

Welcome to the National Girls Collaborative Project National Mentoring Month Webinar

Strategies for Mentoring Girls in STEM

January 24, 2019



Agenda

- NGCP Vision and Goals
- AIA: Equity, Access, and Mentoring
- Girls Advisory Board: Mentoring Impacts
- FabFems Overview
- Questions
- Closing

NGCP Vision

The National Girls Collaborative Project (NGCP) **brings together organizations** that are committed to informing and encouraging girls to pursue careers in science, technology, engineering, and mathematics (STEM).

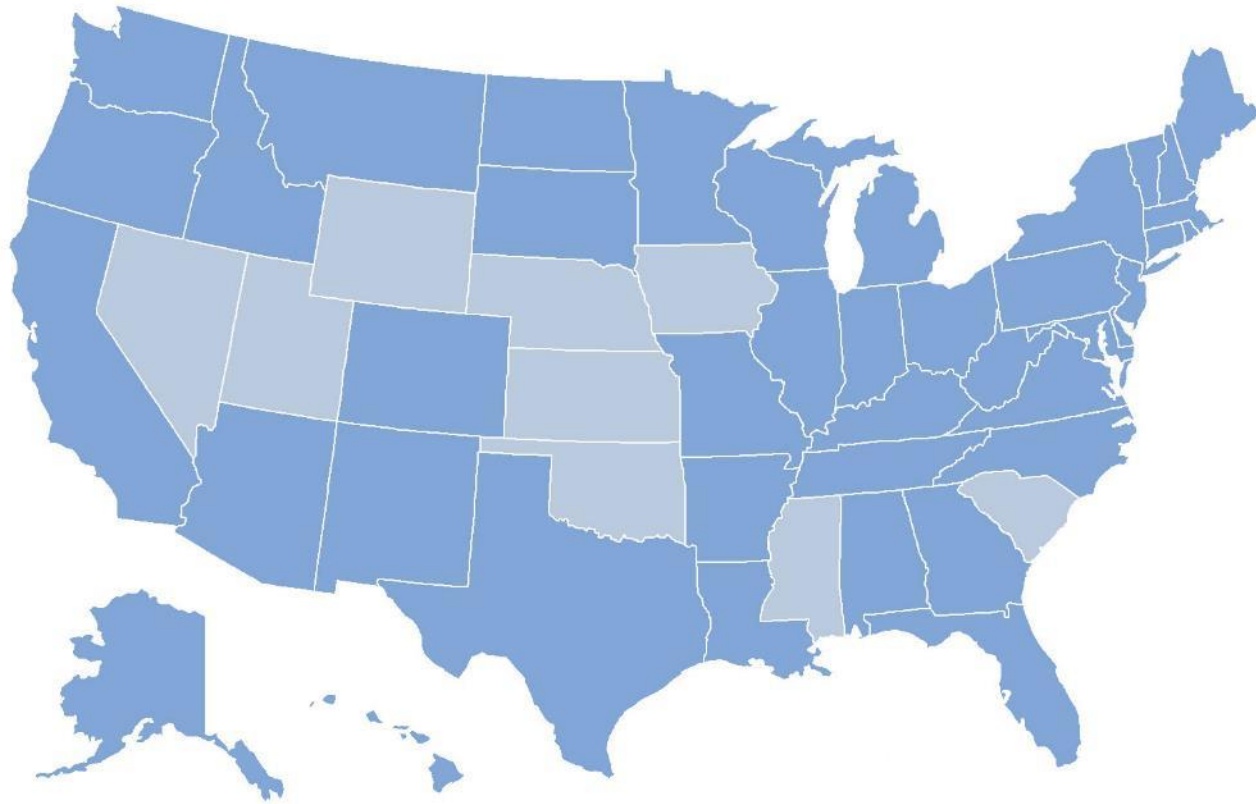


NGCP Goals



1. **Maximize access** to shared resources within organizations interested in engaging girls in STEM.
2. **Strengthen the capacity** of programs by sharing exemplary practice research and program models.
3. **Use the leverage of a network** to achieve gender equity in STEM.

National Network of Collaborative Teams



- States with a Local Collaborative
- Collaborative Coming Soon



American Institute of Architects



Rosa Sheng

Principal, Architect, SmithGroup
AIA San Francisco President 2018



Rosa Sheng,
FAIA
Principal, Architect
SmithGroup
San Francisco, Ca

“Fail Fast, Fail Often,
Let failure be your FUEL,
Not Your FEAR. You can
Fail in the Moment and
NOT be a Failure in Life”

