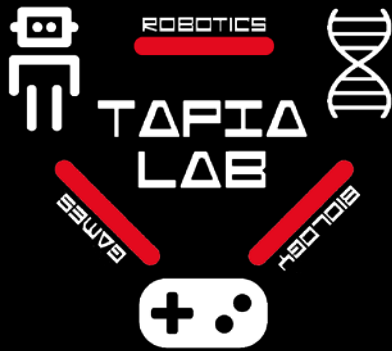


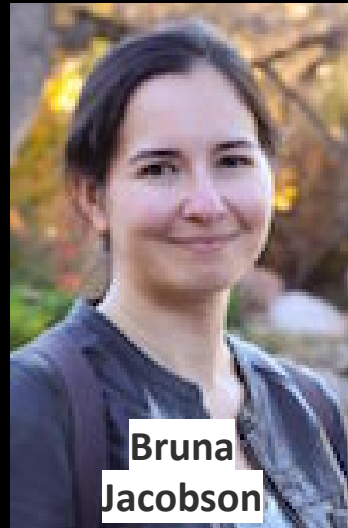
Hispanics and Native Americans in Computer Science: Patterns, Pressures, and Programs

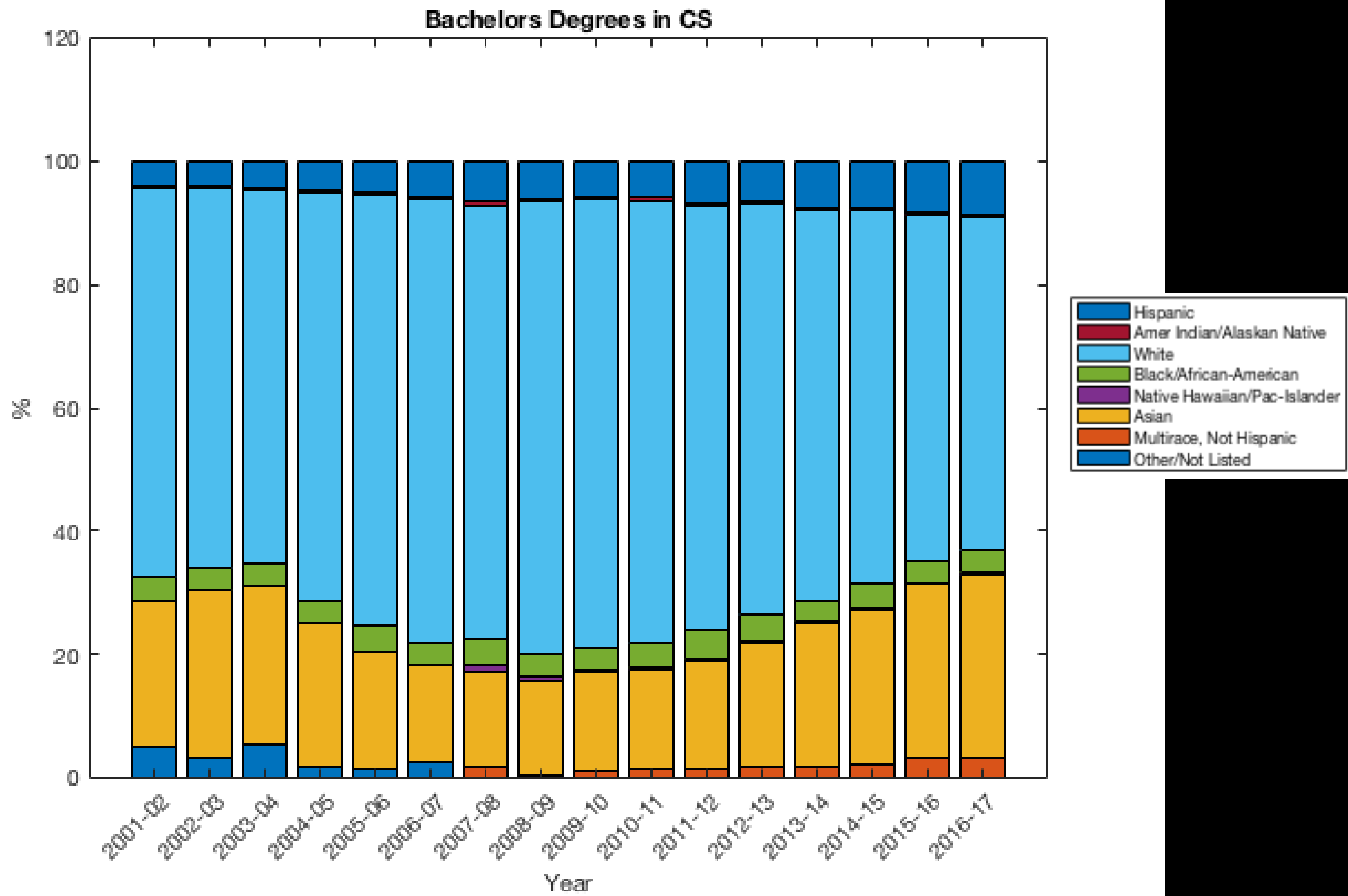


Lydia Tapia
Associate Professor
Computer Science



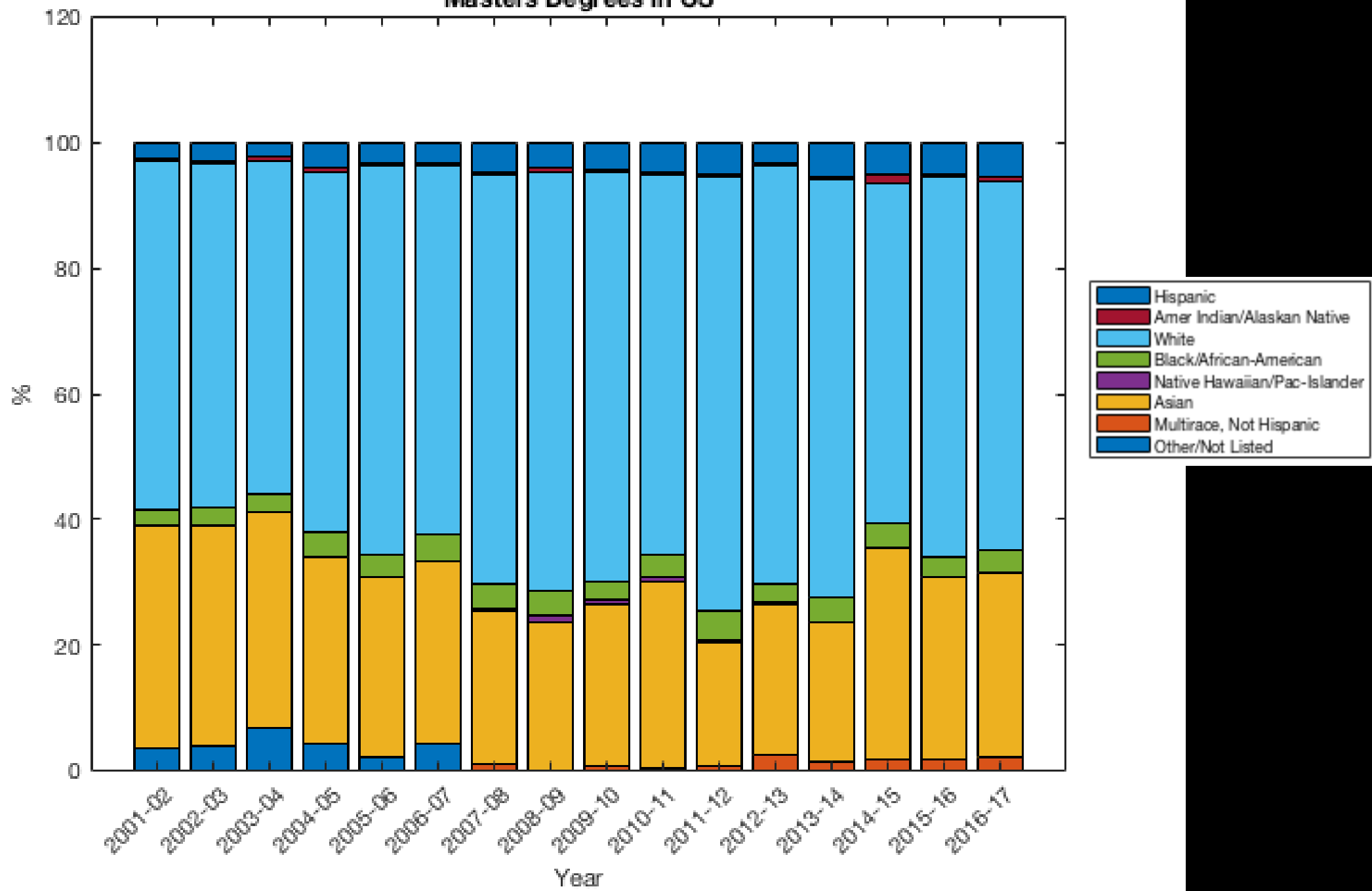
Personal Interest

