

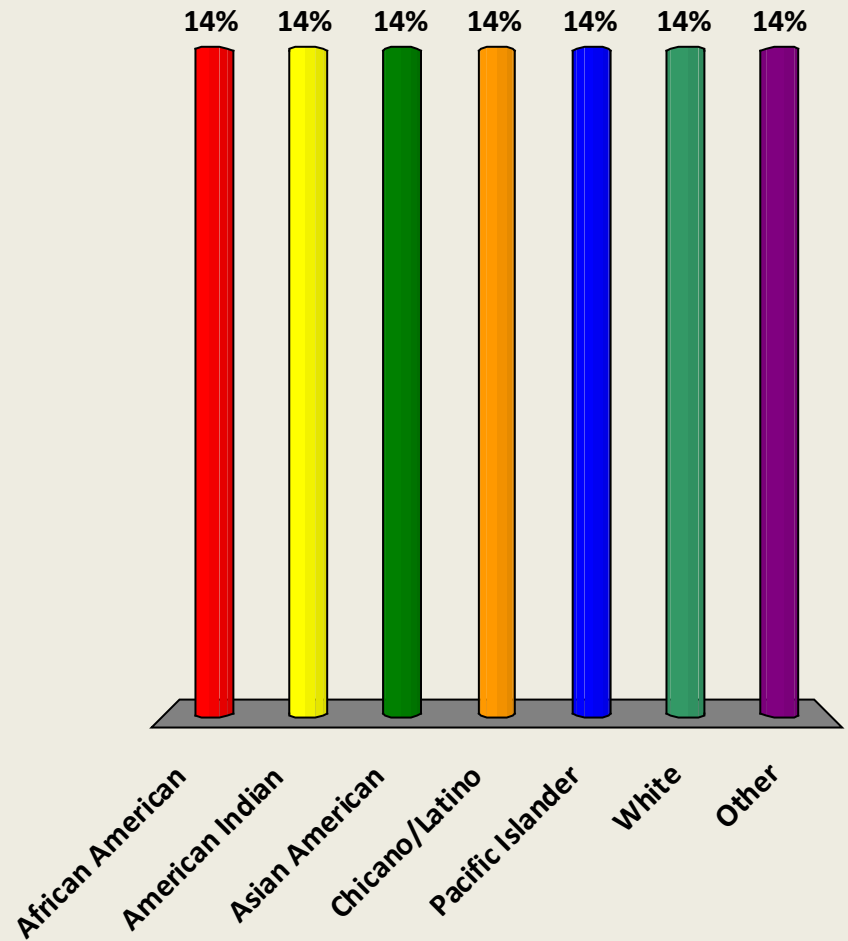
# Meeting the California Challenge: The University of California's Partnership to Advance Faculty Diversity in STEM

Keeping Our Faculty of Color Symposium  
April 15, 2013—University of Minnesota



Among the 99,000 California high school students applying for admission to UC for the fall of 2013, which racial/ethnic group had the largest number?

- A. African American
- B. American Indian
- C. Asian American
- ✓ D. Chicano/Latino
- E. Pacific Islander
- F. White
- G. Other





**Percentages:**

<b>African American</b>	<b>6.0%</b>
<b>American Indian</b>	<b>0.7%</b>
<b>Asian American</b>	<b>30.9%</b>
<b>Chicano/Latino</b>	<b>32.1%</b>
<b>Pacific Islander</b>	<b>0.4%</b>
<b>White</b>	<b>27.1%</b>
<b>Other</b>	<b>2.8%</b>

Source: ([http://www.ucop.edu/news/factsheets/2013/fall\\_2013\\_applications\\_table3.1.pdf](http://www.ucop.edu/news/factsheets/2013/fall_2013_applications_table3.1.pdf))

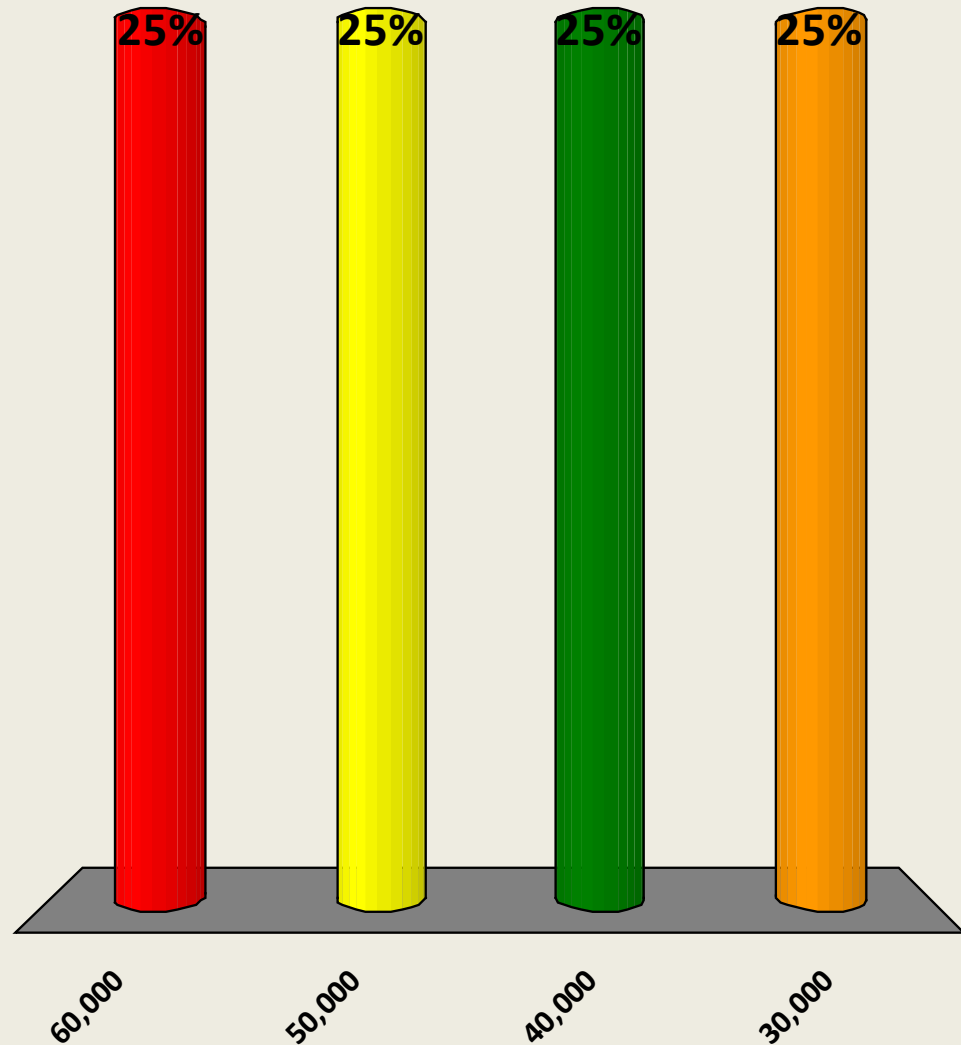
How many graduate and professional students are there at UC?

