

Gaining Insights Into The Effects  
Of Culturally Responsive  
Curriculum On Historically  
Underrepresented Students' Desire  
For Computer Science

Omoju Miller

University of California, Berkeley

June 2016

# Equalizing Participation in Computer Science

- 1 A lack of presence of CS in K-12 education.
- 2 **The under-production of post-secondary degrees in CS.**
- 3 **The underrepresentation of women in CS.**
- 4 The underrepresentation of ethnic minorities in CS.
- 5 A lack of positive CS role models in the media.

Three pathways into CS at UC Berkeley

- **CS3: Introduction to Symbolic Programming**.
- CS61A: Structure and Interpretation of Computer Programs.
- CS61AS: Self paced version of CS61A

In her study of attrition in undergraduate CS at Berkeley, Lewis found that female students were disproportionately weeded out of the track, often starting at CS3

**Lewis:EECS-2010-132**

Three pathways into CS at UC Berkeley

- **CS10: The Beauty and Joy of Computing**.
- CS61A: Structure and Interpretation of Computer Programs.
- CS61AS: Self paced version of CS61A