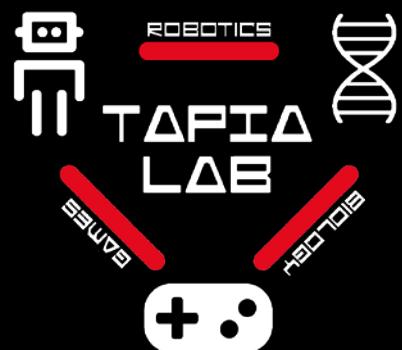


Hispanics and Native Americans in Computer Science: Patterns, Pressures, and Programs



Lydia Tapia
Associate Professor
Computer Science





Personal Interest



Elena
Delgado



Bruna
Jacobson

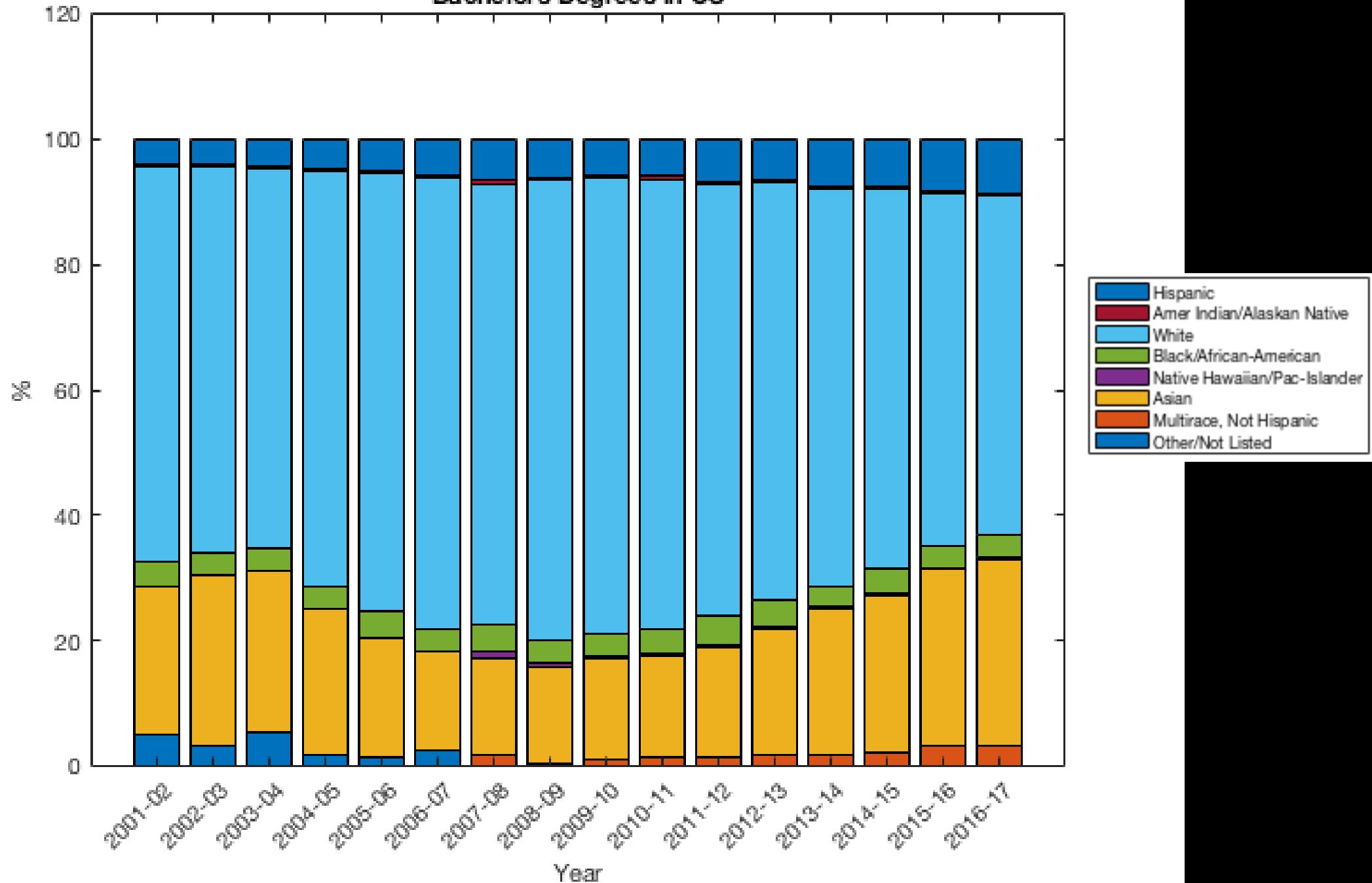