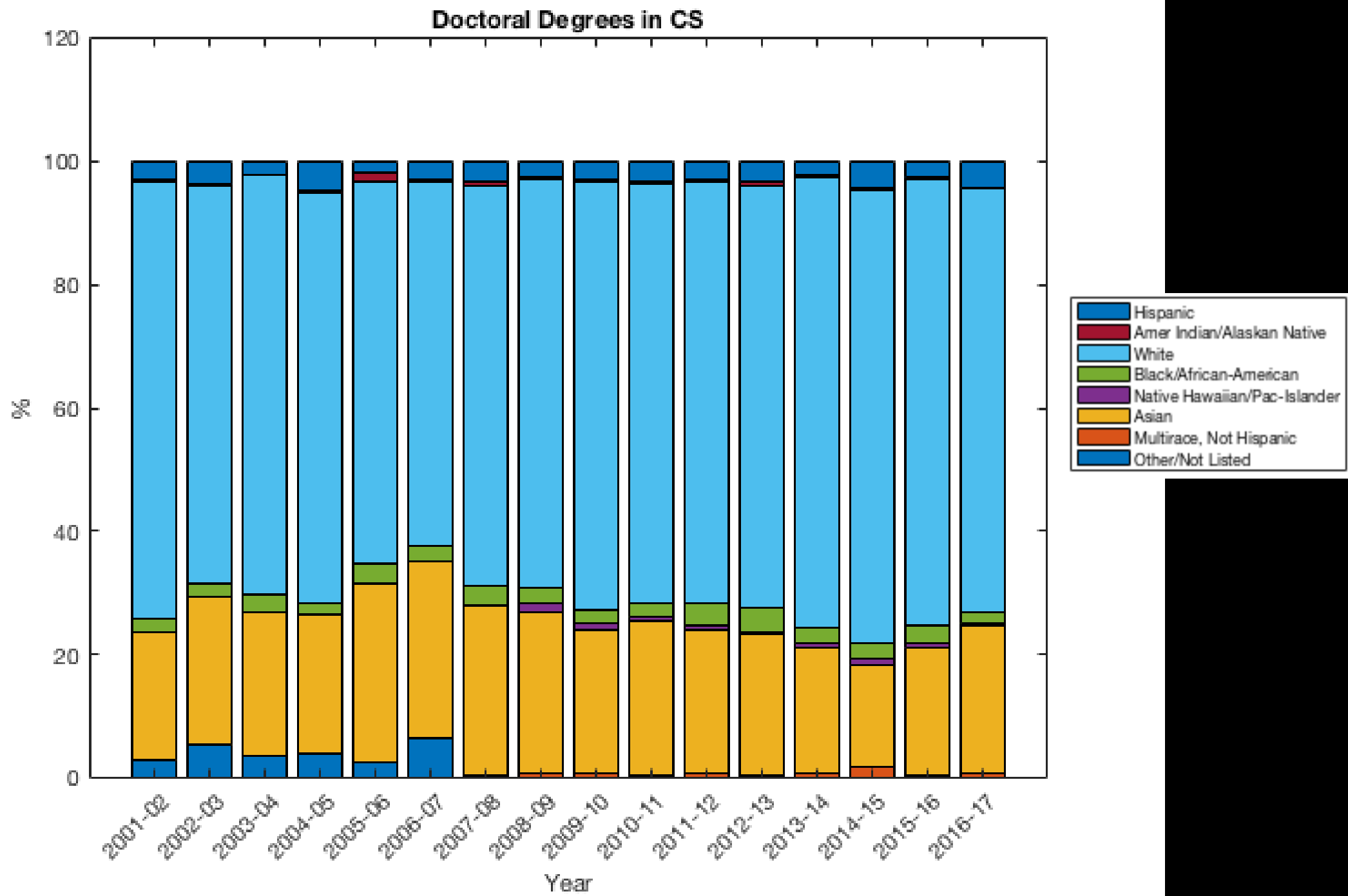






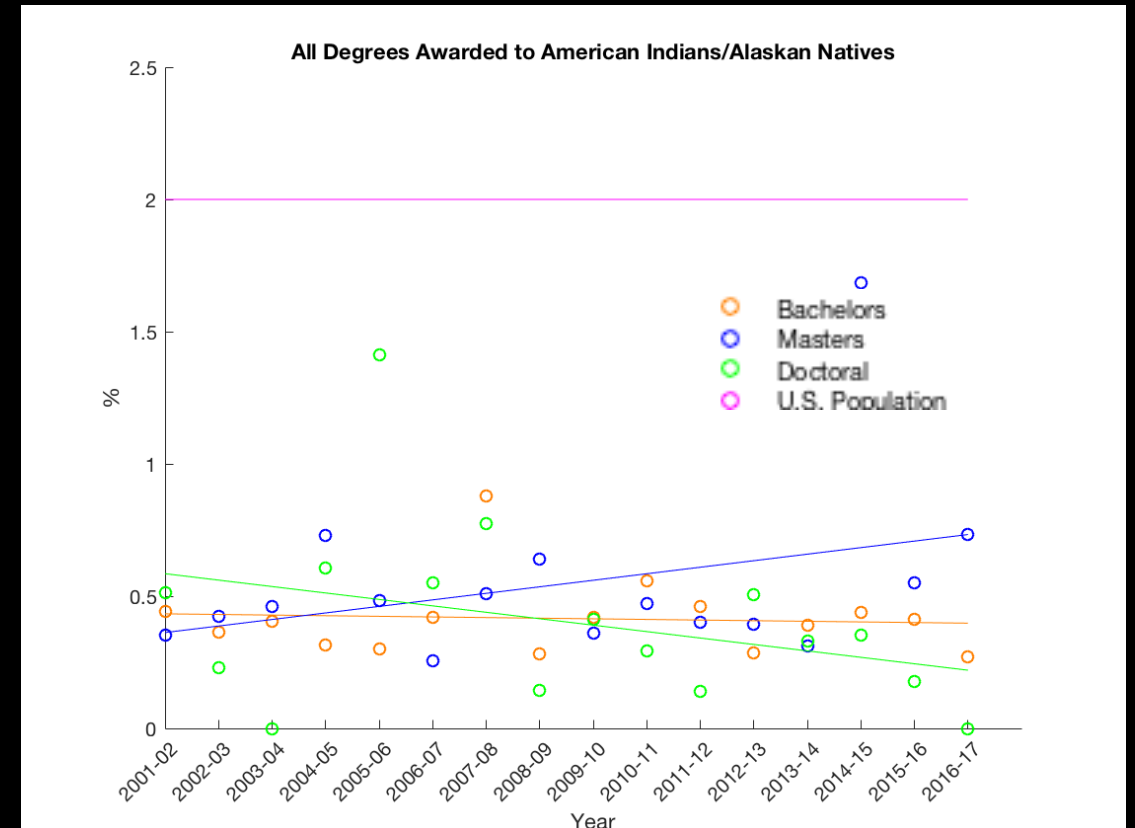
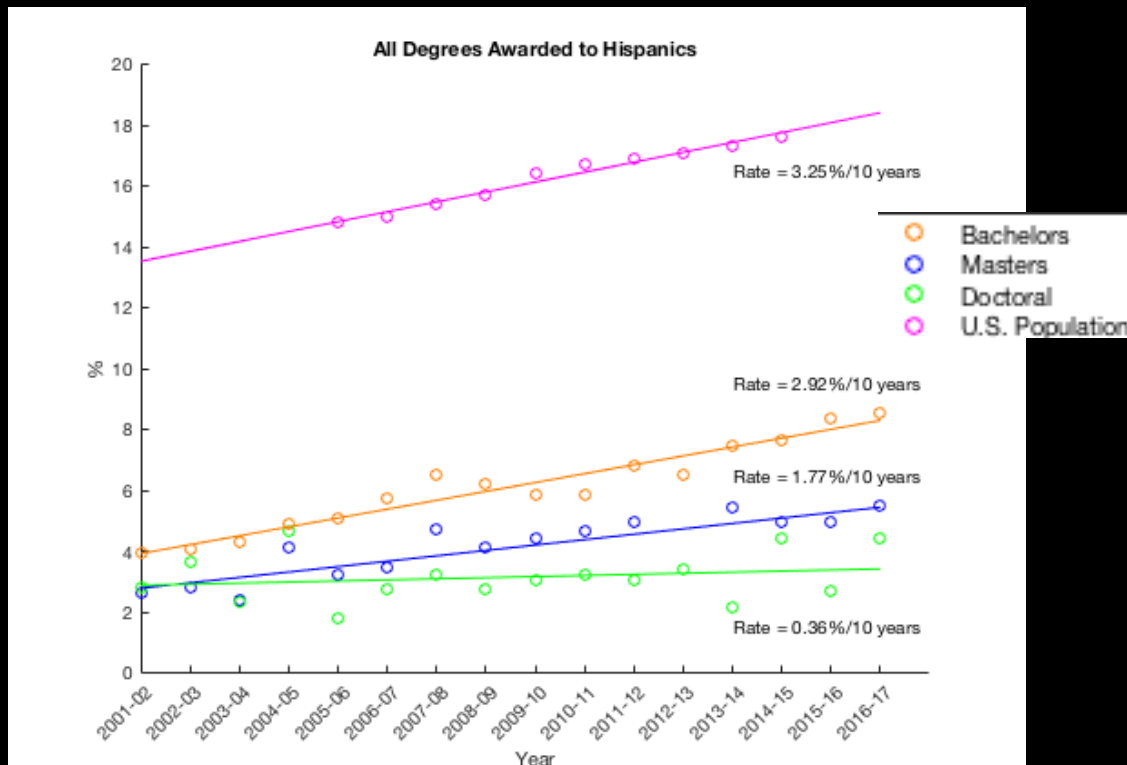
Masters Degrees in CS





