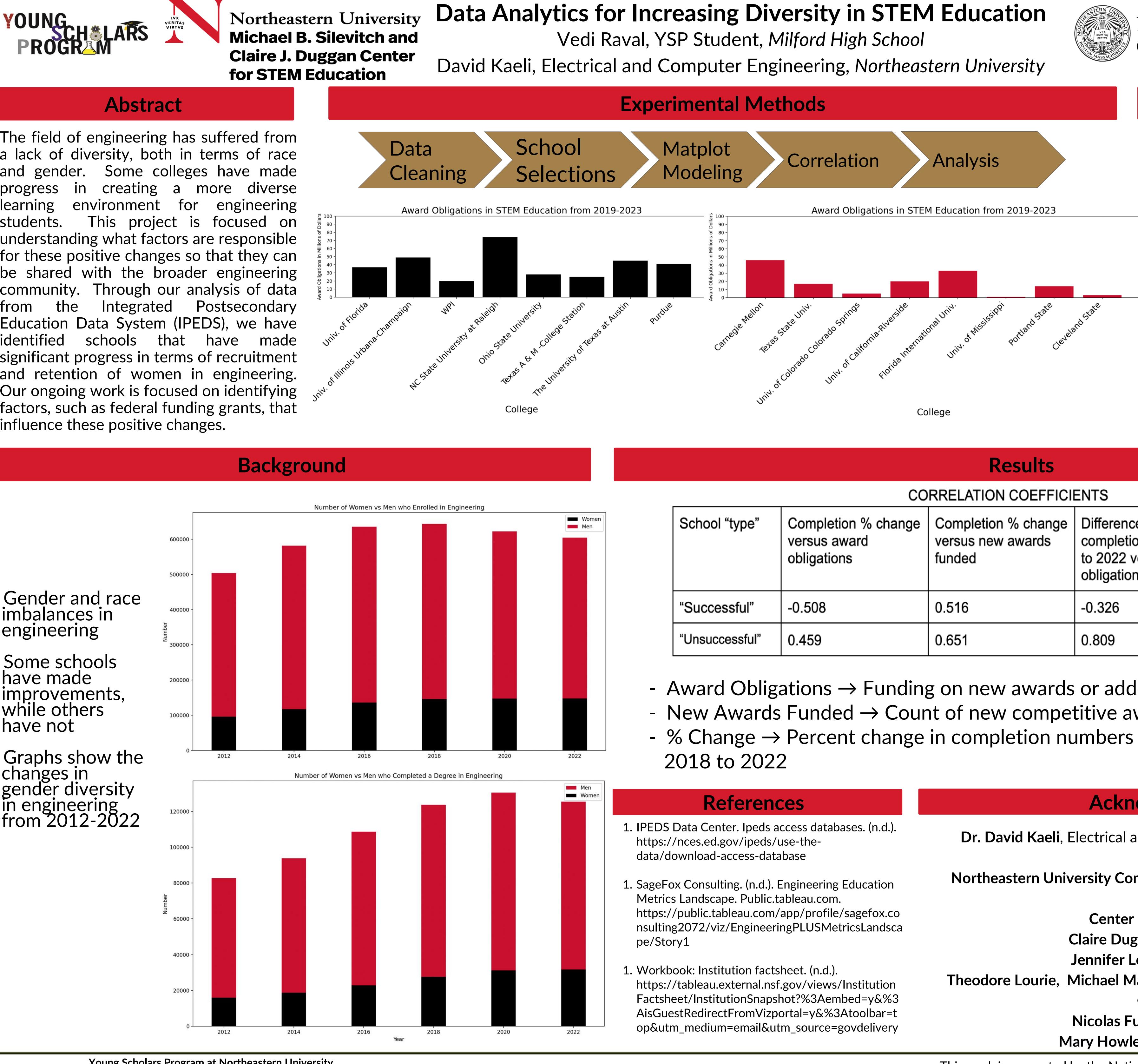
Abstract

The field of engineering has suffered from a lack of diversity, both in terms of race and gender. Some colleges have made progress in creating a more diverse environment for engineering learning This project is focused on students. understanding what factors are responsible for these positive changes so that they can be shared with the broader engineering community. Through our analysis of data Integrated the from Education Data System (IPEDS), we have that identified schools have significant progress in terms of recruitment and retention of women in engineering. Our ongoing work is focused on identifying factors, such as federal funding grants, that influence these positive changes.





- Gender and race imbalances in engineering
- Some schools have made improvements, while others have not
- Graphs show the changes in gender diversity in engineering from 2012-2022

Young Scholars Program at Northeastern University Claire Duggan, Program Director



		Results			
CORRELATION COEFFICIENTS					
pe"	Completion % change versus award obligations	Completion % change versus new awards funded	Difference in completion from 2018 to 2022 versus award obligations	Difference in completion from 2018 to 2022 versus new awards funded	
ul"	-0.508	0.516	-0.326	0.607	
sful"	0.459	0.651	0.809	0.795	

- Award Obligations \rightarrow Funding on new awards or added money to prior awards - New Awards Funded \rightarrow Count of new competitive awards made - % Change \rightarrow Percent change in completion numbers for women in engineering from

Ack	erences
Dr. David Kaeli , Electrical	Ipeds access databases. (n.d.). 'ipeds/use-the- ess-database
Northeastern University Co Center Claire Du	(n.d.). Engineering Education Public.tableau.com. u.com/app/profile/sagefox.co gineeringPLUSMetricsLandsca
Jennifer Theodore Lourie, Michael Micolas	on factsheet. (n.d.). rnal.nsf.gov/views/Institution nSnapshot?%3Aembed=y&%3 omVizportal=y&%3Atoolbar=t nail&utm_source=govdelivery
Mary How	



Conclusion and Future Steps

- 8 potential metrics that could influence positive changes
- Narrowing down metrics
- to more concise measures
- Expanding to new metrics - Expanding into the workforce and companies to increase workplace diversity

nowledgements

l and Computer Engineering, Northeastern				
University				
omputer Architecture Research Laboratory				
(NUCAR)				
er for STEM Education				
uggan, Executive Director				
Love, Associate Director				
Marchev, Victoria Berry & Angelina Le, YSP				
Coordinators				
Fuchs, Program Manager				
vley. Administrative Officer				