Lydia
Tapia

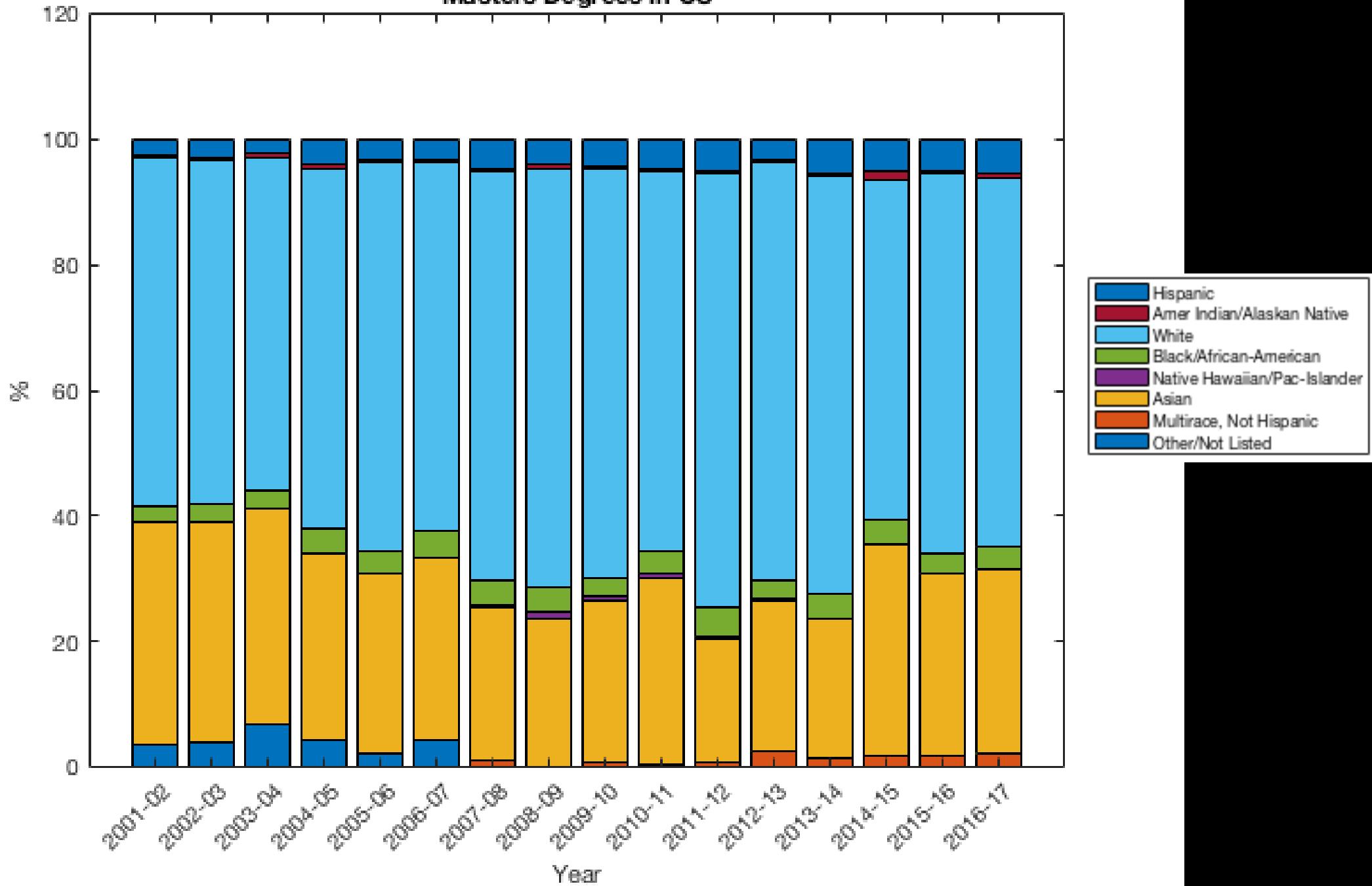


Kasra
Manavi

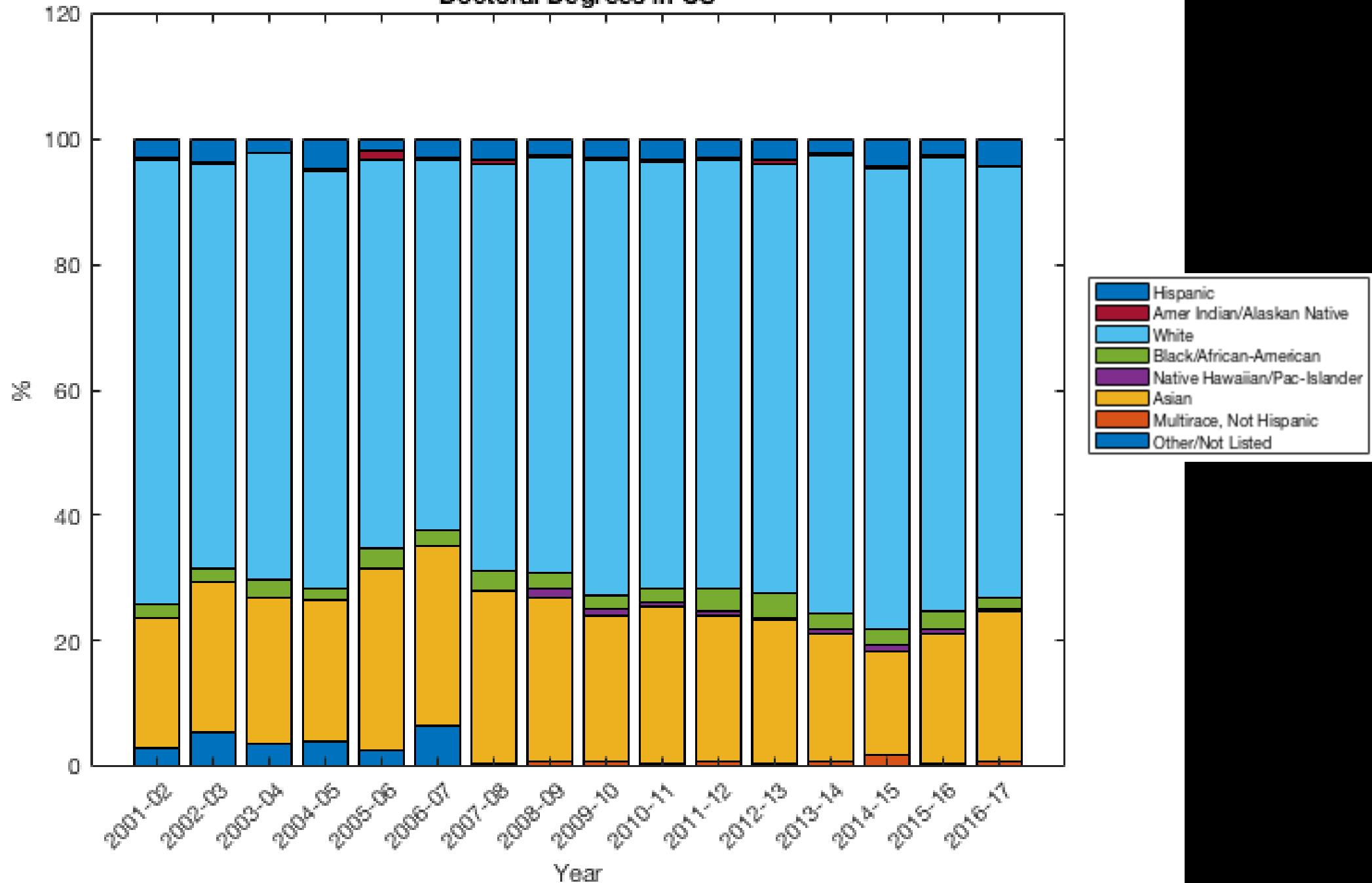
Bachelors Degrees in CS



Masters Degrees in CS



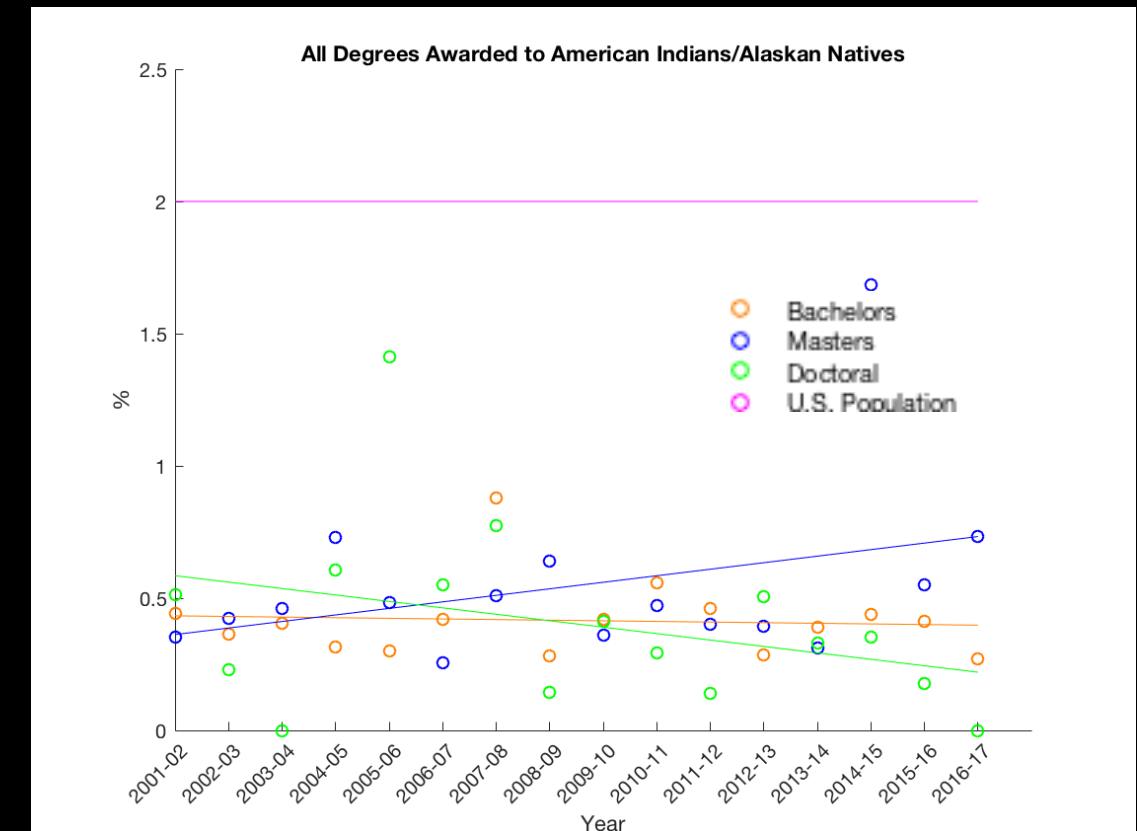
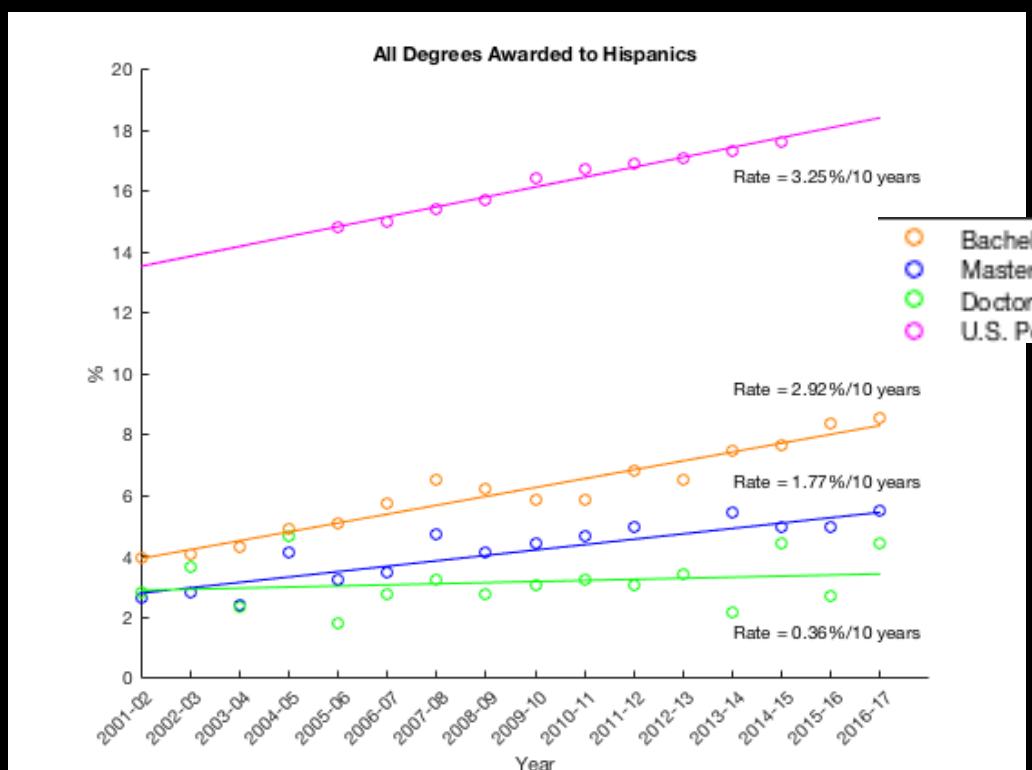
Doctoral Degrees in CS