Degrees Awarded

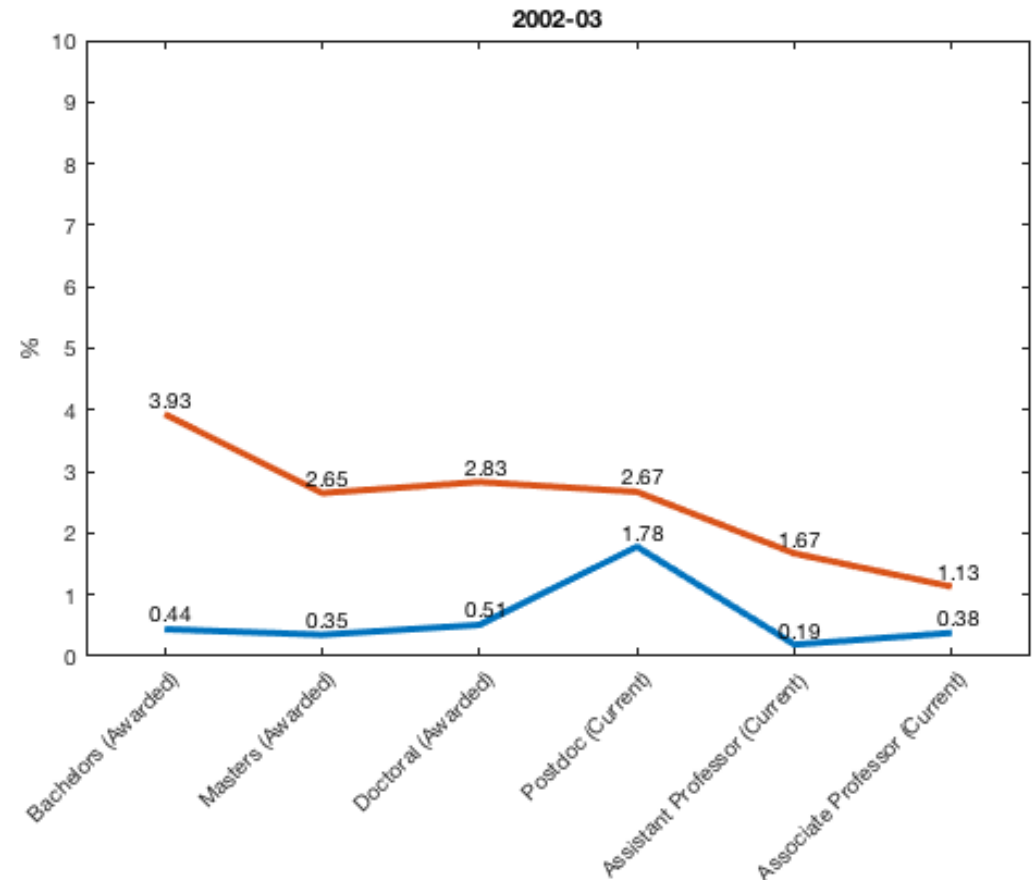
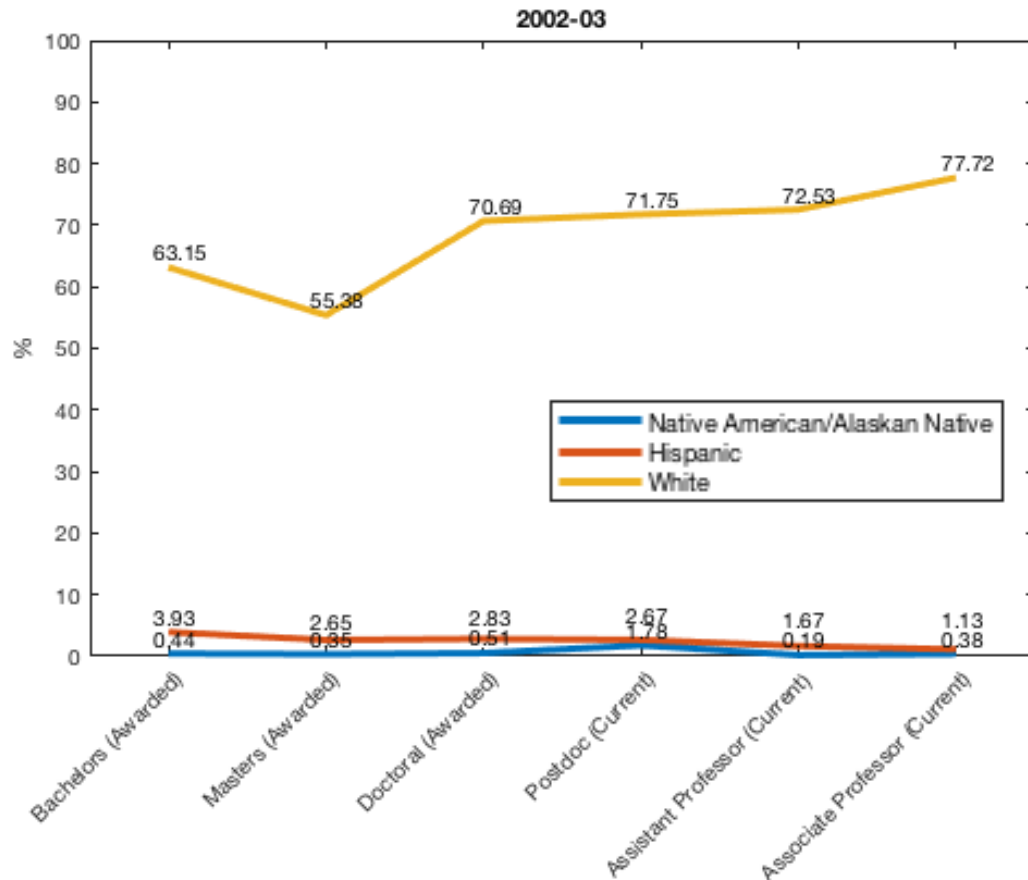
Degree data from Taulbee Survey, Computing Research Association
Hispanic population data from the Pew Research Center
Native American population data from the US Census