A. 60,000

✓ B. 50,000

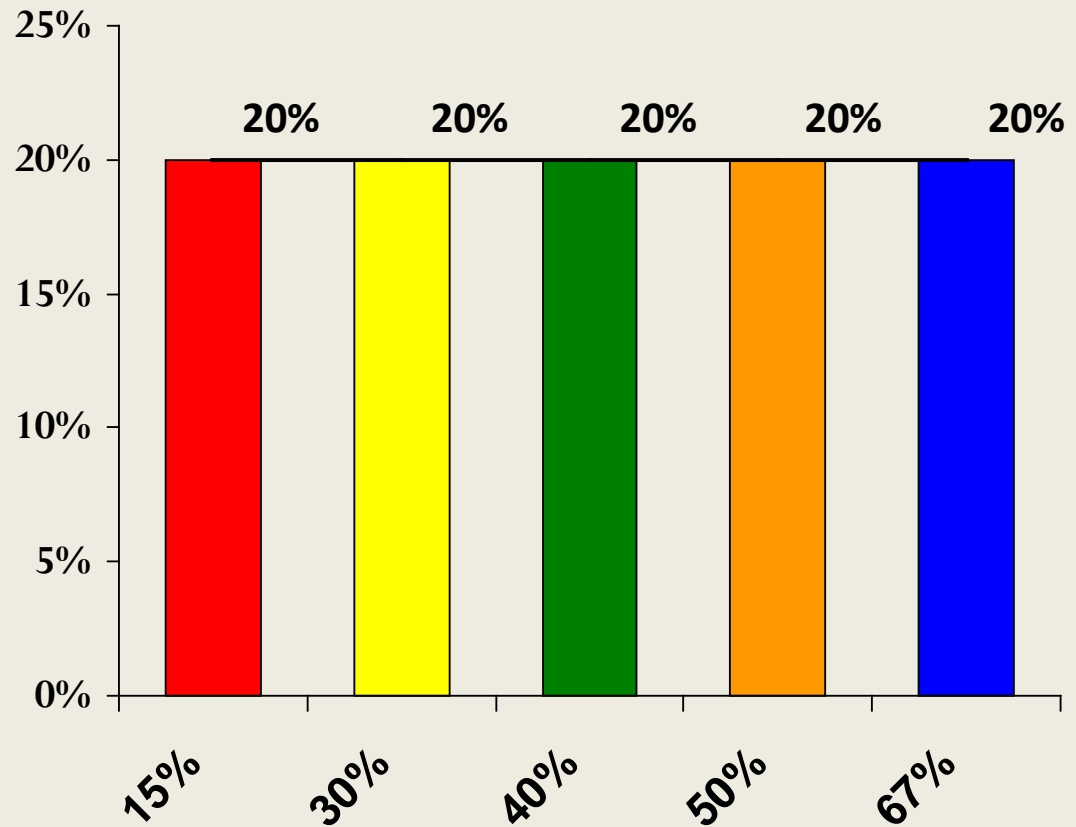
C. 40,000

D. 30,000



Among the 6,187 postdoctoral scholars at UC in fall 2012, what percentage are non-U.S. citizens?

- A. 15%
- B. 30%
- C. 40%
- D. 50%
- ✓ E. 67%



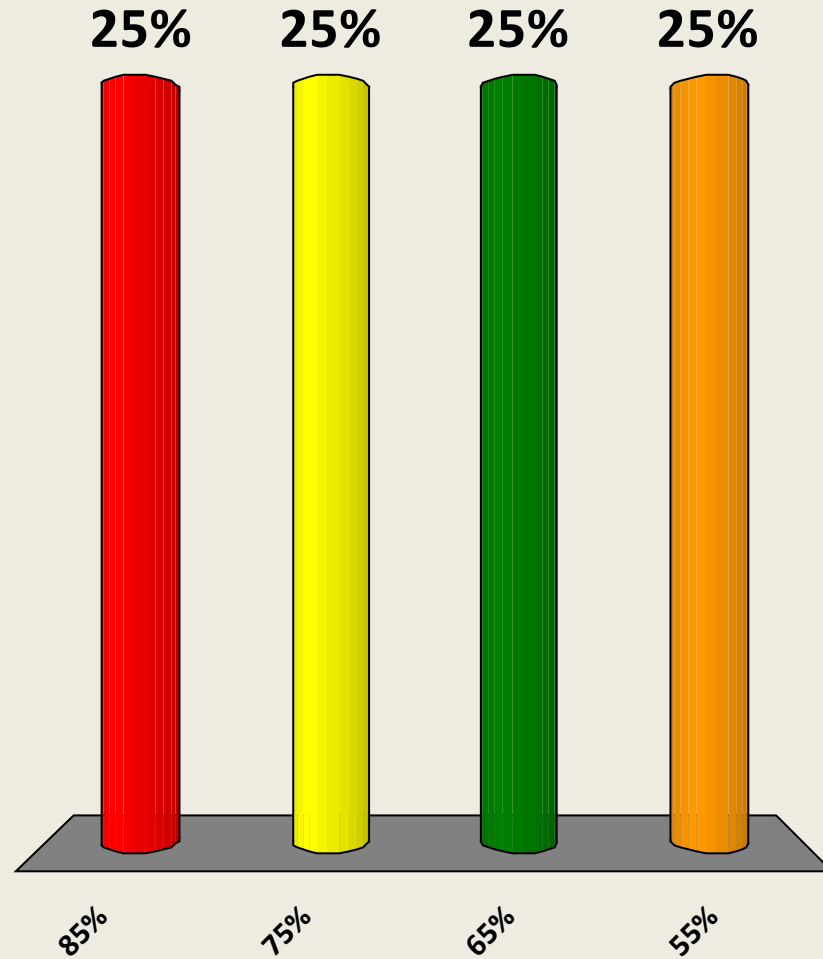
# What Percentage of Ladder-Rank Faculty at UC (They Number 9,500) Self-Identify as White?

A. 85%

✓ B. 75%

C. 65%

D. 55%



# UC ADVANCE PAID

Susan Carlson

Vice Provost, Academic Personnel, University of California  
Office of the President  
Professor of English, University of California Davis



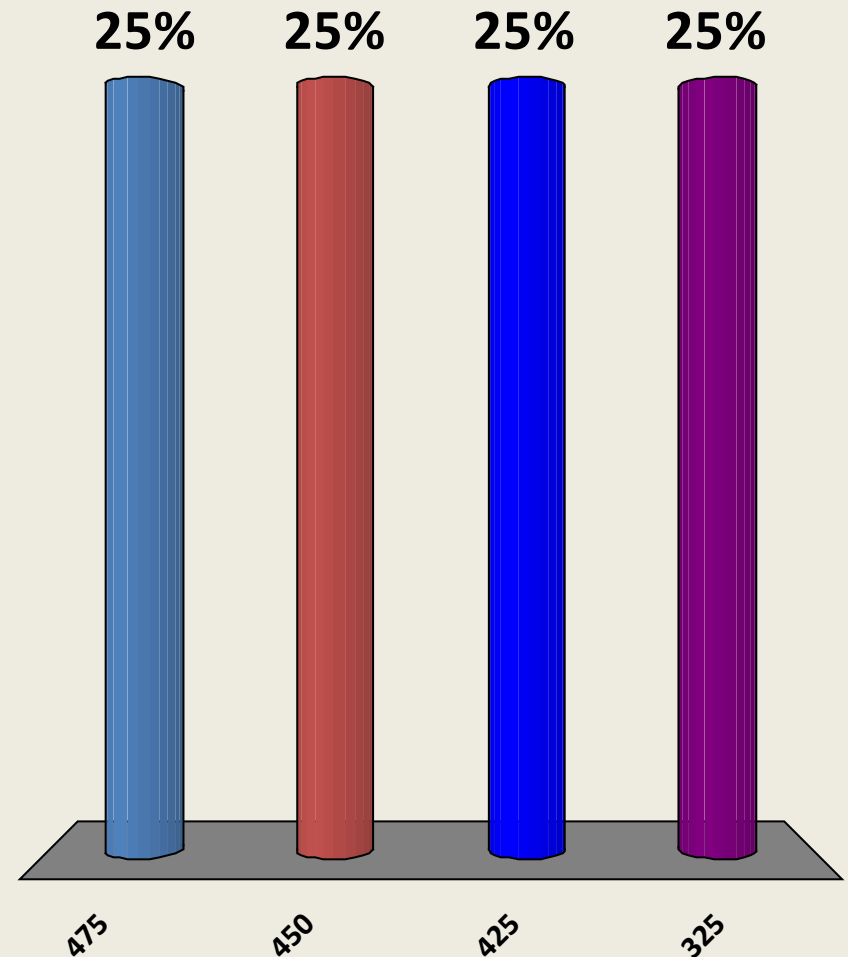
What is the average number of new ladder-rank faculty hired at all UC campuses in the last ten years?