Degrees Awarded



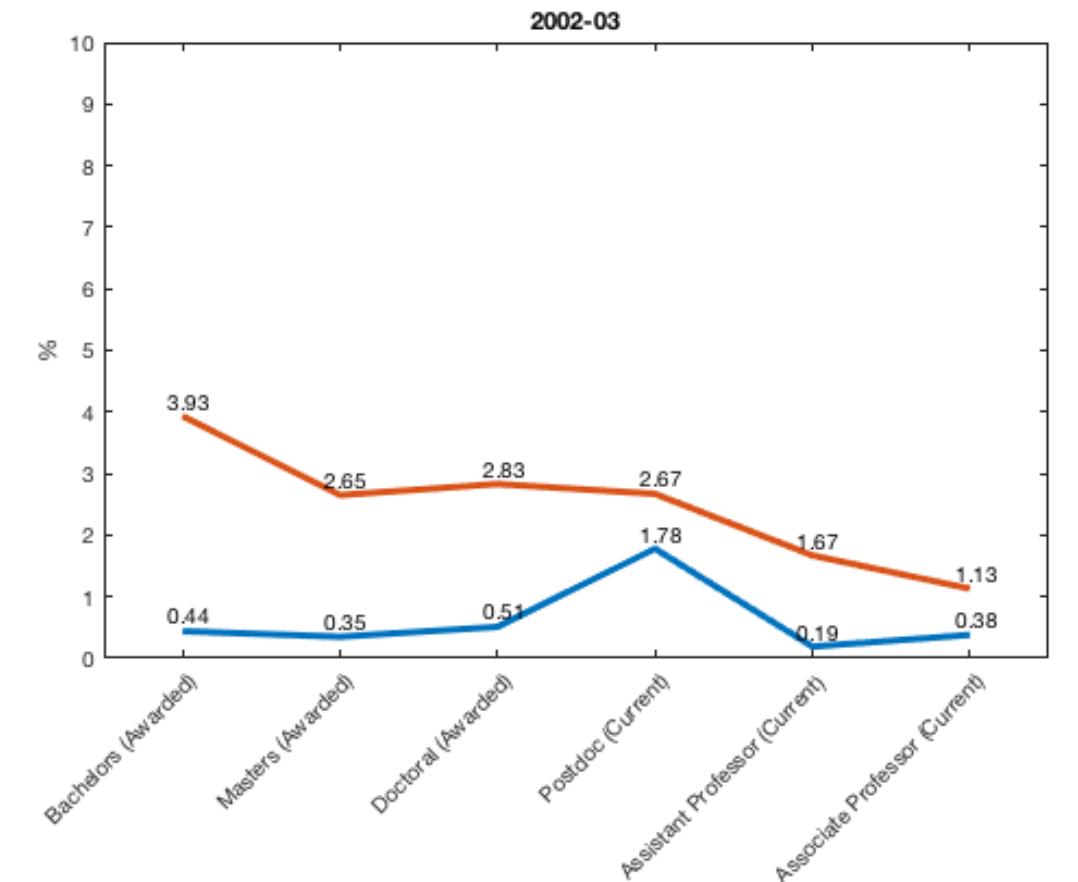
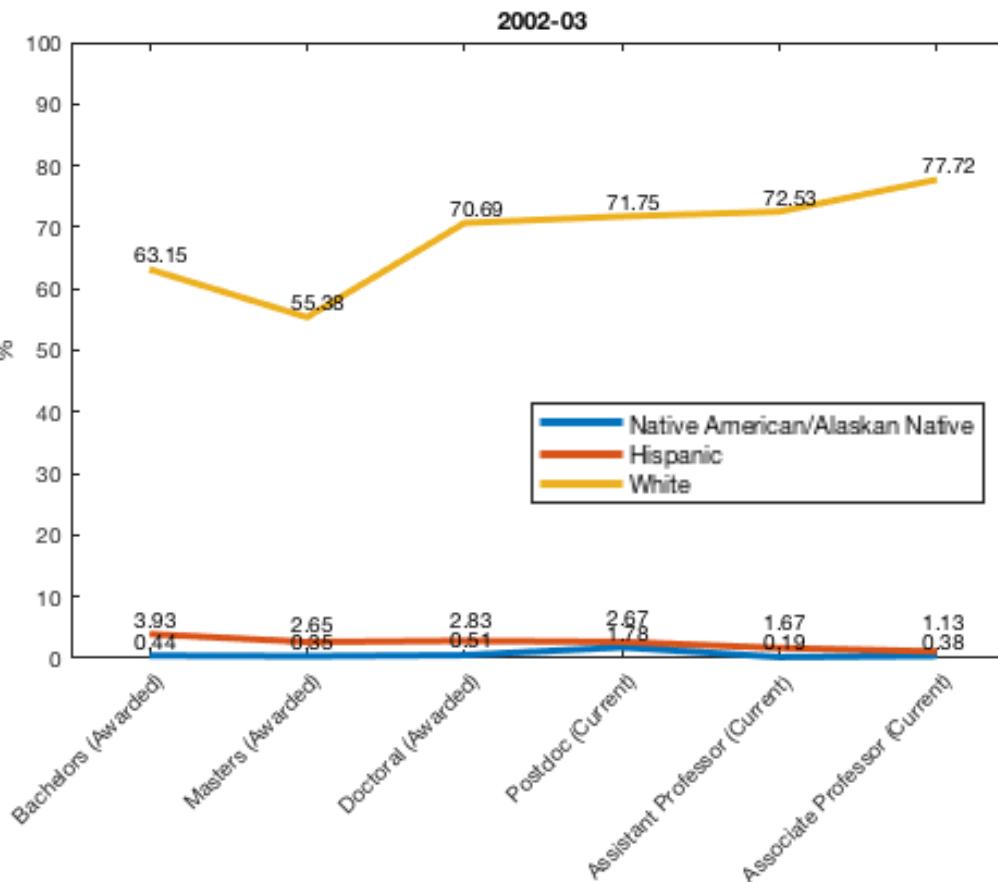
Degree data from Taulbee Survey, Computing Research Association
Hispanic population data from the Pew Research Center
Native American population data from the US Census