CS Career Pipeline

15 Years Ago

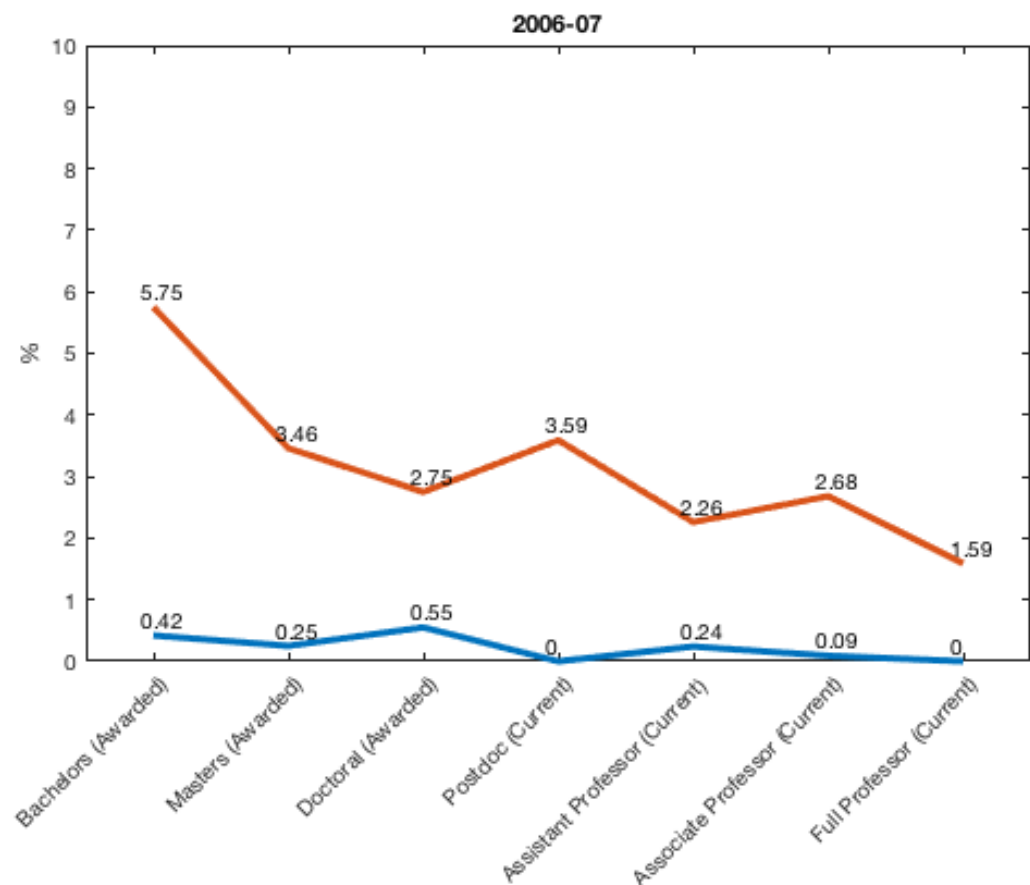
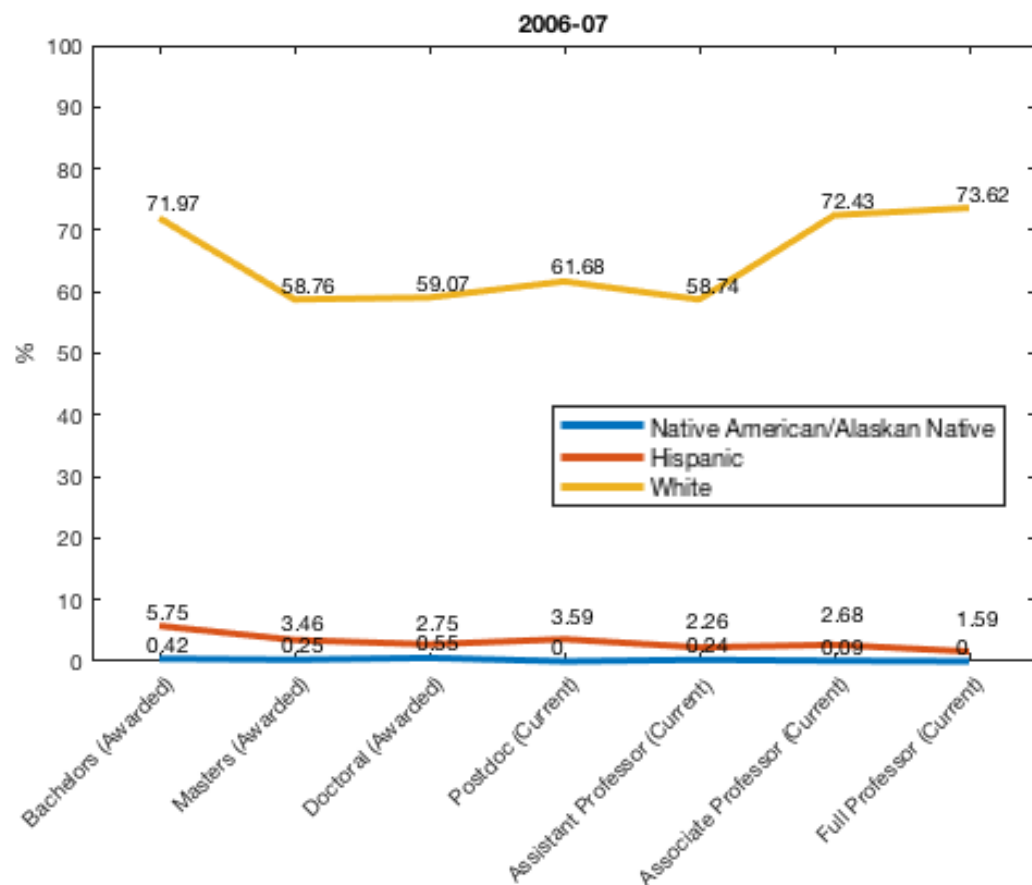
Data from Taulbee Survey, Computing Research Association