A. 475

✓ B. 450

C. 425

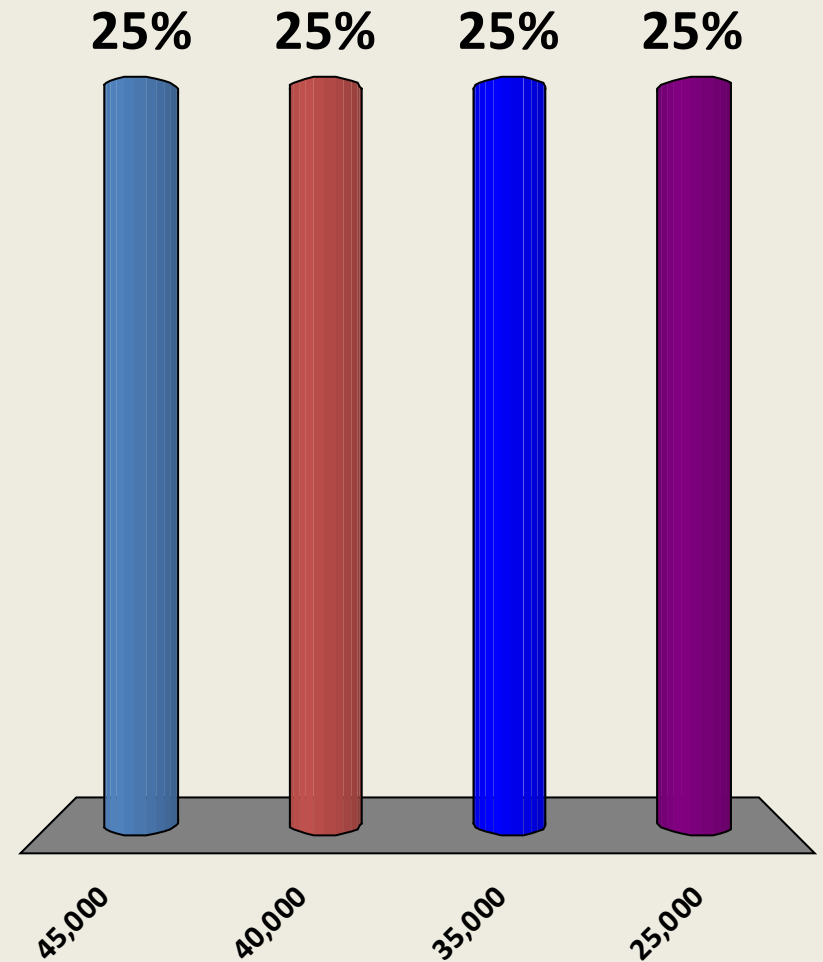
D. 325





What was the number of applicants for ladder-rank faculty positions at UC in 2011-12 (hint: there were 353 hires)?

- A. 45,000
- ✓ B. 40,000
- C. 35,000
- D. 25,000

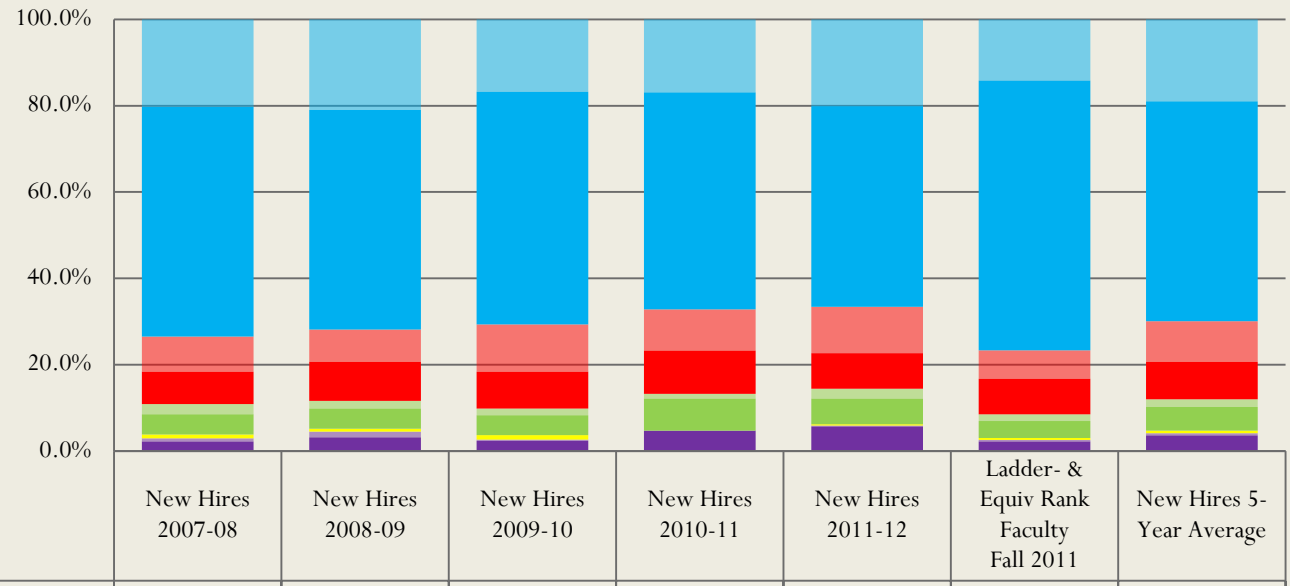




## Meeting the California Challenge: UC ADVANCE PAID

- Support from **10** Chancellors and systemwide Provost
- Takes advantage of networks and prior collaborations among **10** campuses
- Capitalizes on the ability to compile data across **10** campuses
- Focus on recruitment data and Roundtable meetings

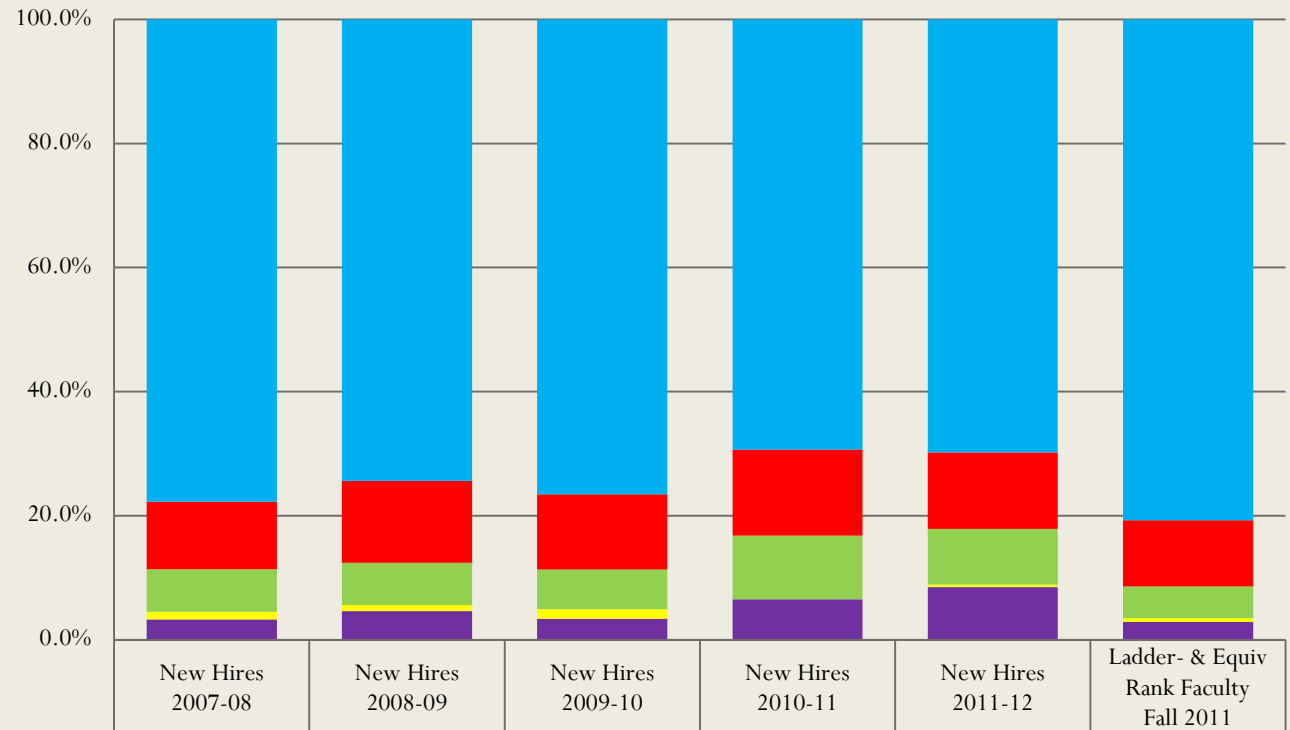
# New Ladder- and Equivalent-Rank Faculty Hires by Race, Ethnicity and Citizenship, Universitywide, 2007-2012



Source: UC Academic File and Payroll data.

Note: American Indian-International faculty represent less than 0.1 percent of faculty and are not displayed.