CS Career Pipeline

15 Years Ago

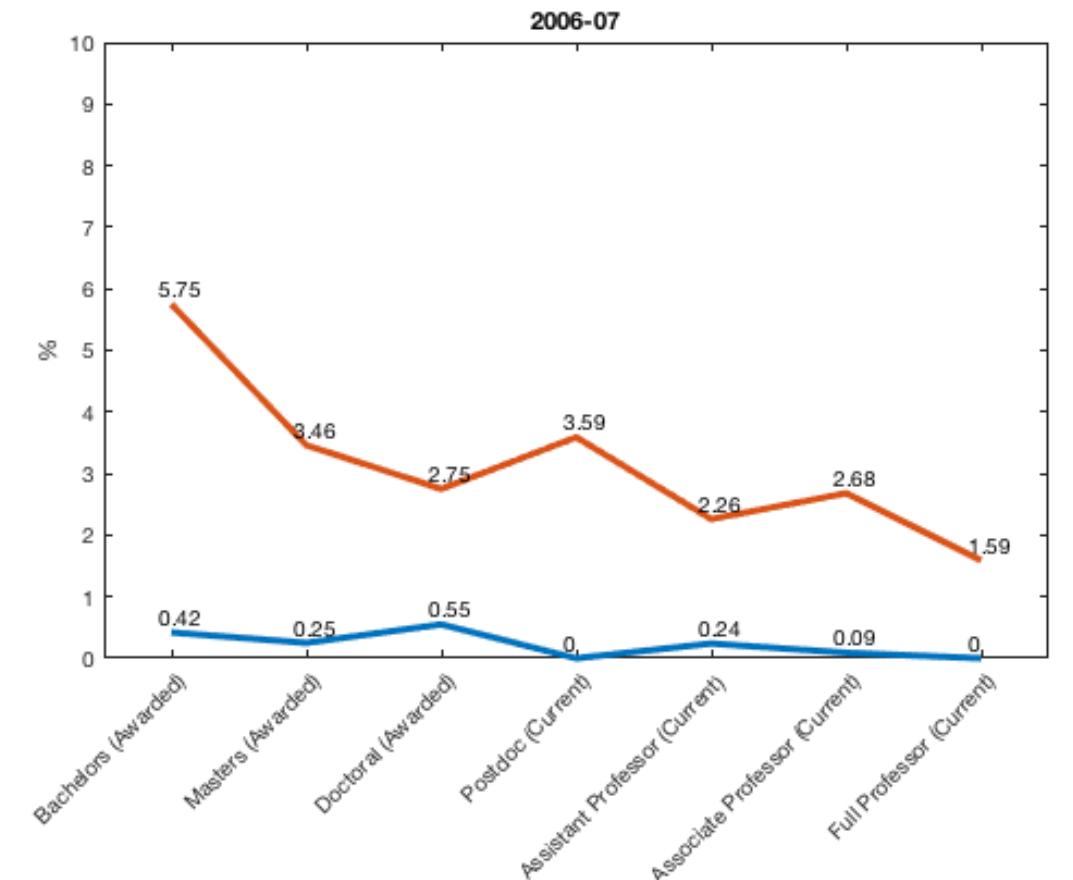
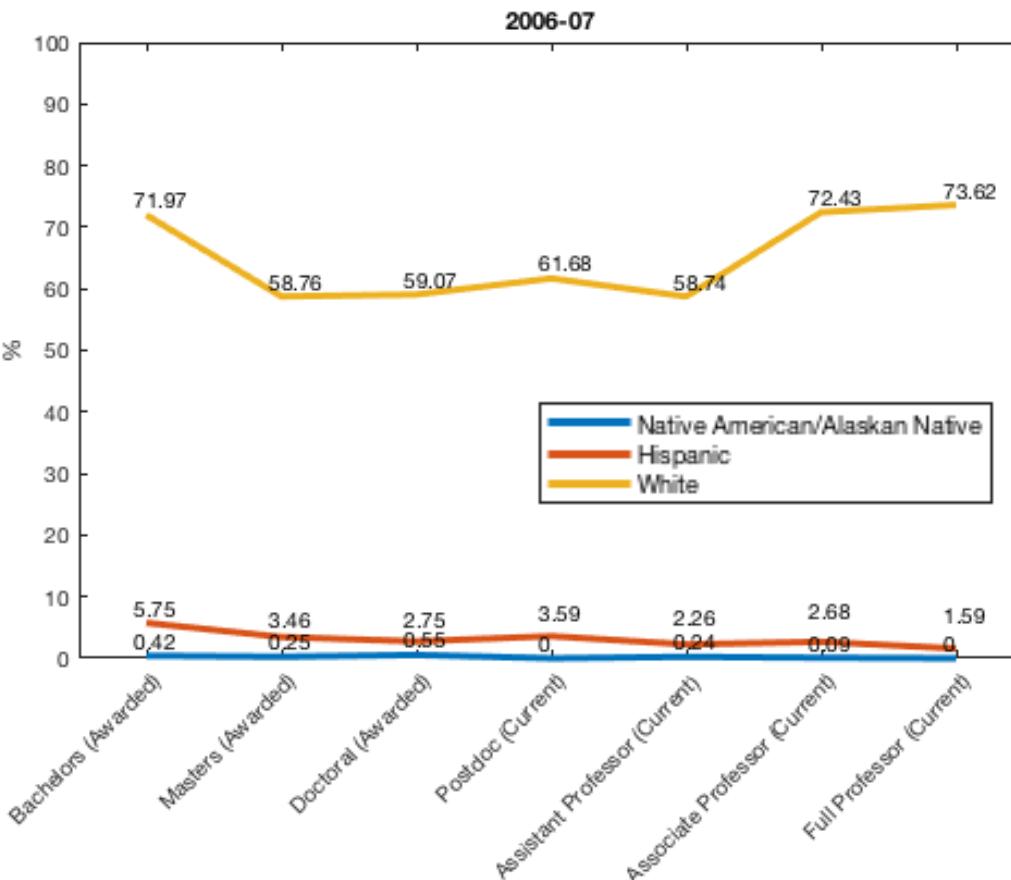
Data from Taulbee Survey, Computing Research Association