**National Girls Collaborative -
Mentorship**

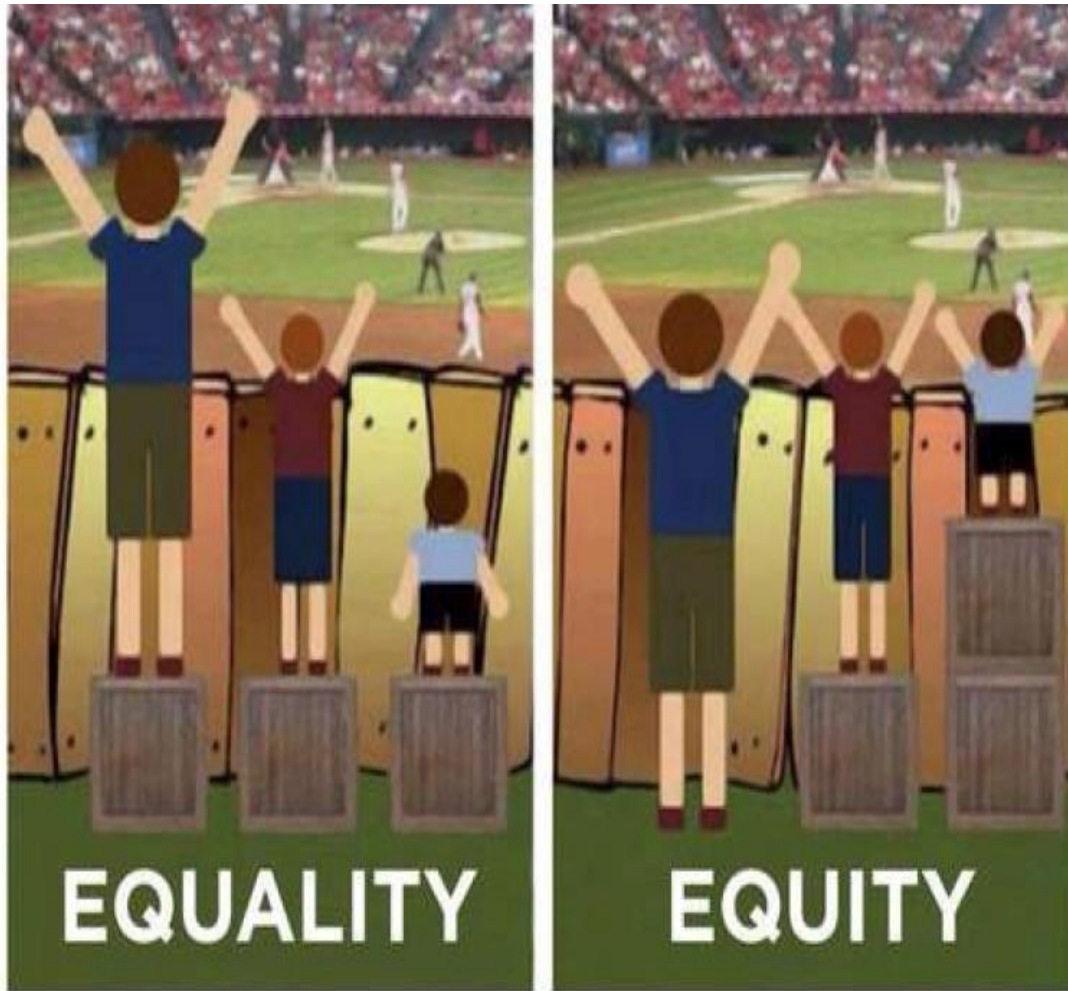
OUR VALUES AND CULTURE



SMITHGROUP AWARDS FIRST ANNUAL EQUITY, DIVERSITY AND INCLUSION SCHOLARSHIPS



Why Equity Matters



MEME CREDIT - CRAIG FROEHLE

Why Equity Matters



MEME CREDIT - I LOVE LUCY

Why Equity Matters for Everyone



WHY EQUITY MATTERS:

A NEW VALUE PROPOSITION FOR STUDENT SUCCESS

California Community Colleges
Student Food and Housing Insecurity Statistics

IT'S EXPENSIVE TO LIVE IN CALIFORNIA . . .

<p style="font-size: 2em; font-weight: bold; text-align: center;">43%</p> <p>of the total cost of a community college education is spent on housing and 30% of students are solely responsible for their housing costs.</p>	<p style="text-align: center;">In recent years...</p> <p style="font-size: 2em; font-weight: bold; text-align: center;">25%</p> <p>of California community college students experienced homelessness.</p>
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AND THE STEREOTYPE OF THE "STARVING STUDENT" IS A REALITY FOR HUNDREDS OF THOUSANDS OF CCC STUDENTS

<p>2 in 5 California community college students struggled with low food security.</p>	<p style="font-size: 2em; font-weight: bold; text-align: center;">?</p> <p><i>"Food insecure students, in particular, were more likely to indicate intention to drop out, and were much less likely to feel confident in their academic abilities."</i></p>
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*From "College Ready, Hungry, and Homeless," CA Assembly Speaker's Office of Research and Floor Analysis



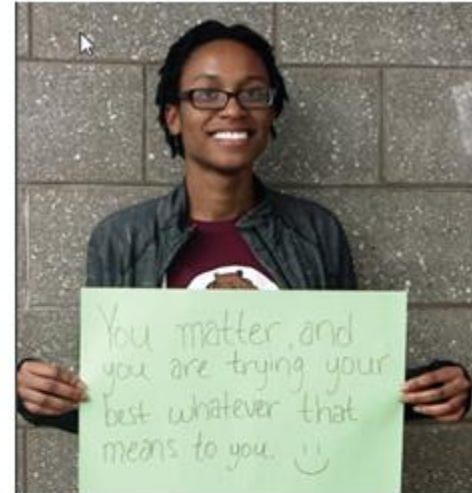
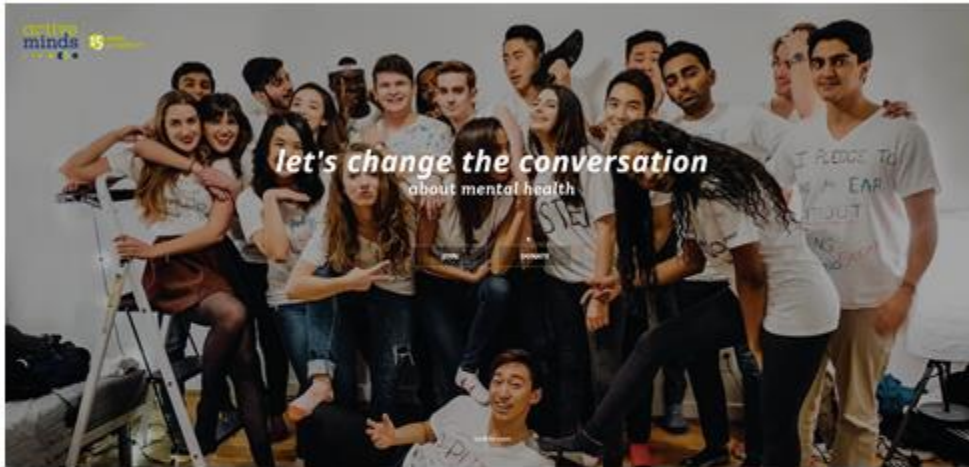
Statistics of Campus Sexual Assault