# New Ladder- and Equivalent-Rank Domestic Faculty Hires by Race and Ethnicity, Universitywide, 2007-2012



■ White/Other-Domestic	77.7%	74.4%	76.5%	69.3%	69.8%	80.8%
■ Asian-Domestic	10.9%	13.2%	12.1%	13.9%	12.3%	10.7%
■ Chicano/Latino/Hispanic-Domestic	6.8%	6.8%	6.4%	10.2%	8.9%	5.1%
■ American Indian-Domestic	1.3%	1.0%	1.5%	0.0%	0.4%	0.6%
■ Black/African American-Domestic	3.3%	4.6%	3.4%	6.6%	8.5%	2.9%

Source: UC Academic File and Payroll data

# University of California Comparison 8 Gender and URM Report Headcount and Percent of Faculty, Women, URM and Women URM Fall 2011

Institution	Total Faculty	Total Women Faculty	Total URM Faculty	Total Women URM Faculty	% Women of Total	% URM of Total	% Women URM of Total
Harvard University	1,517	391	95	34	25.8%	6.3%	2.2%
Massachusetts Institute of Technology	968	206	56	11	21.3%	5.8%	1.1%
Stanford University	1,270	302	80	23	23.8%	6.3%	1.8%
SUNY at Buffalo	1,103	333	71	33	30.2%	6.4%	3.0%
<b>University of California</b>	<b>9,042</b>	<b>2,757</b>	<b>781</b>	<b>300</b>	<b>30.5%</b>	<b>8.6%</b>	<b>3.3%</b>
University of Illinois at Urbana-Champaign	1,671	503	170	73	30.1%	10.2%	4.4%
University of Michigan-Ann Arbor	2,634	797	227	88	30.3%	8.6%	3.3%
University of Virginia-Main Campus	1,395	355	76	29	25.4%	5.4%	2.1%
Yale University	1,464	490	97	41	33.5%	6.6%	2.8%

# UC Recruit: Web-Based Hiring Tool

**RECRUIT Academic Personnel Systems**  
UNIVERSITY of CALIFORNIA • IRVINE

Home · Open Recruitments [Help & How-to](#)

## Apply for an Academic Position at the University of California, Irvine

**Haven't applied yet?**

- You may apply to multiple recruitments, however each recruitment requires its own ApplicantID (unique username and password).
- To apply to a listed recruitment:
  - Locate a recruitment below
  - Click the "Apply to this recruitment" link.
  - Provide requested information to create your ApplicantID.
  - Provide additional requested information to complete application.
- If you have questions:
  - Recruitment questions: click 'Contact' associated with the recruitment below.
  - Technical assistance: contact [Recruit technical support](#).

**Already applied for a position?**

Log in with your ApplicantID

ApplicantID

Password

[Forgot your password?](#)

References: Please use the [reference login](#) page

**1** Browse & locate position → **2** Create username and password → **3** Fill in & complete the application

-- Jump to School

Type and press Enter to search.

**Type**

Tenured / SOE

Other Academic Positions

**Deans and Vice Chancellors**

**Academic Affairs**

Dean, School of Social Sciences <a href="#">Apply to this recruitment</a> <a href="#">Contact</a>	JPF01851	Apply by 5/31/2013 Open since 11/13/2012
Dean, The Paul Merage School of Business <a href="#">Apply to this recruitment</a> <a href="#">Contact</a>	JPF01863	Apply by 5/31/2013 Open since 12/7/2012

Found 2 matches

**Claire Trevor School of the Arts**

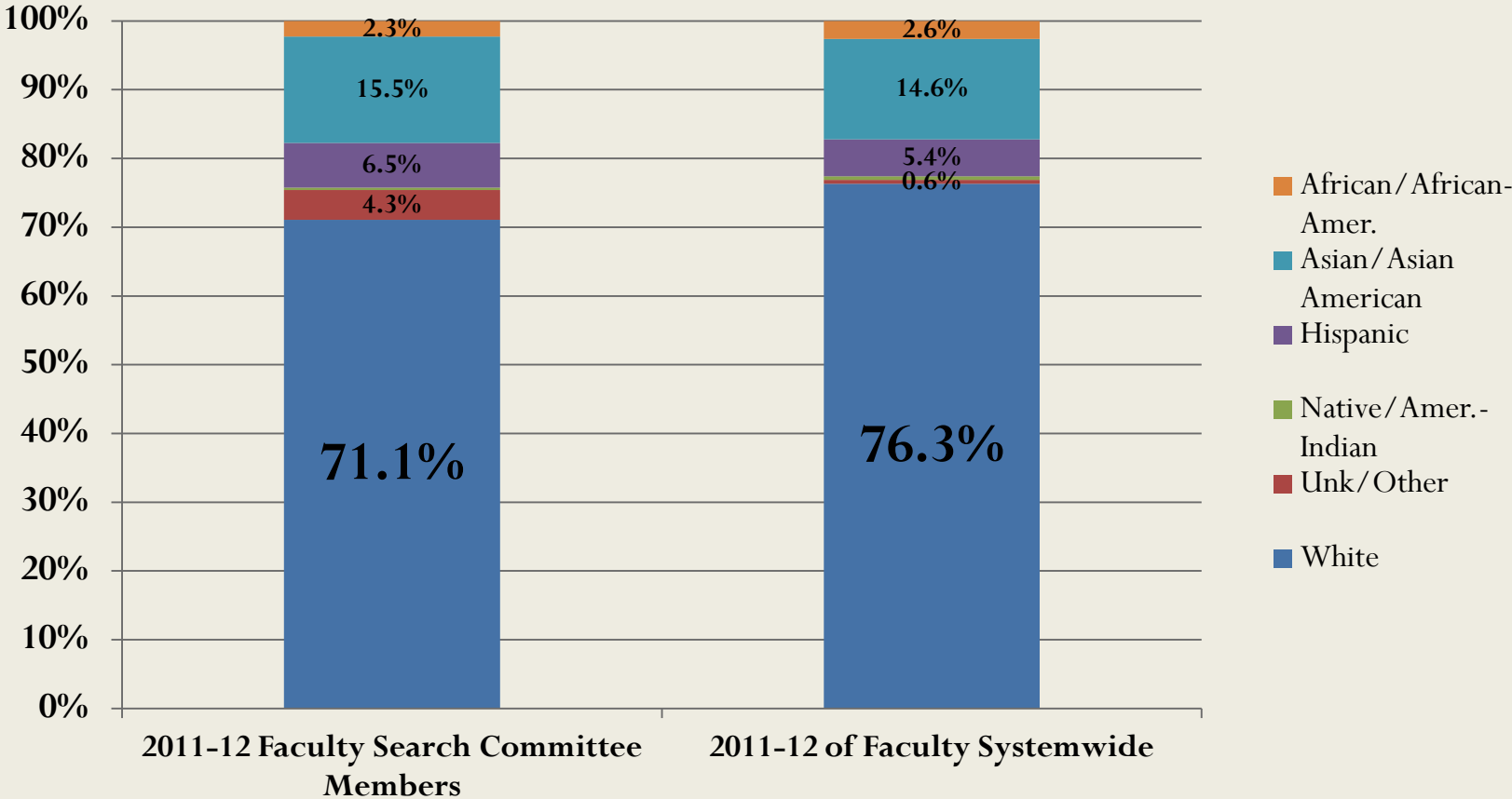
There are currently no listed open recruitments for Claire Trevor School of the Arts

Done

start | Inbox - Microsoft O... | Please join now, me... | RE: Please join now... | Local Disk (C:) | Microsoft PowerPoi... | slides for keeping ou... | KOF slides for Carls... | FW: Final Draft of E... | E2: Accountability S... | Browse Open Recrul... | 4:53 PM

<https:recruit.ap.uci.edu/apply>

# Ethnicity Distribution of UC Faculty Search Committee Members v. UC Faculty Systemwide



Source: 2011-12 UC Faculty Search Data



## Challenges in Recruiting a Diverse Faculty to UC

- Reliability of availabilities data
- Correlating search practices to hiring results
- Costs in developing a flexible data collection tool