CS Career Pipeline

10 Years Ago

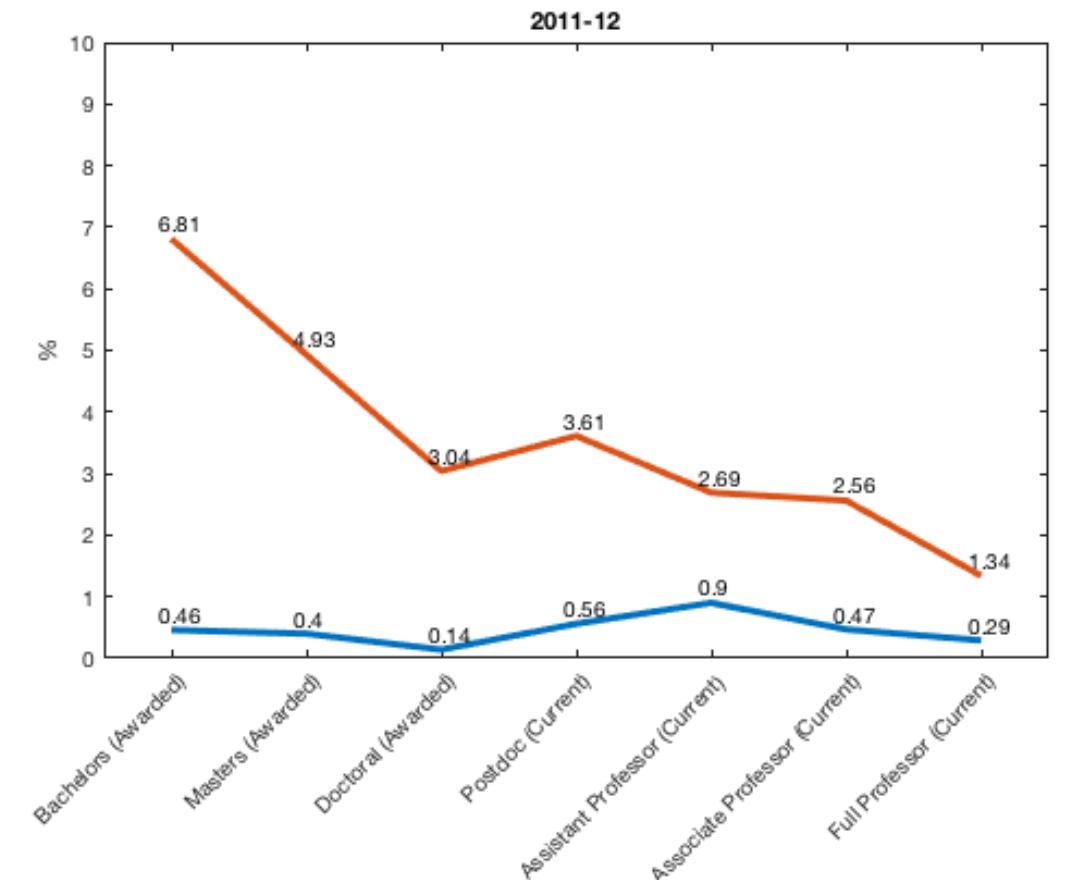
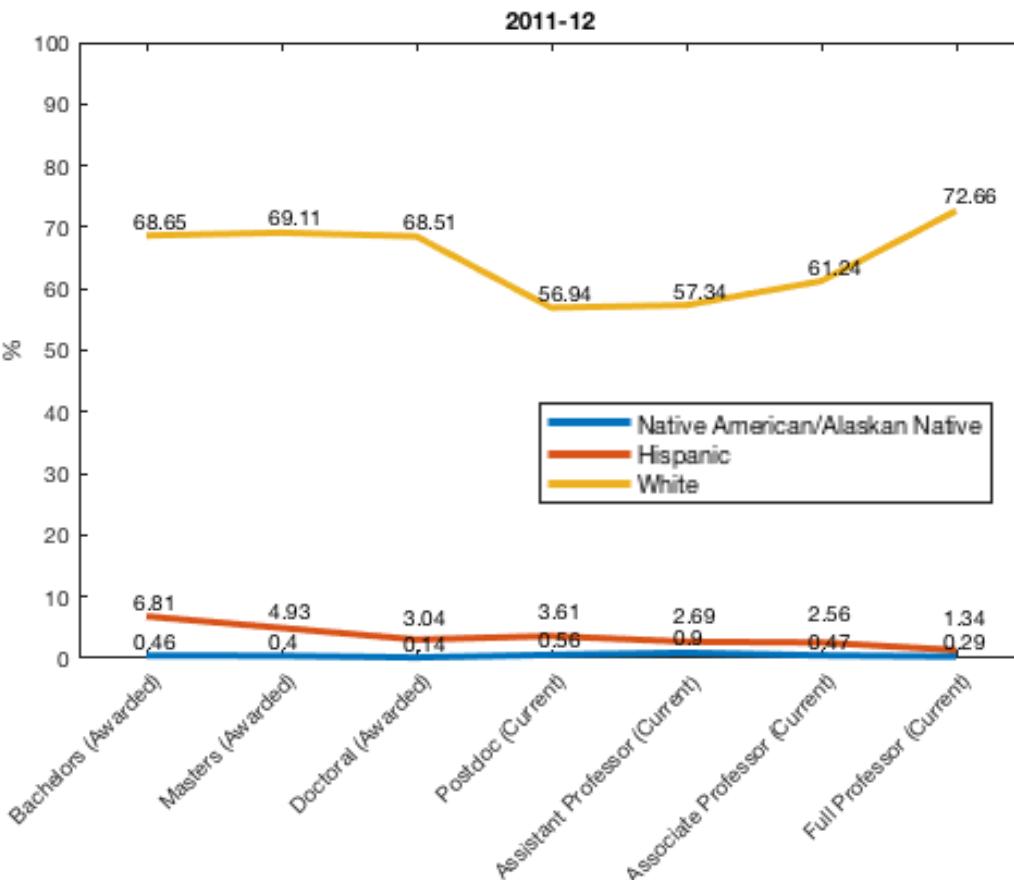
Data from Taulbee Survey, Computing Research Association