CS Career Pipeline

10 Years Ago

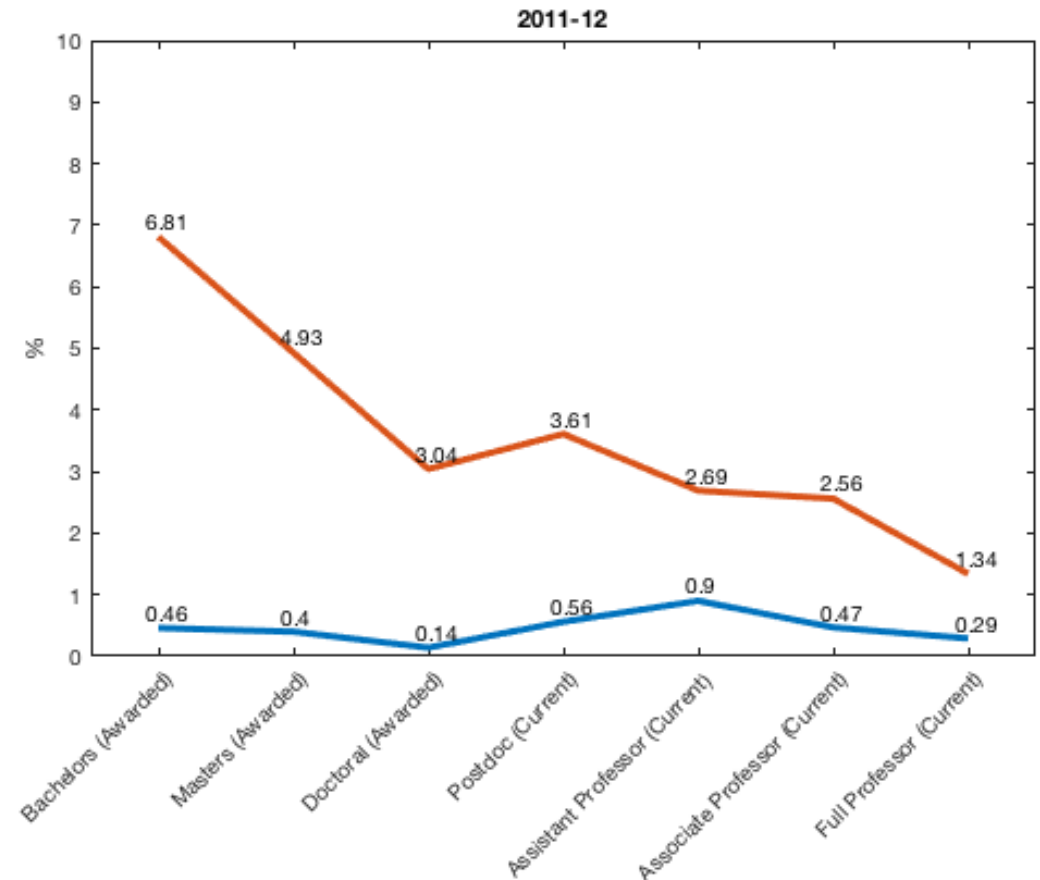
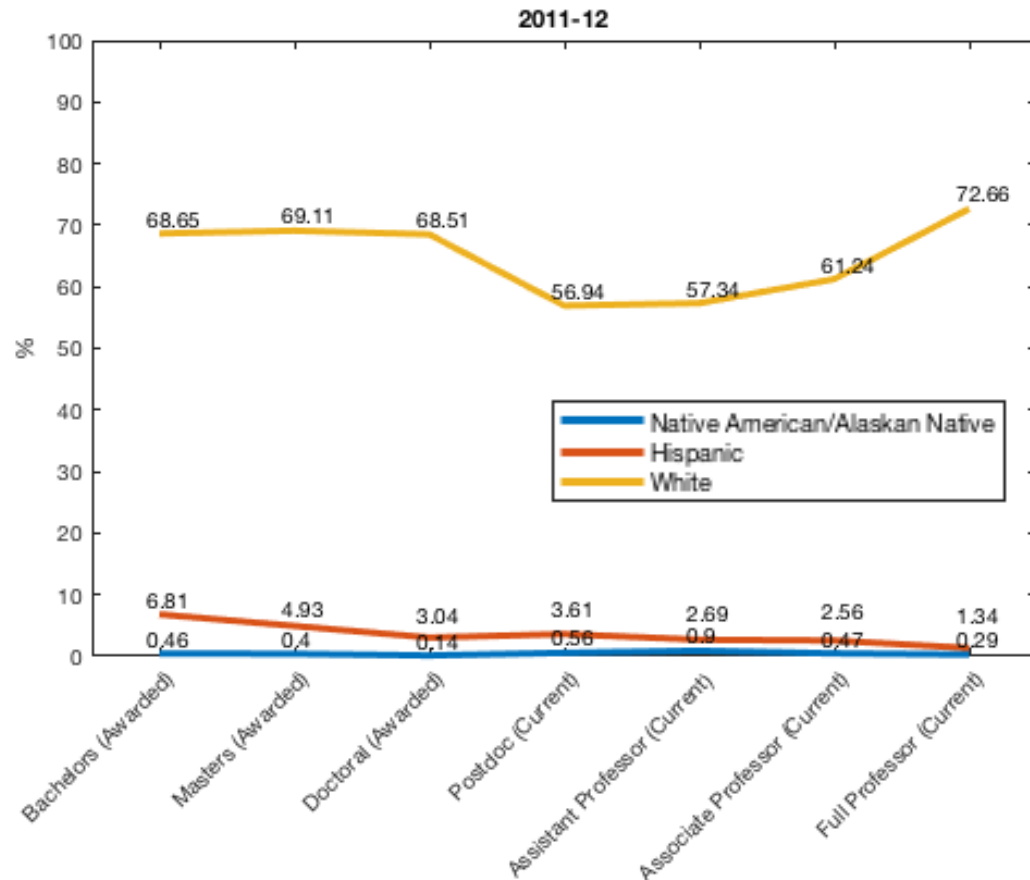
Data from Taulbee Survey, Computing Research Association