<p>1 in 5 women will be sexually assaulted during their college career.</p>	<p style="font-size: 1.5em; font-weight: bold;">95%</p> <p>of assaults go unreported</p>
<p>1 in 13 men will be sexually assaulted during their college career.</p>	
<p>8 in 10 survivors knew the attacker.</p>	<p>Every 21 hours someone is raped on an American college campus</p>

Source: CDC, 2010-2011

WHY EQUITY MATTERS:

A NEW VALUE PROPOSITION FOR STUDENT SUCCESS



mental health issues are prevalent among young adults

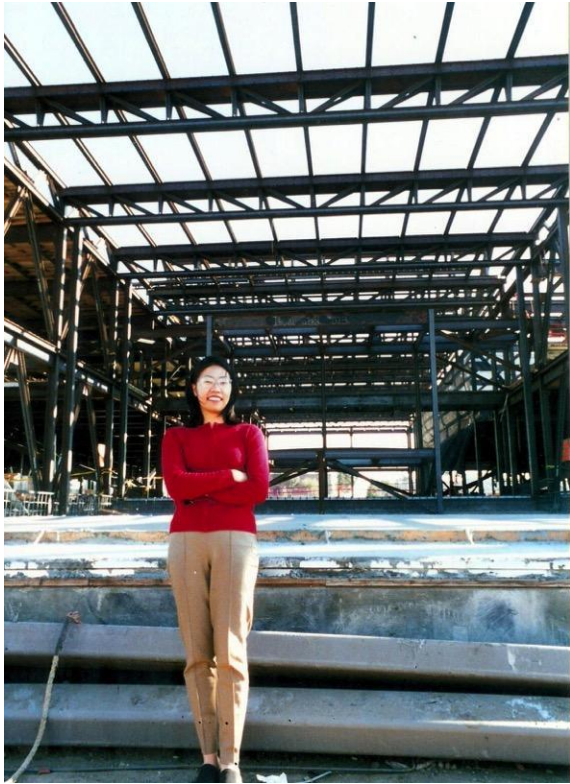
Sometimes referred to as the "anxious generation," today's young people are actually much more likely to talk about mental health than their parents or grandparents. This generation is closer than ever to breaking the stigma around mental illness in a time when only 44 percent of adults—and less than 20 percent of children and adolescents—with diagnosable mental health problems receive the treatment they need.



mental illness is treatable and suicide is preventable

Even so, many suffer in silence. Active Minds is changing that.