CS Career Pipeline

5 Years Ago

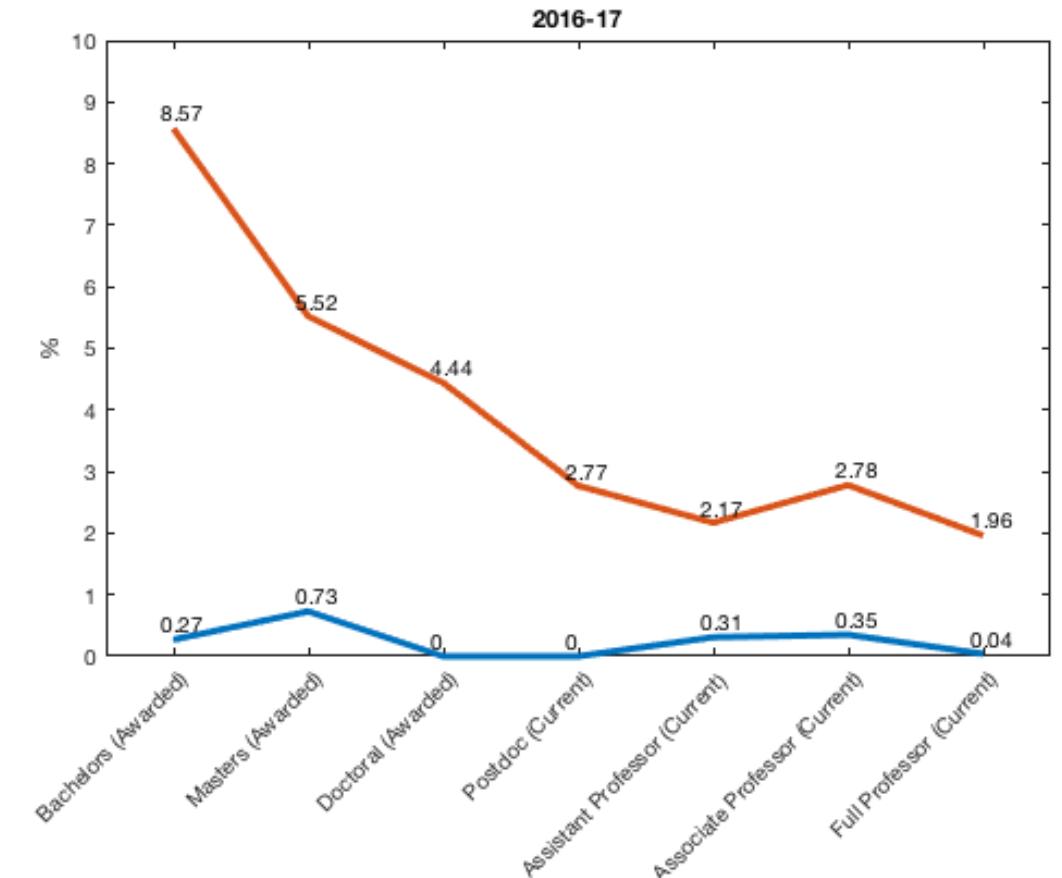
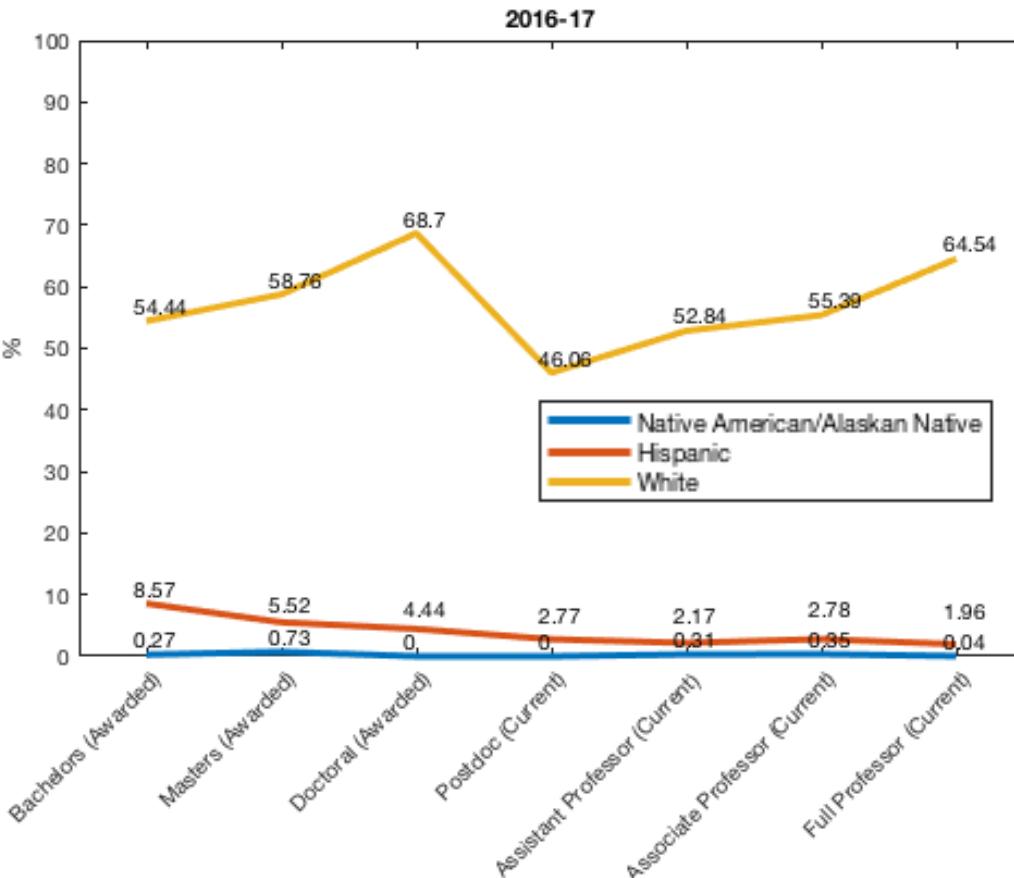
Data from Taulbee Survey, Computing Research Association