CS Career Pipeline

5 Years Ago

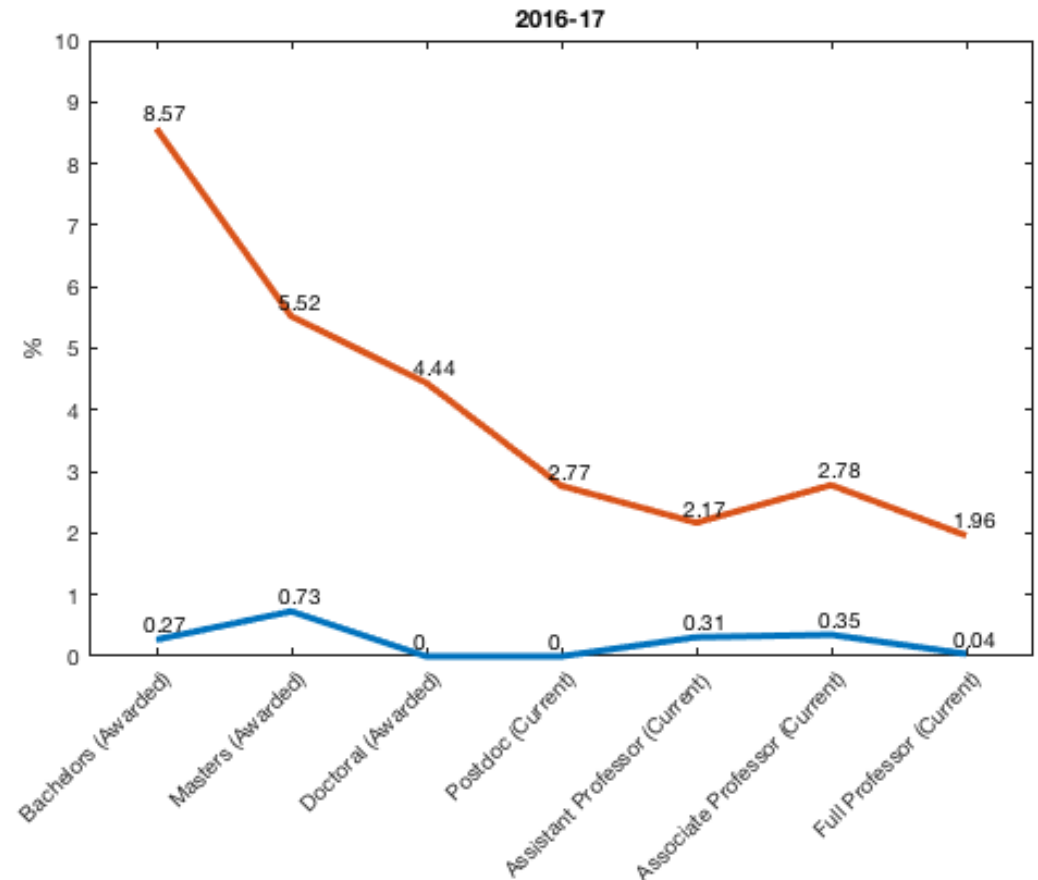
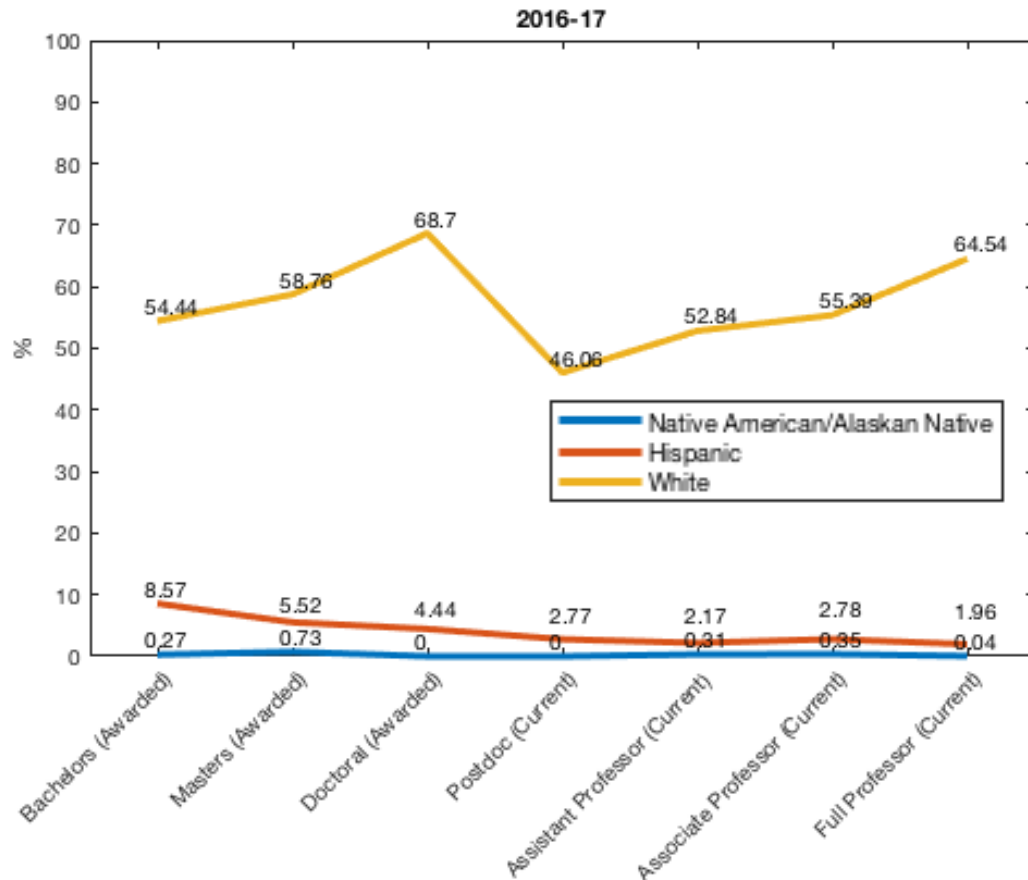
Data from Taulbee Survey, Computing Research Association