# UC President's Post-Doctoral Fellowship Program

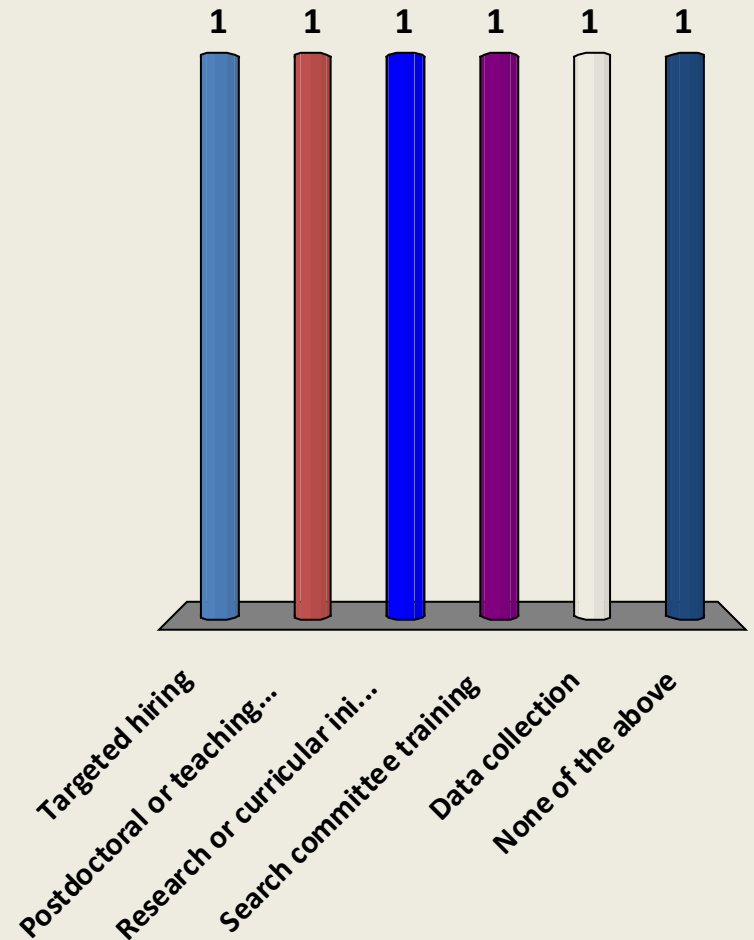
Sheila O'Rourke

Director, University of California-Office of the President's  
Postdoctoral Fellowship Program



# Does your institution have effective programs in place to promote faculty diversity?

- A. Targeted hiring
- B. Postdoctoral or teaching fellowships
- C. Research or curricular initiatives
- D. Search committee training
- E. Data collection
- F. None of the above



# A Success Story

## UC President's Postdoctoral Fellowship Program

### **The Data**

- Showed that UC had not increased hiring of URM faculty in decades

### **The Challenge**

- California passed Prop 209 in 1996 prohibiting consideration of race/gender

### **The Program Promotes Diversity Among Faculty by:**

Providing research support, mentoring and career development for scholars whose work will contribute to diversity and equal opportunity at UC:

- Public service addressing the needs of our increasingly diverse society,
- Efforts to advance equitable access to higher education for women and minorities, or
- Research focusing on underserved populations or addressing issues of race, gender, or other inequalities.

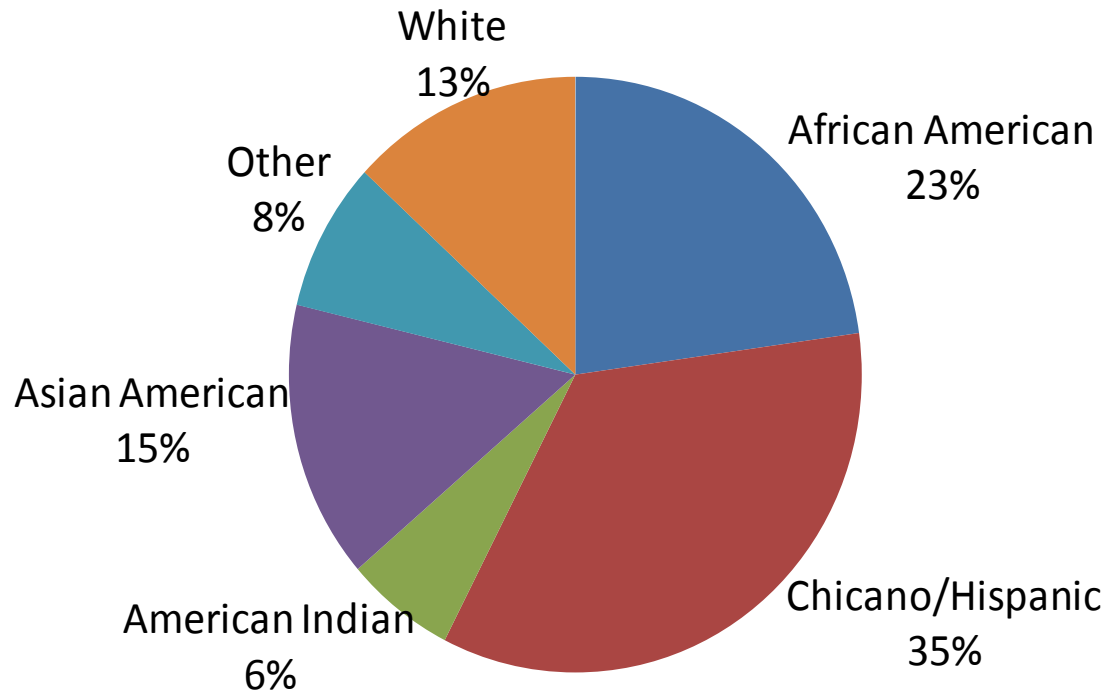


# A Success Story

## UC President's Postdoctoral Fellowship Program

Fellows Demographic Profile 66% women/64% URM

**2000-2012 (N=259)**



# A SUCCESS STORY

## UC President's Postdoctoral Fellowship Program

### Benefits of the Program

- Two years of funded support under the mentorship of a UC faculty member
- Participation in an academic retreat to practice job talks and receive career coaching
- Benefits of a broad, multidisciplinary, multi-generational, scholarly network

### Distribution by Field

- 33% Social Sciences
- 31% Humanities
- 36% Science, Technology, Engineering and Math (STEM)



# A Success Story

## UC President's Postdoctoral Fellowship Program

Challenge – UC system not hiring faculty from the program

- From 1986-2002 only 1-2 faculty hired each year to UC

### Intervention

- President's Postdoctoral Fellowship Hiring Incentive:
  - Partial "FTE" salary support for five years
  - Funding taken "off the top" of regular faculty funds
  - Zero net cost to the system

### Data

- Result of the Incentive:
  - Hiring UC faculty from this program jumped to >10/year
  - Since 2003, over 100 new UC faculty hires



# A Success Story

## UC President's Postdoctoral Fellowship Program

### Data

**Of first 52 eligible for tenure, 51 achieved tenure!**

- 12% of all URM hires at UC from 2003-2010
- 26% of all American Indian hires at UC from 2003-2010

**New faculty are part of interdisciplinary system-wide cohort**

Continue to be engaged in the program network

- Mentoring new fellows
- Continuing to receive mentoring from senior faculty

**Challenge = Recruiting in the STEM fields**

- More limited pipeline
- Higher start up costs



# A Success Story

## UC President's Postdoctoral Fellowship Program

### New Partnerships

- STEM faculty with NSF, NIH and other funding – matching funds  
10 additional fellowships in STEM
- Other research universities – University of Michigan

### University Partnerships for Faculty Diversity

<http://www.ucop.edu/acadpersonnel/ppfp/welcome.html>

- Shared application
- Shared recruiting network
- Easy access online review procedures
- Access to selection policies, teaching policies, professional development framework