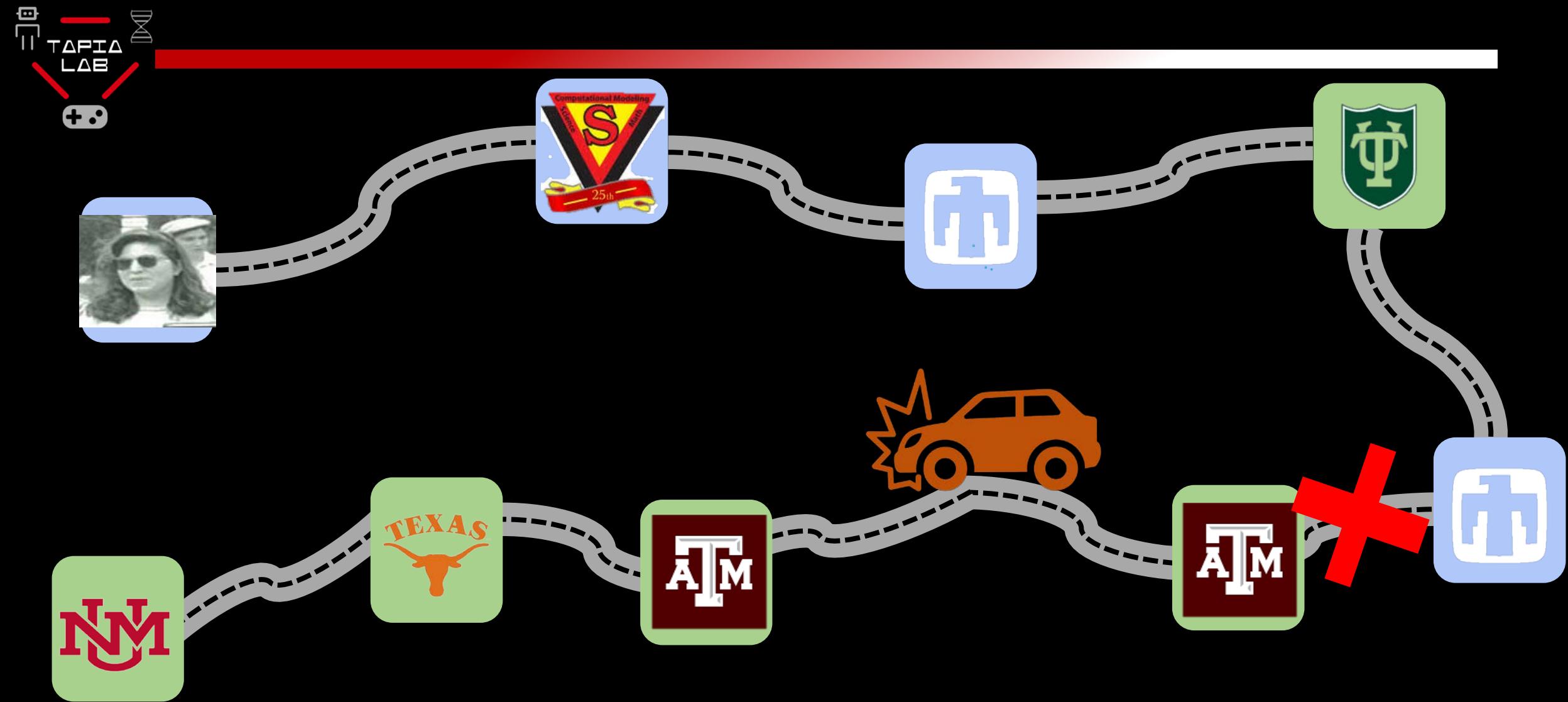
CS Career Pipeline

Current

Data from Taulbee Survey, Computing Research Association



My Path in CS



Common Themes



Lack of
technology
resources

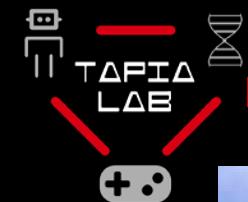
(Financially)
contribute
to the
family

Travel
challenges

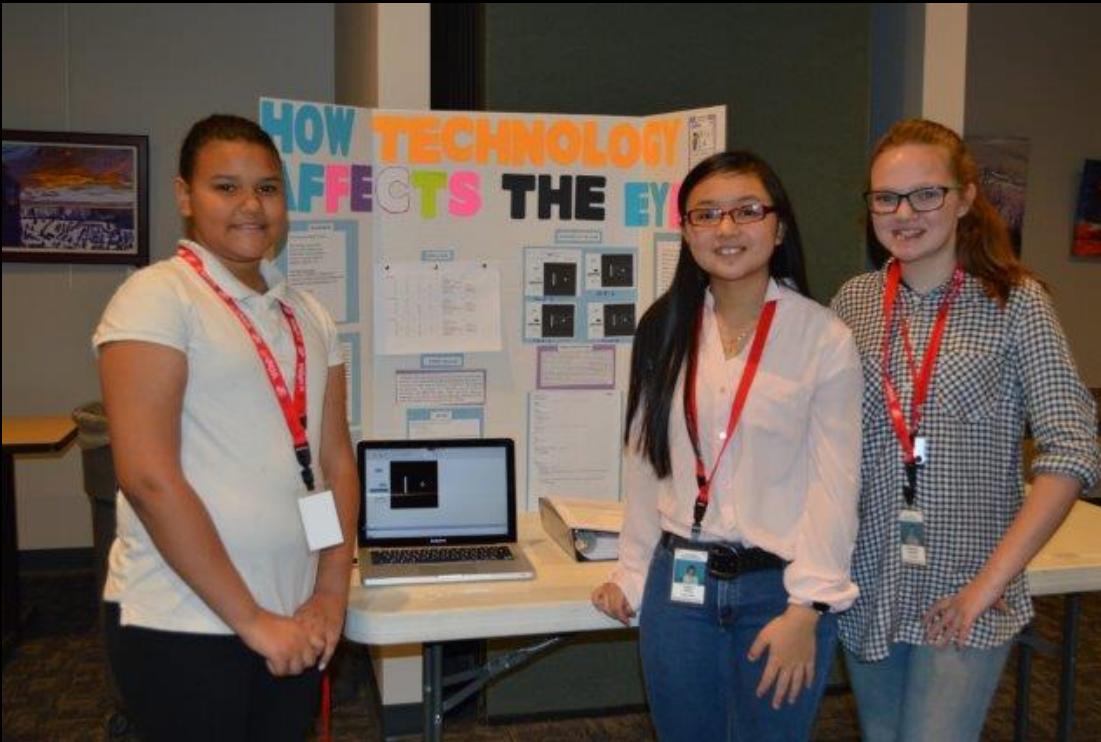
*Stay close
to home*

Lack of
understanding
about graduate
school

Programs that Make a Difference



K-12



NM Supercomputing Challenge



Tapia Lab Demos

K-12



NM CS4All

