Welcome!
Grab some coffee + snacks!

UC Berkeley Expanding Your Horizons
Parent’s Program March 9, 2019
This Year’s Panelists:

**College Prep**
- Ashley Allston – College Track tutoring program
- Ginnie Sadil – UC Berkeley Adviser and Outreach Adviser
- Quincy Jones – UC Berkeley Admissions

**STEM Activities**
- Lucy Jiang, James Park - youSTEM
- Rachel Walsh - Lawrence Hall of Sciences
- Sia Boima - Camp EDMO
- Jennifer Gaspar-Santos - Girls Who Code

**Paying for College**
- Gabrielle Turner – UC Berkeley Financial Aid Office
- Alicia Hayes – Prestigious Scholarships Manager UC Berkeley
Panel Locations:

HFA B5 (not B2) – College Prep
HFA B1  – STEM Activities
HFA A1 – Paying for College

1) College Prep  1) STEM Activities  1) Paying for College
2) STEM Activities  2) Paying for College  2) College Prep
3) Paying for College  3) College Prep  3) STEM Activities
What is STEM?

ANYONE can be a scientist:

Quote from Study of STEM fields:

“We have been researching issues of gender and STEM for more than 25 years, and we can say flatly that there is no evidence that women’s biology makes them incapable of performing at the highest levels in any STEM fields.”

Women filled 47% of all U.S. jobs in 2015 but held only 24% of STEM jobs.

We need diversity (of all forms) in STEM:

Companies with more diversity are better performers, and innovation thrives where diversity in the workforce is celebrated.

Women make up only about 30% of all STEM degree holders.
Planning Committee Introductions:

Charlott Vallon
Mechanical Engineering

San Diego
Berkeley: B.S.
Zurich: M.S.
Berkeley: Ph.D.

What I wish I’d known:

STEM ≠
Mechanical engineering ≠
Planning Committee Introductions:

What do control engineers do?

- Physics
- Psychology
- Machine learning
- Data collection
- Sensor integration
- Make things safe
Planning Committee Introductions:

Jasmine Graham

Hometown: Cypress, CA

AP classes
Community College
Science outreach
Summer research intern

B.S. Bioengineering

Research scholarships
Stipend for research job

Ph.D. Student Bioengineering

Free Tuition
Paid Stipend
Classes/Research
Planning Committee Introductions:
What do Bioengineers Do?

ENGINEERING DESIGN PROCESS

IDENTIFY THE PROBLEM
RESEARCH & BRAINSTORM
BUILD
TEST
IMPROVE
PRESENT SOLUTIONS

UC Berkeley Expanding Your Horizons
Parent’s Program March 9, 2019
Planning Committee Introductions:

Lauren Cox

Hometown: Florence, Alabama

B.S. Environmental Science
M.S. Geography

Ph.D. Student Environmental Science, Policy, & Management
Planning Committee Introductions:
What do Foresters Do?
Planning Committee Introductions:

Shanna Hays

Hometown: Tucson, Arizona

B.S. Mechanical Engineering
M.S. Material Science and Engineering

Ph.D. Student Mechanical Engineering

UC Berkeley Expanding Your Horizons Parent’s Program March 17, 2018
Planning Committee Introductions:
What do Mechanical Engineers Do?
Planning Committee Introductions:

Jeannie Wilkening

Hometown: Tucson, Arizona

AP Courses
Academic Decathlon
Science Olympiad Orchestra

BS Chemical Engineering
National Merit & Private Scholarships (Tuition + stipend)

MPhil Earth Sciences
Churchill Scholarship (Tuition + stipend)

PhD Student Environmental Engineering
NSF Graduate Fellowship (Tuition + stipend)

UC Berkeley Expanding Your Horizons Parent’s Program March 9, 2019
Planning Committee Introductions:

What do hydrologists do?

- Field studies
- Computer modeling
- Water cycle
  - Managing water resources
  - Reducing flood risk
  - Drought impacts

UC Berkeley Expanding Your Horizons
Parent’s Program March 9, 2019
Planning Committee Introductions:

Katerina Tsou

Hometown: Hong Kong

B.S. Environmental Engineering

PhD student Environmental Engineering

Science Courses (Biology, Chemistry, Physics, and Calculus)

Undergraduate research experiences

NSF Graduate Fellowship (Tuition + stipend)

UC Berkeley Expanding Your Horizons Parent’s Program March 9, 2019
Planning Committee Introductions:
What is environmental engineering?

**Atmosphere**

**Water/Solids/Biology**

UC Berkeley Expanding Your Horizons
Parent’s Program March 9, 2019
Panel Locations:

HFA B5 (not B2) – College Prep
HFA B1 – STEM Activities
HFA A1 – Paying for College

1) College Prep 1) STEM Activities 1) Paying for College
2) STEM Activities 2) Paying for College 2) College Prep
3) Paying for College 3) College Prep 3) STEM Activities