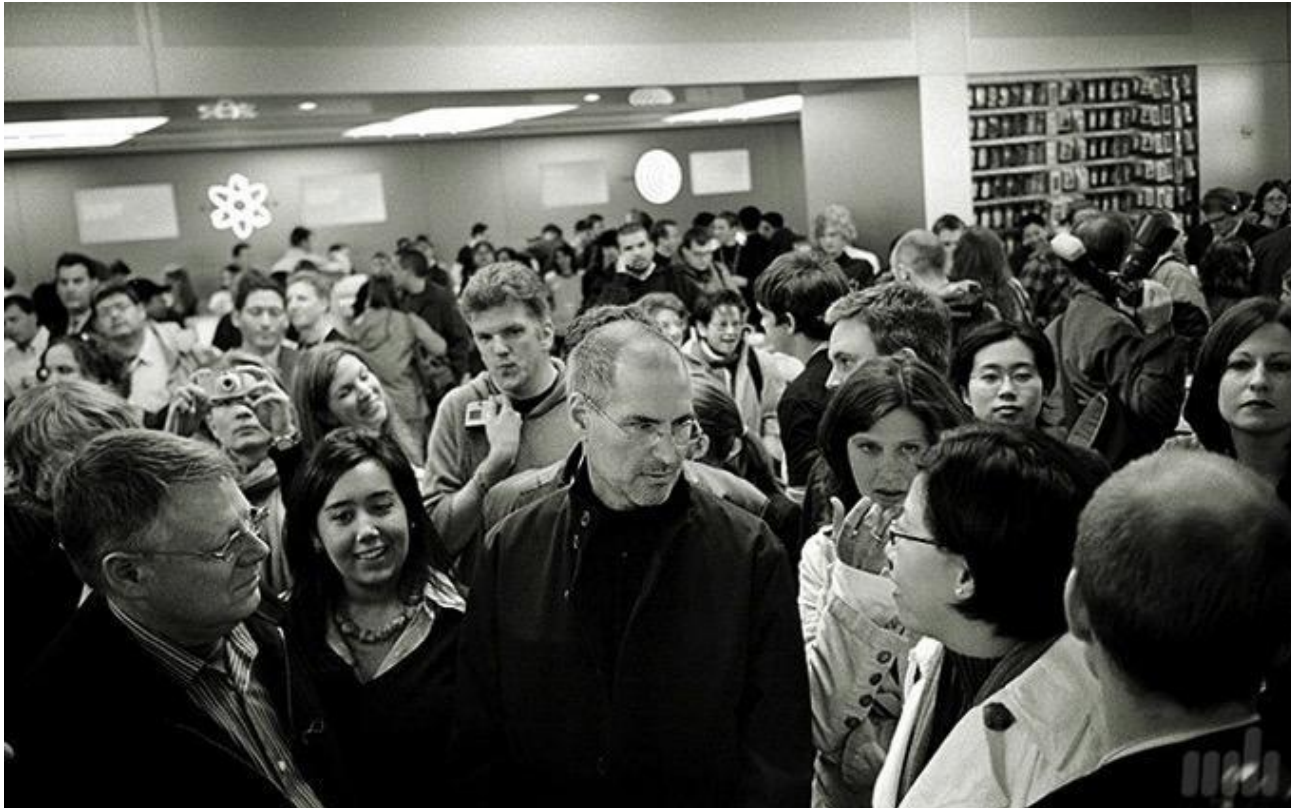


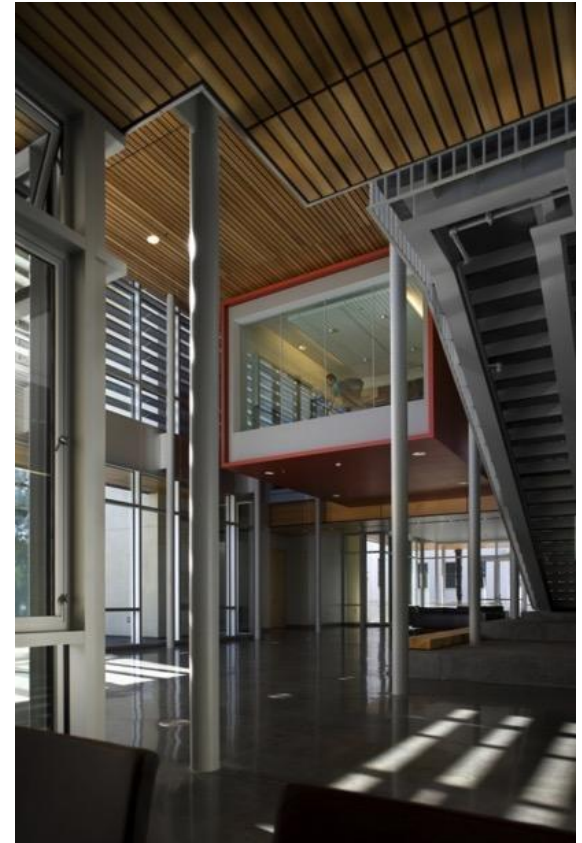














*"We all grapple with the paradox that tomorrow is not promised, **but we make plans anyway**"*