# UC Irvine ADVANCE Program for Equity and Diversity

Douglas M. Haynes

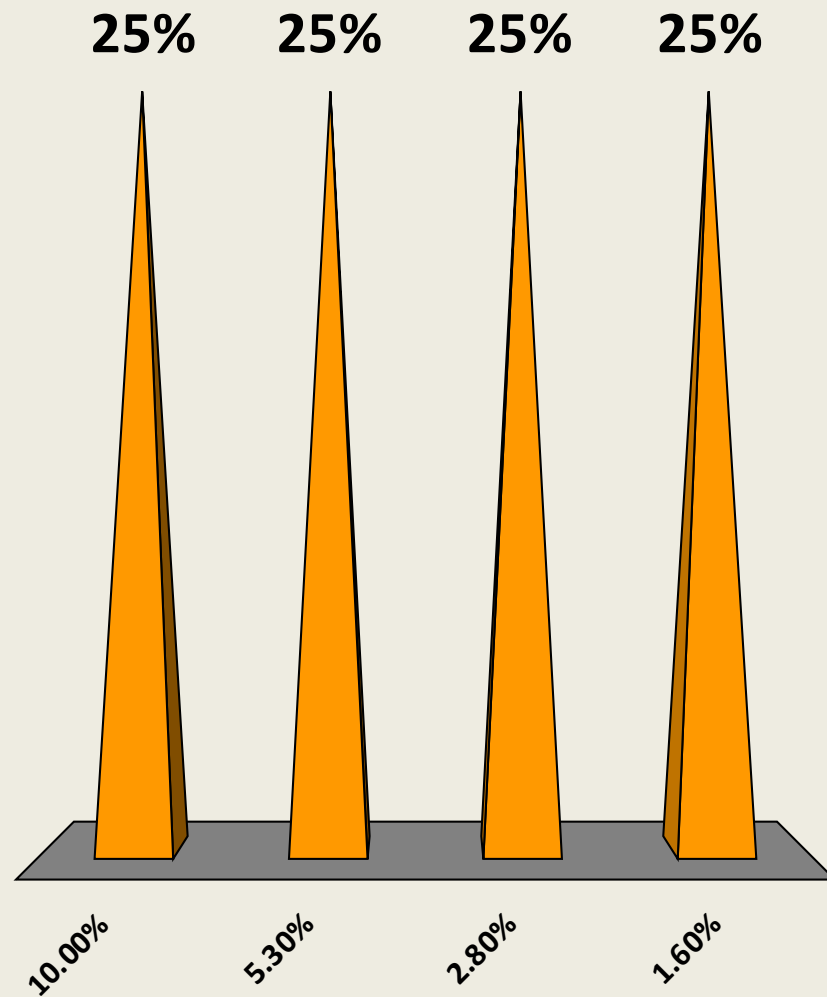
Associate Vice Provost for Equity and Diversity


Associate Professor, History



What was the change in the percentage of under-represented minorities faculty systemwide, between 2003 and 2012?

- A. 10.0%
- B. 5.3%
- C. 2.8%
- ✓ D. 1.6%





## UC Irvine ADVANCE Program: Advancing Excellence through Equity and Diversity

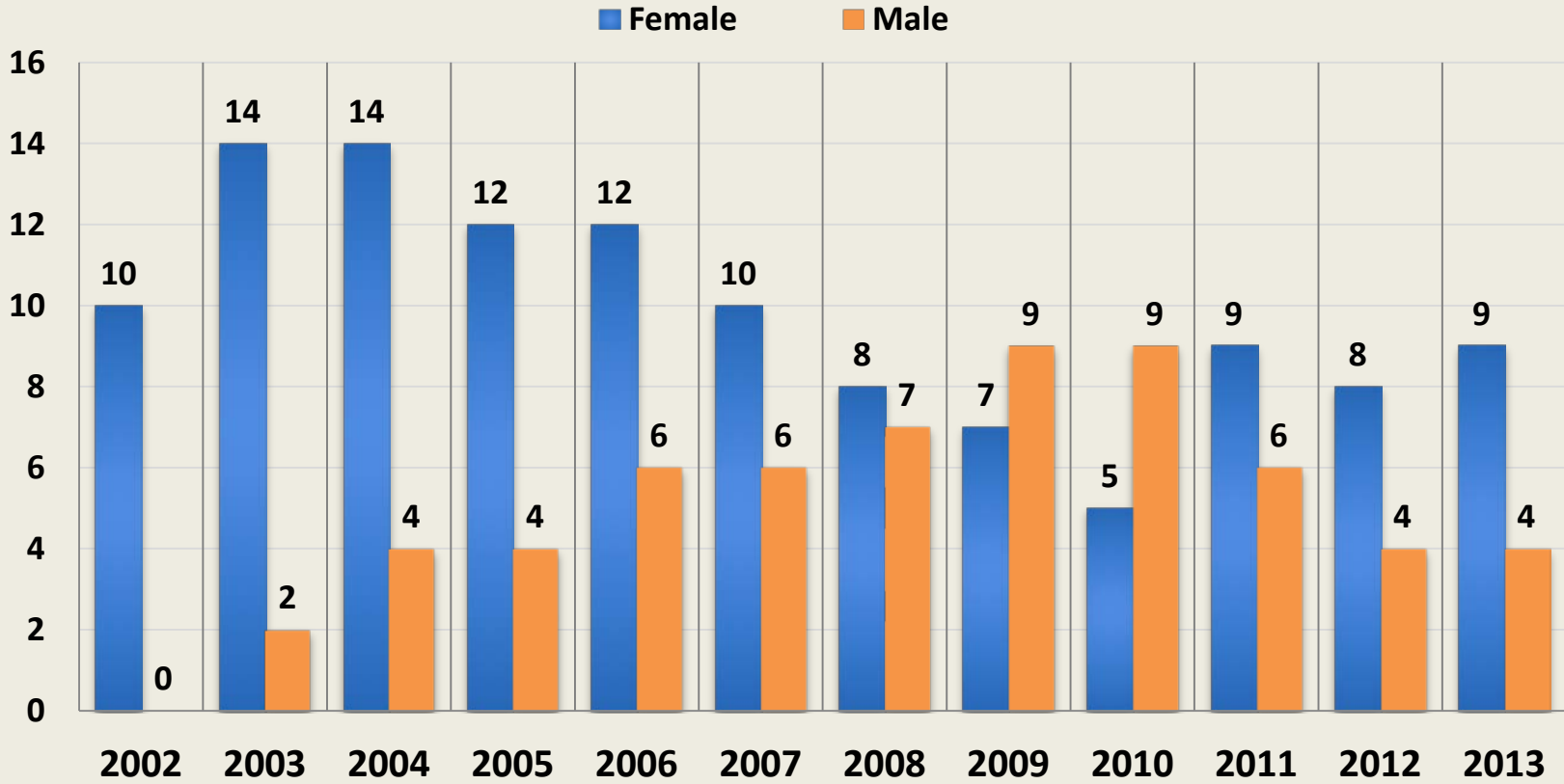
- Robust leadership and intentional message
- Align incentives and resources to priorities
- Consistent dissemination and articulation of University policies and campus procedures
- Train and equip faculty leaders to be change agents
- Build on strengths and broaden mission

## Faculty Equity Advisor Model and Leadership

- Equity Advisor selected from each School
- Furnish best practices for and advise regular rank faculty searches
- Coordinate mentoring programming for junior as well as senior faculty
- Provide salary equity counseling for faculty
- Oversight of faculty and graduate student diversity
- Tenured and Familiar with UC Irvine
- Current/former chairs, directors
- Established research profiles
- Supported by NSA, NEH, NEA, NIH, NSF
- Recipients of Senate Research, teaching and service awards
- Incumbents of UC Irvine Endowed Chairs