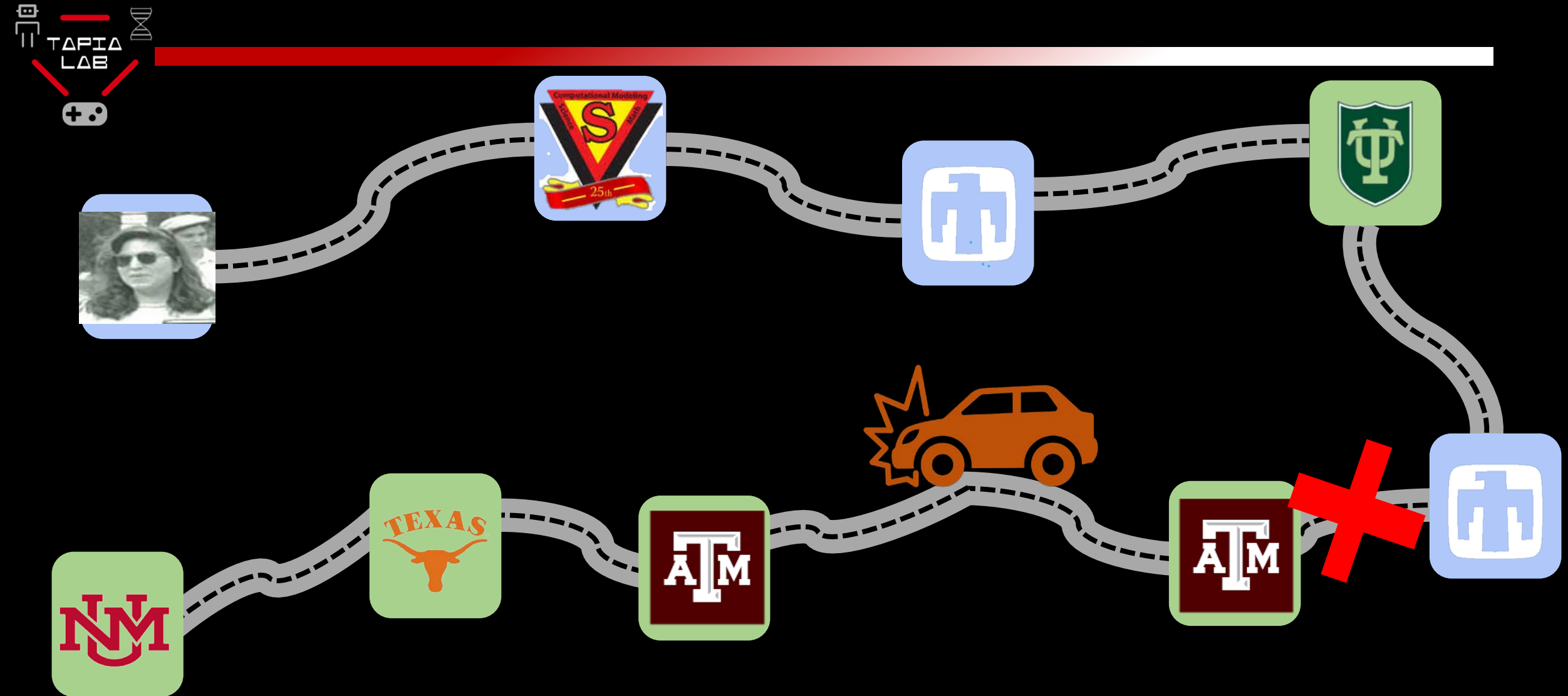
CS Career Pipeline

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

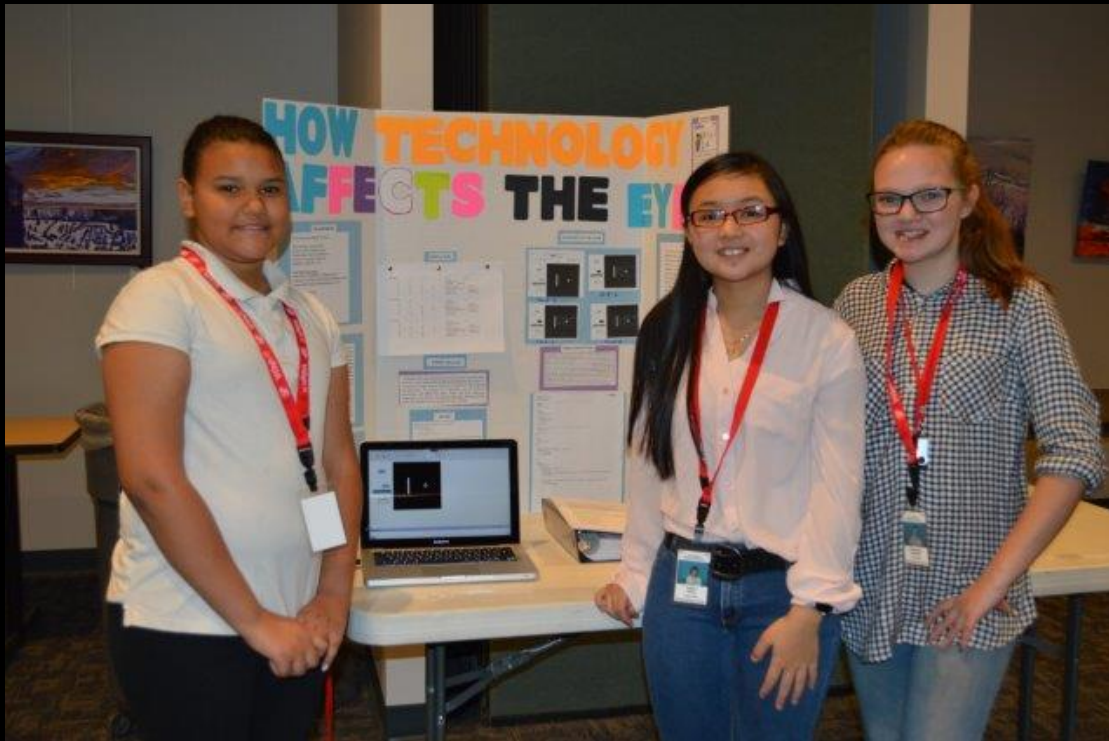
Undergrad

MS

PhD

Faculty

K-12



NM Supercomputing Challenge



Tapia Lab Demos

K-12



NM CS4All

Programs that Make a Difference



K-12

Undergrad

MS

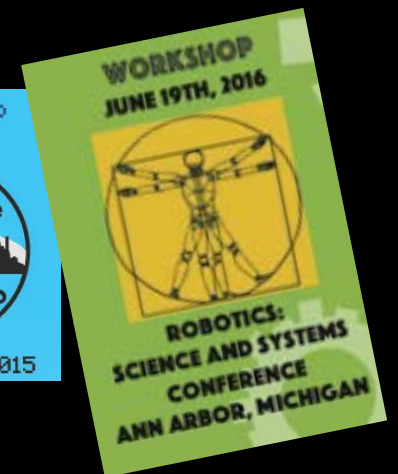
PhD

Faculty

Undergraduate



NASA Swarmathon



Robot Guru

Programs that Make a Difference



K-12

Undergrad

MS

PhD

Faculty

Graduate



CRA-W Grad Cohort
URMD



Programs that Make a Difference



Faculty



mentors

mentors

mentors

Proposal
writing
workshops

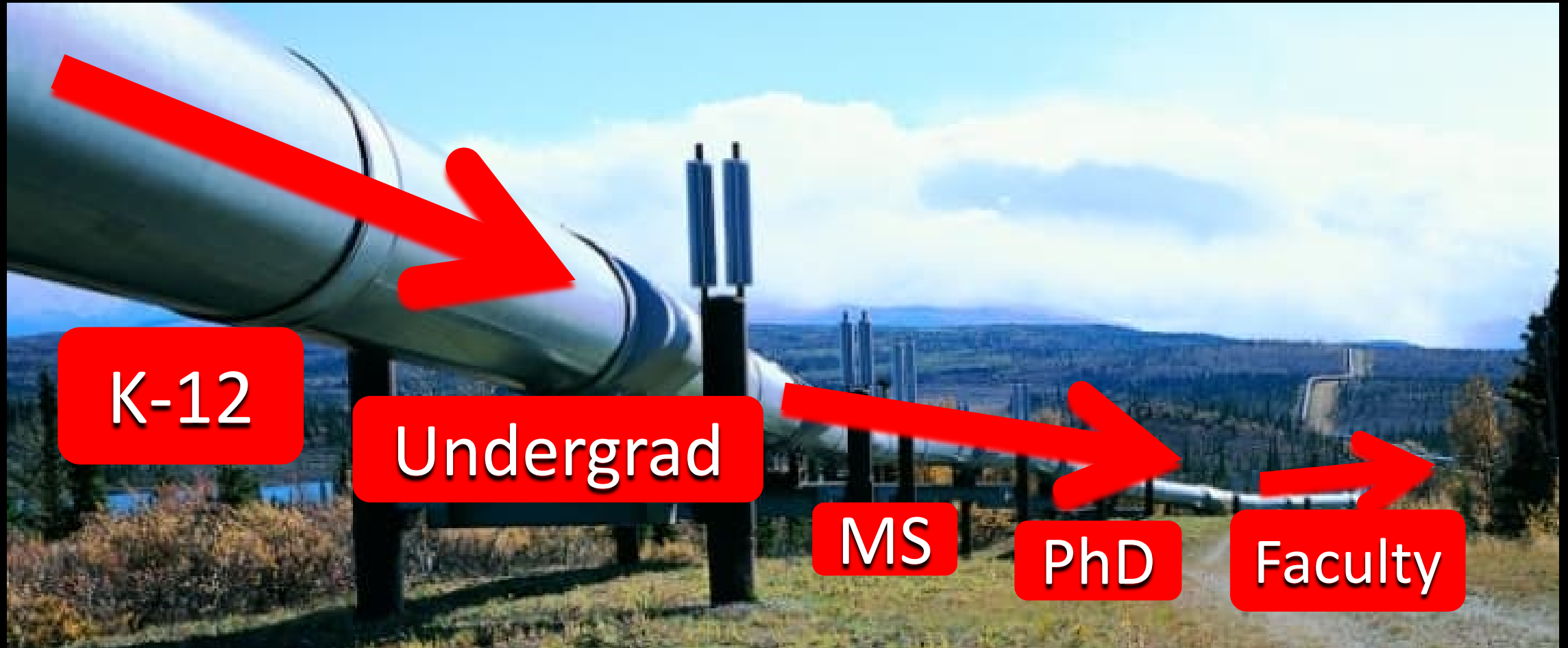
Career
Mentoring
Workshops

mentors

mentors

mentors

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