-Lin Manuel Miranda

Architecture, Equity, and Feminism's Third Wave



DESPINA STRATIGAKOS, KELLY-HAYES McALONIE



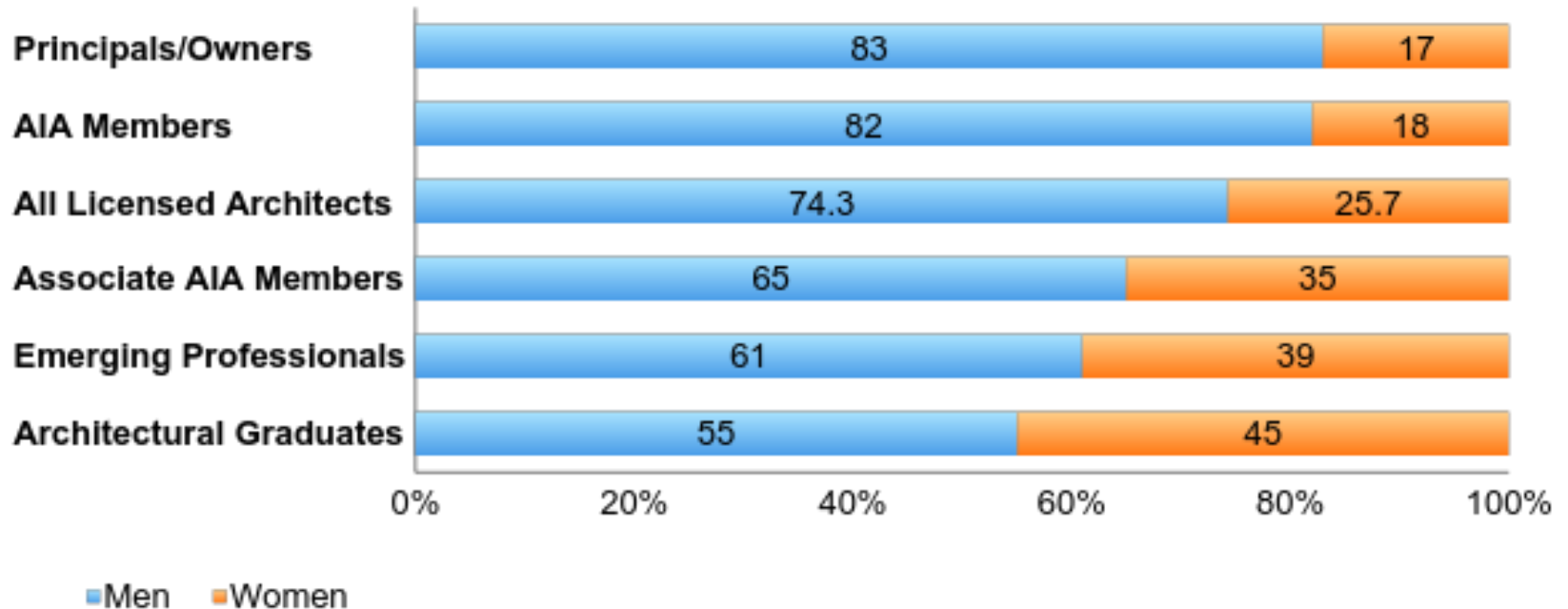
JUSTINE CLARKE AND LORI BROWN



CAROLINE JAMES, DENISE SCOTT BROWN, ARIELLE ASOULINE - LICHTEN



Who is at the Table? - Architects



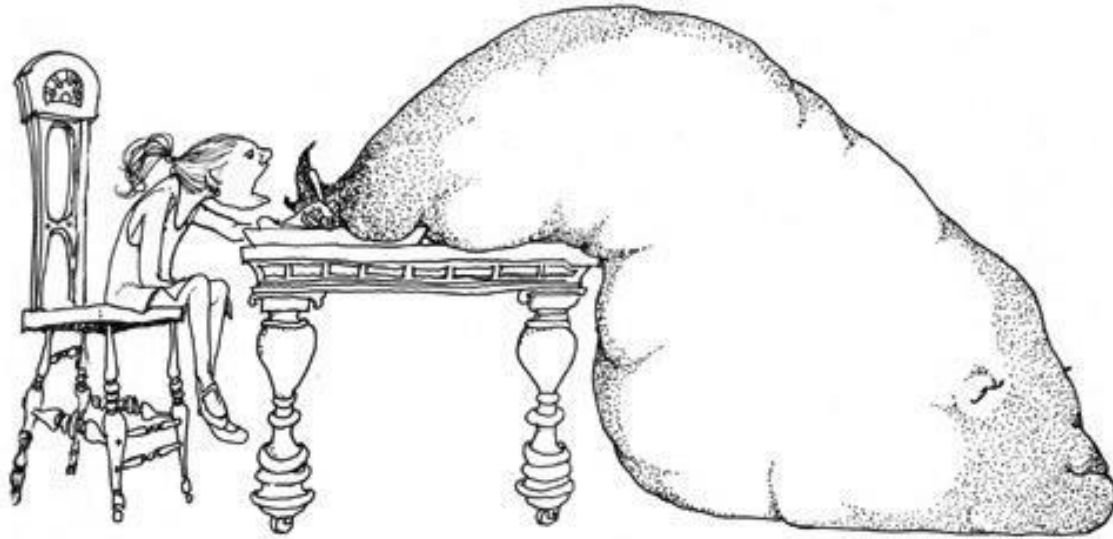
Sources: National Architectural Accrediting Board, National Council of Architectural Registration, AIA National, and US Bureau of Labor and Statistics



Equity by Design:
Metrics, Meaning & Matrices

How to Eat a Whale?

Biting off more than one could
chew, (or Not)



MELINDA MAE, BY SHEL
SILVERSTEIN,
WHERE THE SIDEWALK ENDS

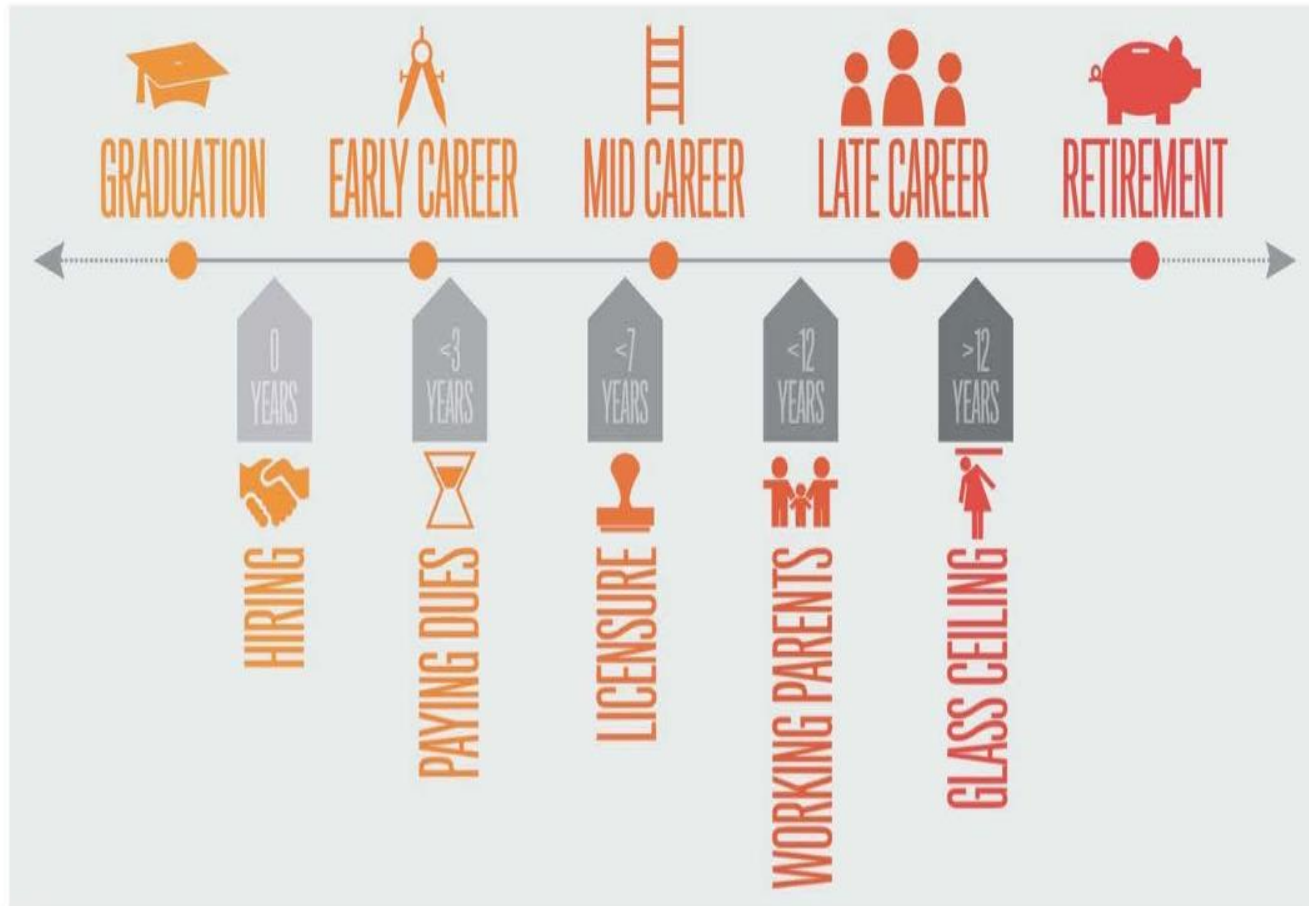
How to Eat a Whale?