# Gender Characteristics of Equity Advisors

## Equity Advisors by Gender

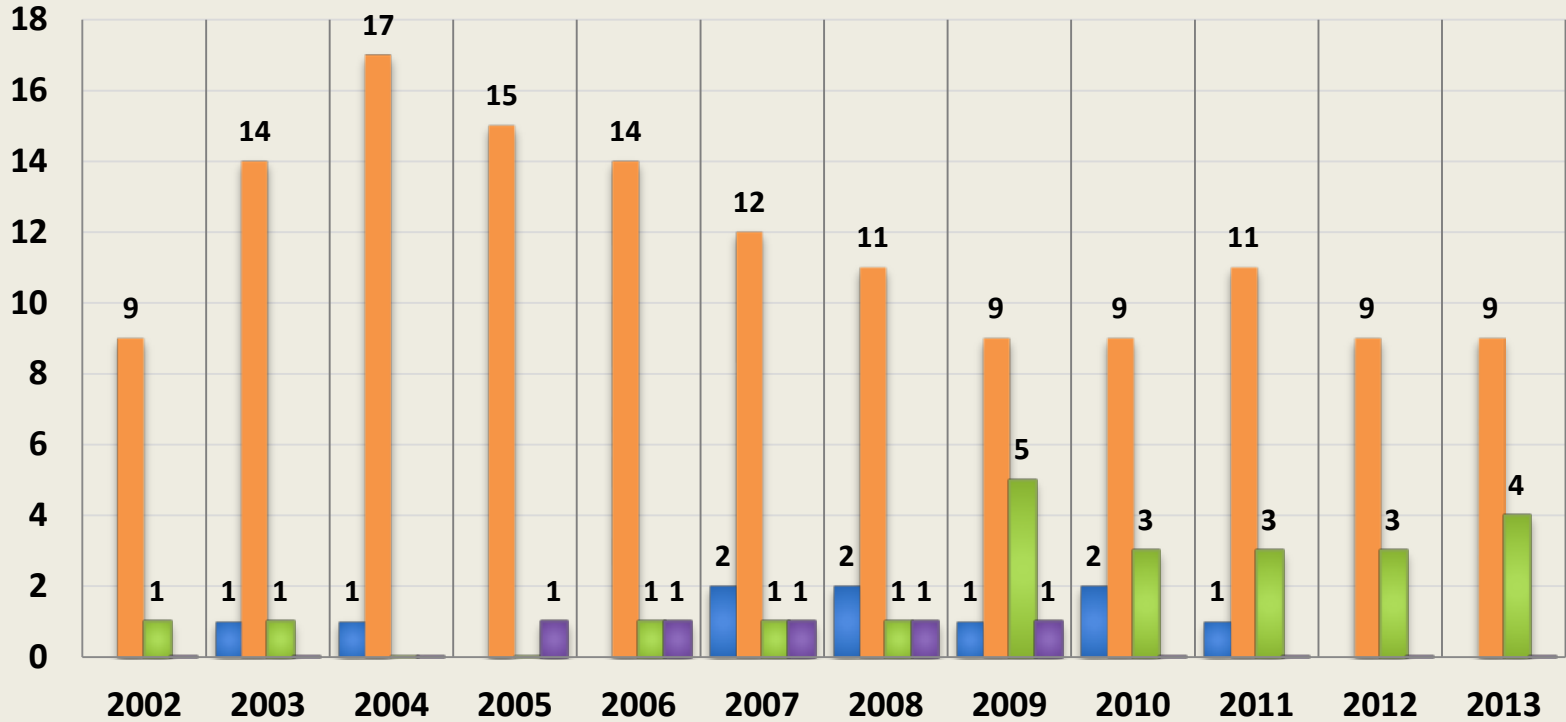


# Ethnicity Characteristics of Equity Advisor

2002-2013

## Equity Advisors by Ethnicity

URM White Asian Declined

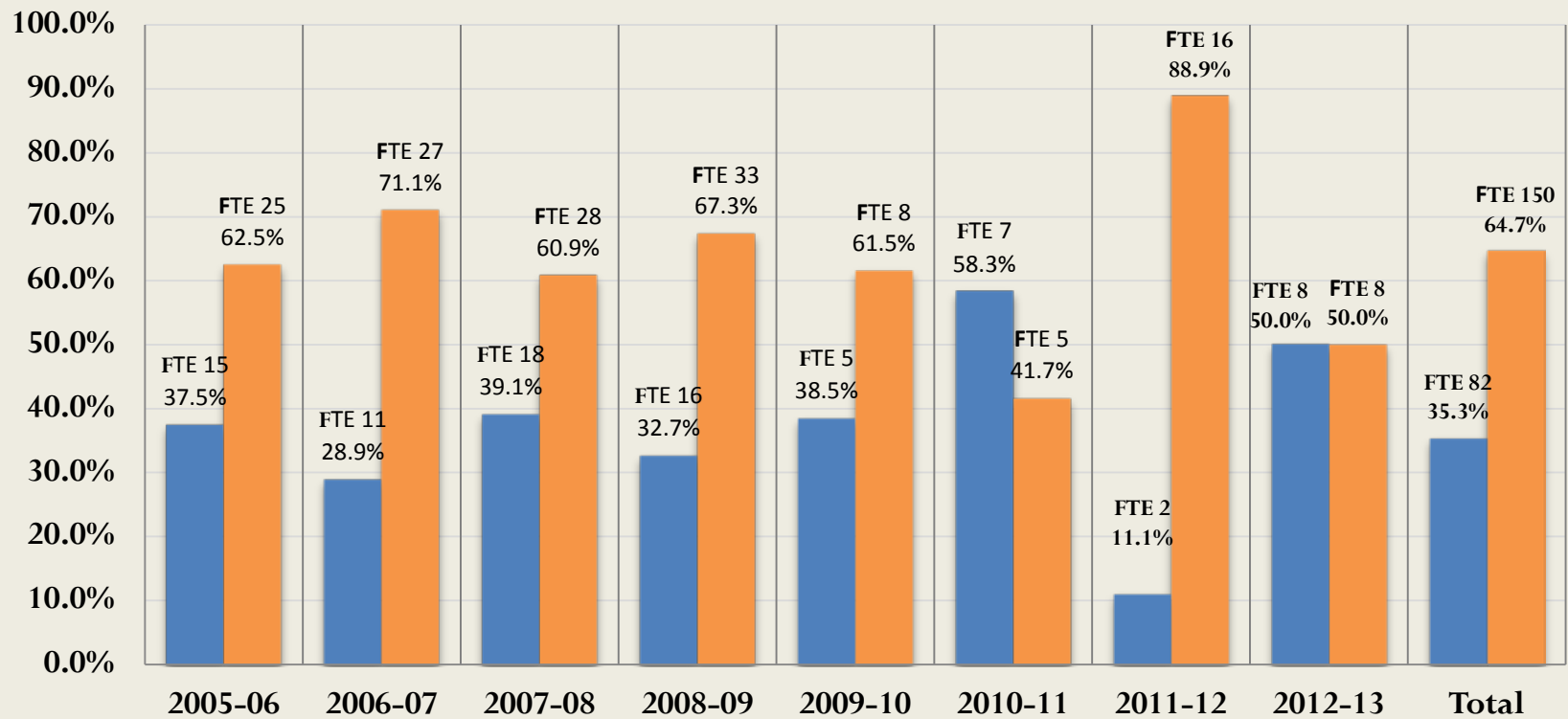


## Diversity: A Principal Campus Objective

- Multiple recruitment strategies advance UC Irvine strategic plan *Focus on Excellence*.
- The programs below augment and complement other campus/school/department strategic hiring programs:
  - UC Irvine Chancellor's ADVANCE Postdoctoral Fellowship, 2013-2014
  - UC PFP Faculty Incentive Hires since 2003 (17 FTE)
  - Scholarship on Diversity since 2007-2008 (7 FTE)
  - Career Partner Hires since 2000 (84 FTE)