Programs that Make a Difference



Undergraduate



NASA Swarmathon



Robot Guru

Programs that Make a Difference



Graduate

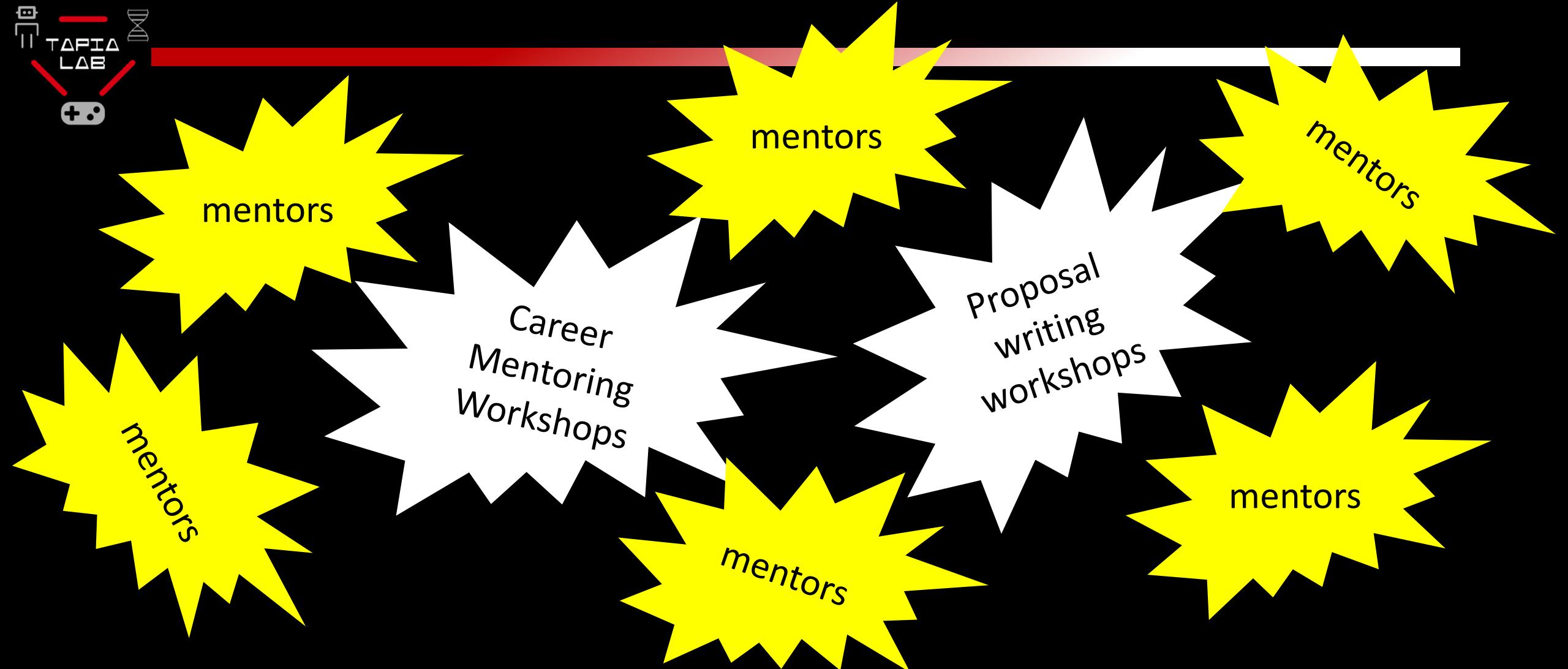


CRA-W Grad Cohort
URMD

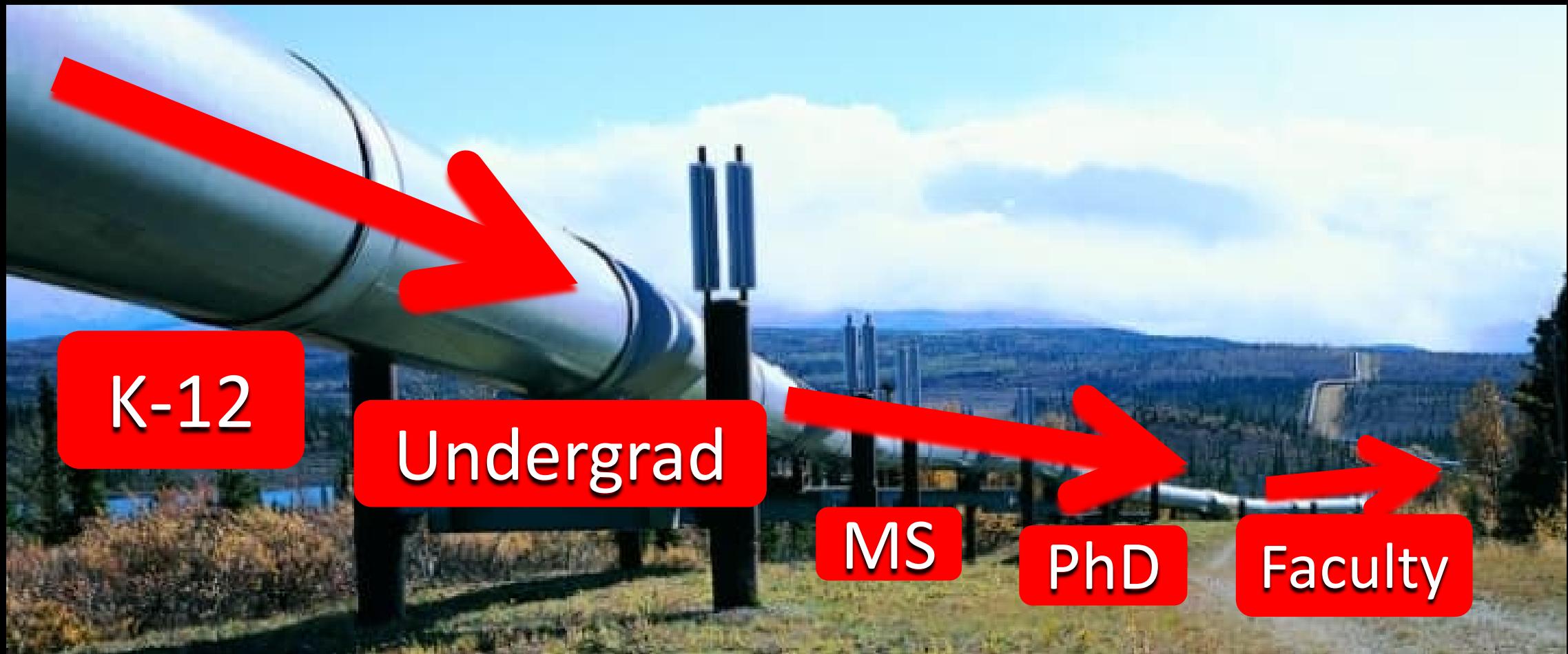
Programs that Make a Difference



Faculty



Where Do We Go From Here?



Special Thanks!

PhD Students

Elena Delgado
Jake Nichol

Postdoctoral Fellow

Satomi Sugaya

Others

Betsy Bizot, Computing Research Association
Celia Einhorn, Supercomputing Challenge
Melanie Moses, CS4All and Swarmathon