Small bites, more people, and
bigger forks!

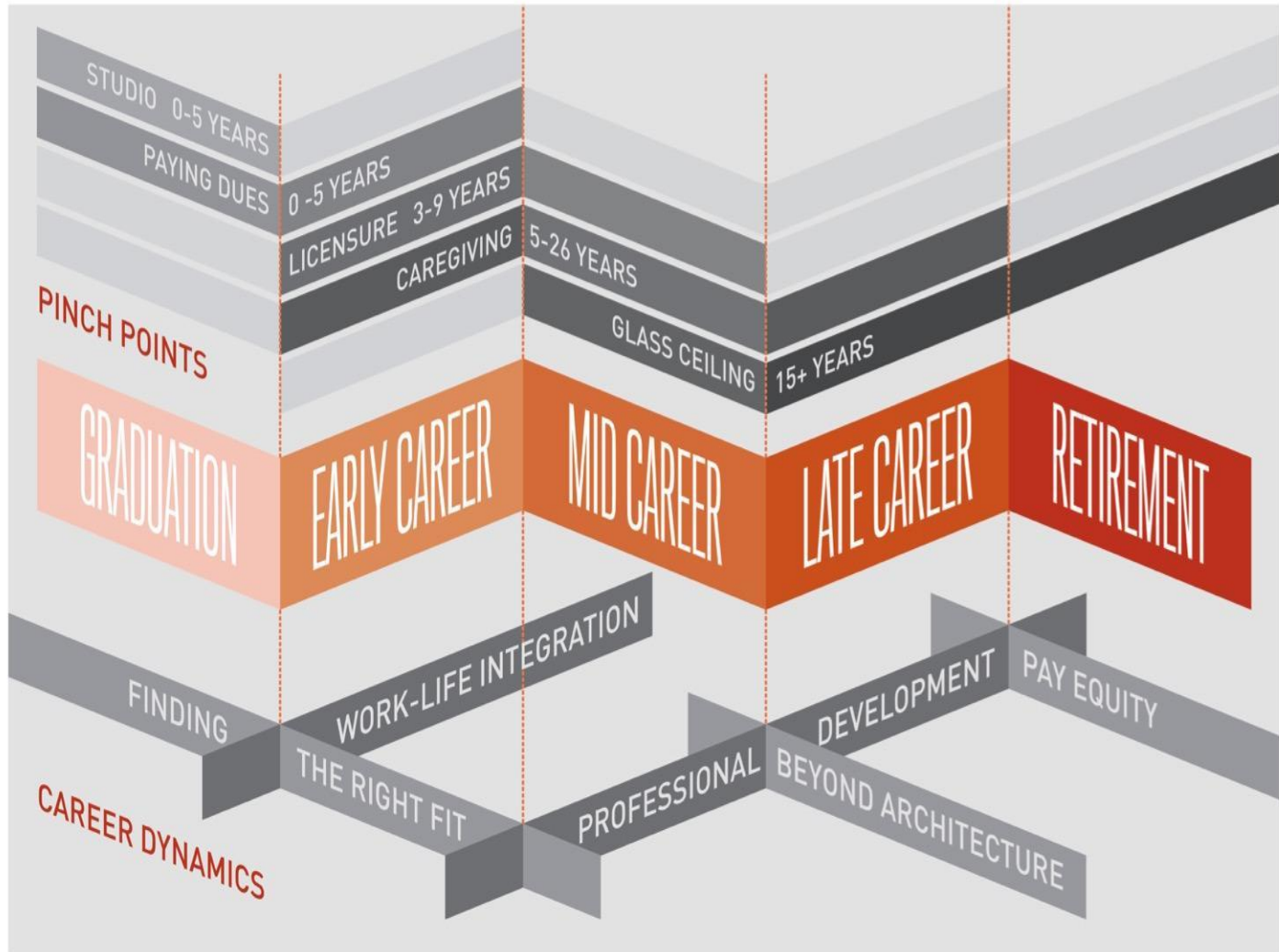


MELINDA MAE, BY SHEL
SILVERSTEIN,
WHERE THE SIDEWALK ENDS

LIFE OF AN ARCHITECT: CAREER PINCH POINTS



LIFE OF AN ARCHITECT



PAY EQUITY: AVERAGE SALARY BY PROJECT ROLE



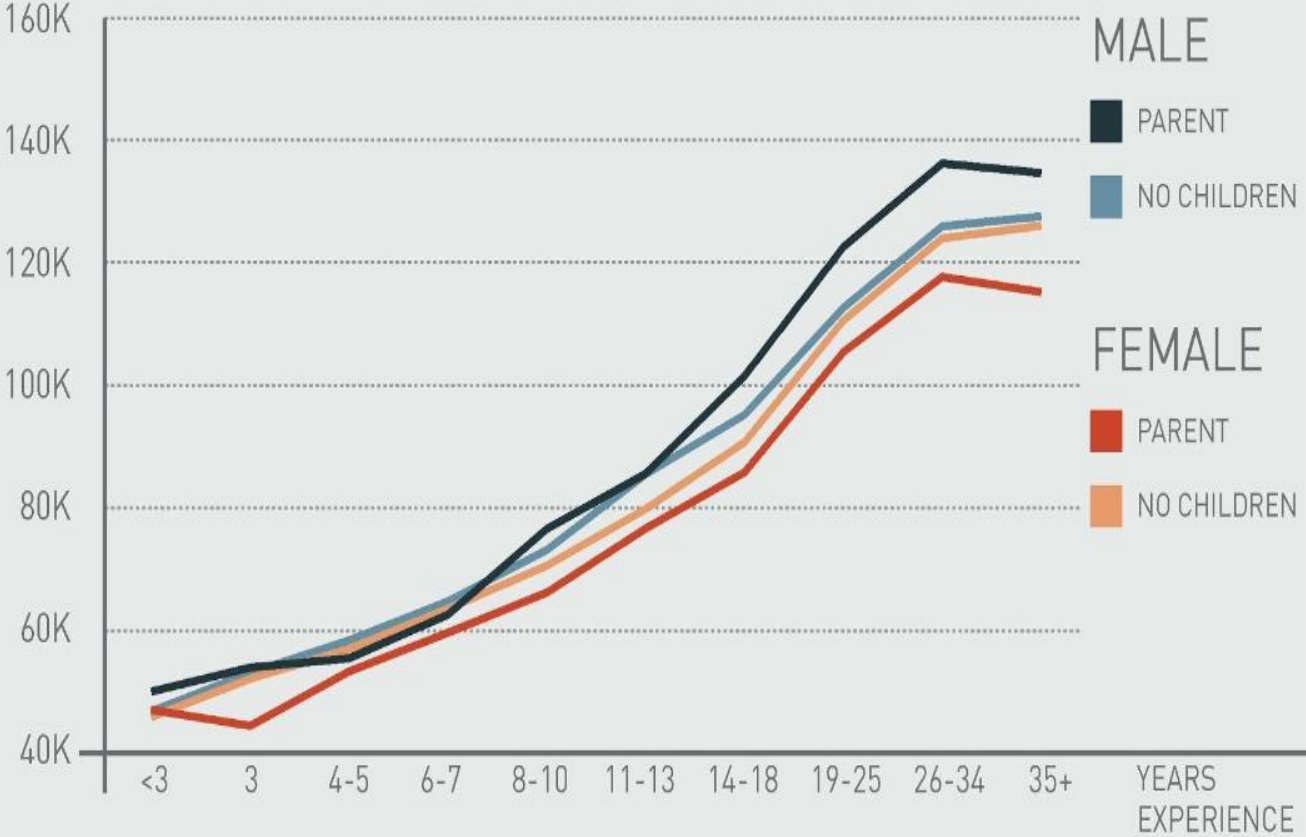
Equity by Design:
Metrics, Meaning & Matrices

The Creativity Bias



Equity by Design:
Metrics, Meaning & Matrices

AVERAGE SALARY BY CAREGIVER STATUS



Equity by Design: Metrics, Meaning & Matrices



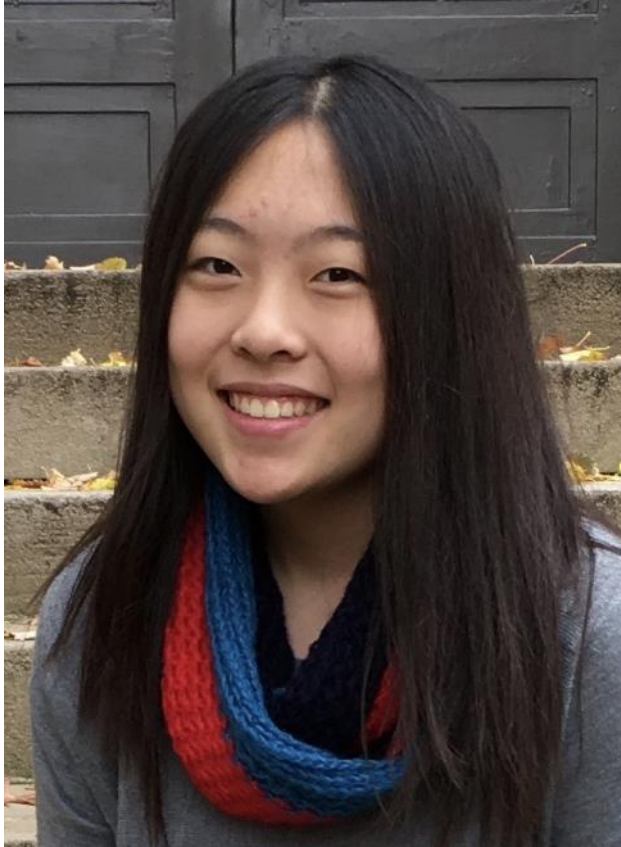
FROM ADVOCATE TO ACTIVISM



#EQxDV : Voices, Values, Vision Saturday - 11/3/18



Girls Advisory Board



Helen P.

