iAAMCS: Diversifying the Computing Pipeline

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iAAMCS Objectives

1. Increase the number of African-Americans receiving Ph.D. degrees in computing sciences

1. Promote and engage students in teaching and training opportunities

1. Add more diverse researchers into the advanced technology workforce
Tapia 2015, Boston, MA
Barriers to STEM Discipline Ph.D.

1. Stereotypes
2. Role Models
3. Helping Professions
4. Financial Concerns
5. Inadequate Advisement
6. Lack of Knowledge of Ph.D.
7. Employment Opportunities

Mentoring

- If we breakdown the barriers, will this:
  a) Increase participation
  b) Increase persistence
  c) Change the view of a scientist
Diversifying Computing PhDs
Early Interventions

- In data collections from Black/African-American CS PhDs
- It emerged both in quantitative and qualitative data.
- Individuals both mentioned during interviews that early exposure was very important and in the quantitative work, early exposure was a predictive measure for those individuals currently in CS.
Thank You

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