High School Senior
Kentucky

About Me

High School Senior

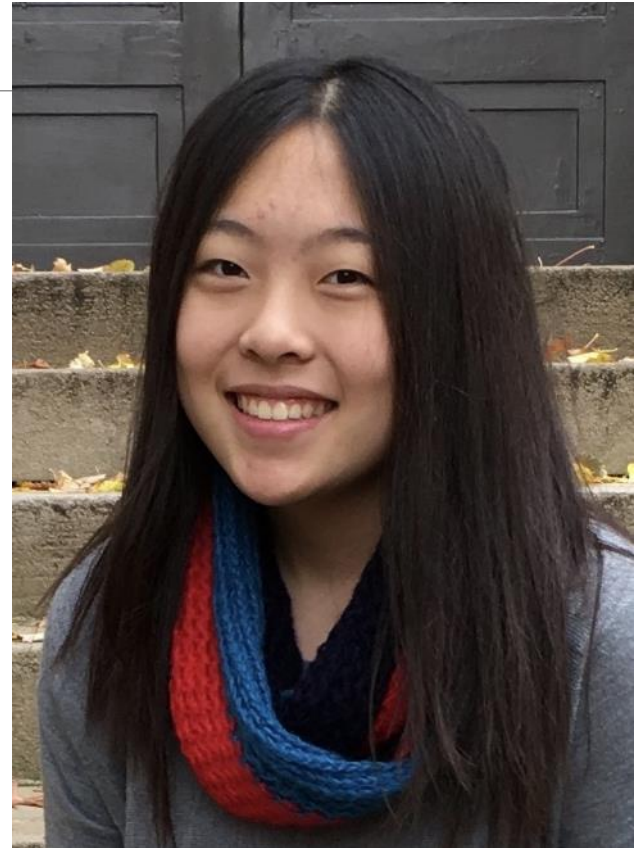
- Princeton University

STEM

- Competition math & coding
- Developer at Tech Startup
- Organic Chemistry Research

Outside of STEM

- Piano/Cello/Guitar/Choir
- Videography



My Experience As a Mentee

STEM Mentors are Male-Dominated

- Dad
- Professor: Research Mentor

My Experience As a Mentee

FabFems

KGSC Teen Board

- Rosemary Fama
- Czarena Crofcheck

NGCP Girls Advisory Board

- Erin Hogeboom

My Experience As a Mentor

Dunbar Girls in STEM

- Founder & President
- STEMFems Outreach Program
 - Free
 - Coding Classes, STEM workshops, Science Fair Clinics, etc.

My Experience As a Mentor

KGSC Teen Board

- Chair
- Lexington STEM You Can! Camp Director

Importance of Mentoring

Resources & Connections

Role Model Figure

Assurance & Encouragement

Role Model Directory:

FabFems is an international, online, searchable directory of women STEM professionals interested in outreach to girls

Audience:

- Role Models
- Girl-Serving Programs
- Parents and Girls





Questions?

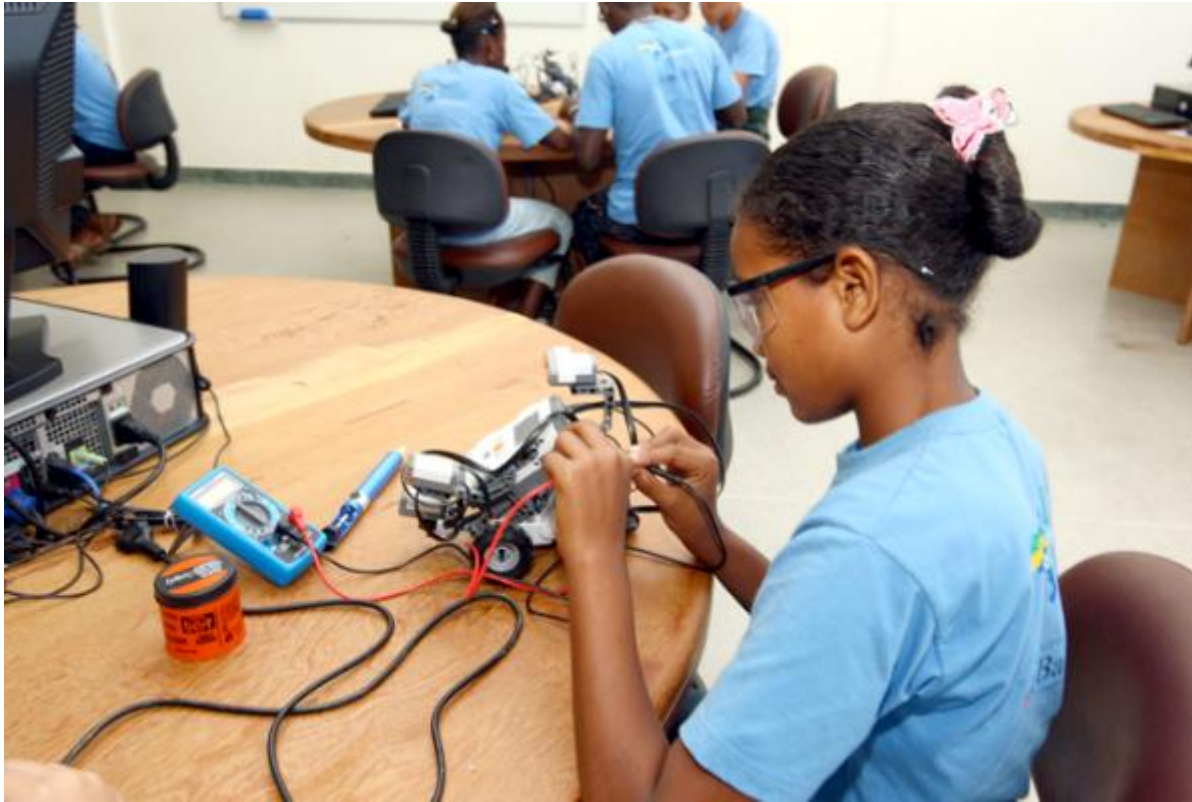


Discussion

What impacts and strategies do you use to engage girls in STEM?

Questions? Thoughts?

Thank you for joining us today!



NATIONAL GIRLS COLLABORATIVE PROJECT