# Regular Rank STEM New Faculty Hires by Gender

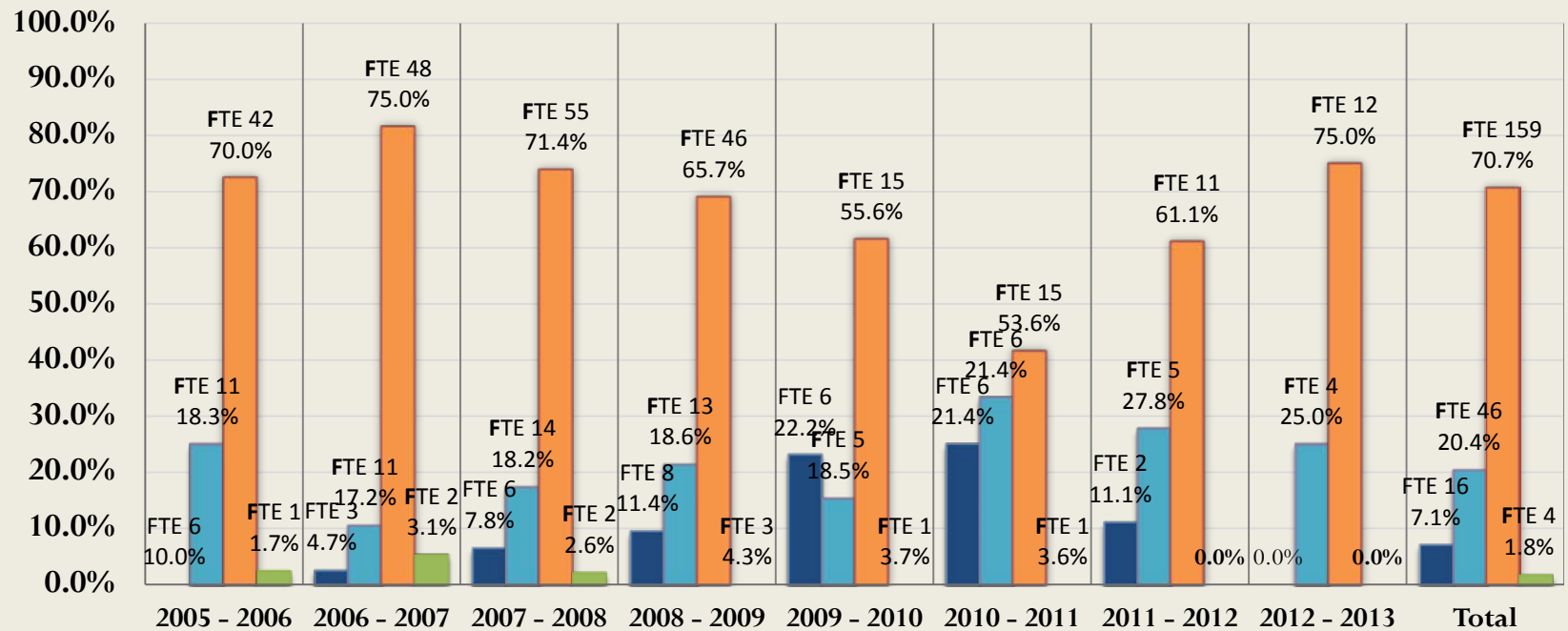
■ Female      ■ Male





# Regular Rank STEM New Faculty Hires by Ethnicity

■ Underrepresented\* ■ Asian ■ White ■ Declined to State



## Challenge: Narrow Clusters of Faculty Recruiting Institutions

- UC Recruit shows approximately 65% of UC's new appointments in the professorial series and equivalent rank faculty are from 25 institutions
- Those 25 institutions are a combination of 15 private and 10 public higher education institutions

### New Appointments - Institution of Highest Degree--2002-03 through 2011-12 combined

Degree Institution	New UC Hires	% of new hires
Top 20 Public and Private Institutions	1,888	40%
Other Institutions	1,747	37%
<b>University of California</b>	<b>1,108</b>	<b>23%</b>
<b>Total New Hires</b>	<b>4,743</b>	<b>100%</b>

## Challenge: Declining State Support


- Reduced hiring activity and increased uncertainty in academic planning
- Differential perceptions of “core” and “non-core” fields/disciplines—STEM versus Non-STEM
- Potential for reducing participation in the professoriate due to narrow definition of excellence—i.e. PhD institution, field of research, and “best fit”



## Building and Sustaining an Inclusive Culture

### **Academic Senate Statements and Commitments Affirming:**

- Work-life Balance (2008)
- Inclusive Culture & Climate (2011)
- Diversity in the Academic Review Process (2012)
- Diversity in Graduate Education (2013)



## ADVANCE Dependent Care Travel Awards Program

**Complements University “*family friendly accommodation*” resources:**

- Supports Assistant/ Associate professors w/ young children
- Subsidizes daycare costs for conference attendance and research meeting participation
- 104 awards funded to eligible faculty across campus units since 2007

# Moving Forward with Women in STEM UC Riverside and Beyond

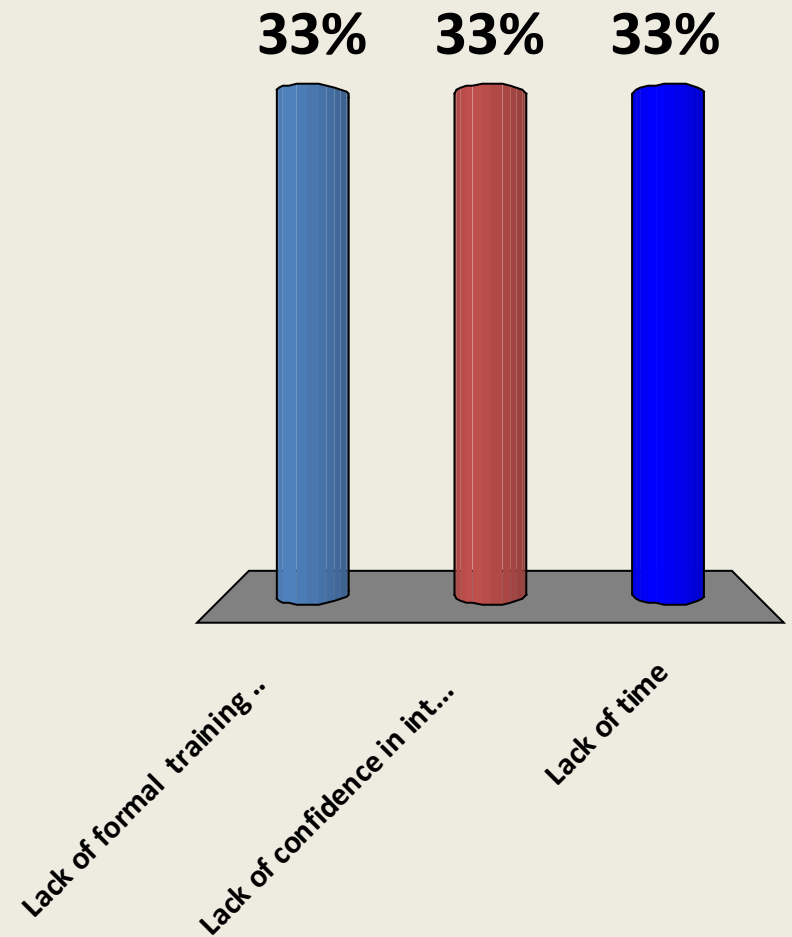
Yolanda Moses

Associate Vice Chancellor, Diversity, Excellence and Equity  
Professor, Anthropology, University of California Riverside



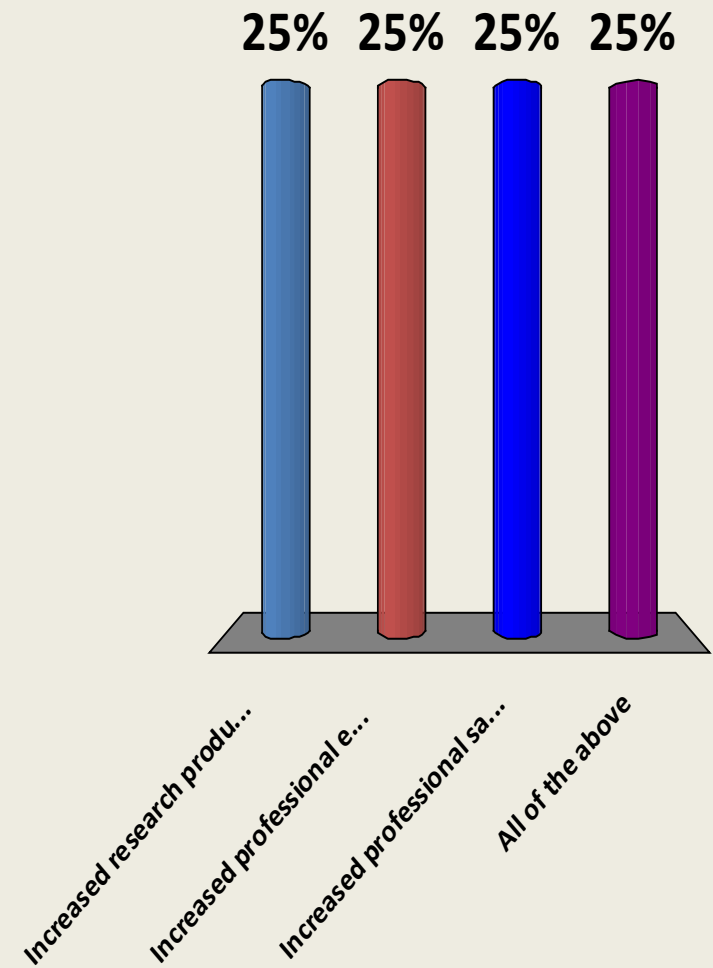
## What is the most common reason that senior faculty cite for why they do not volunteer to mentor junior faculty?

- A. Lack of formal training as a mentor
- B. Lack of confidence in interpersonal skills
- ✓ C. Lack of time



## Research shows that the most effective mentoring outcomes are

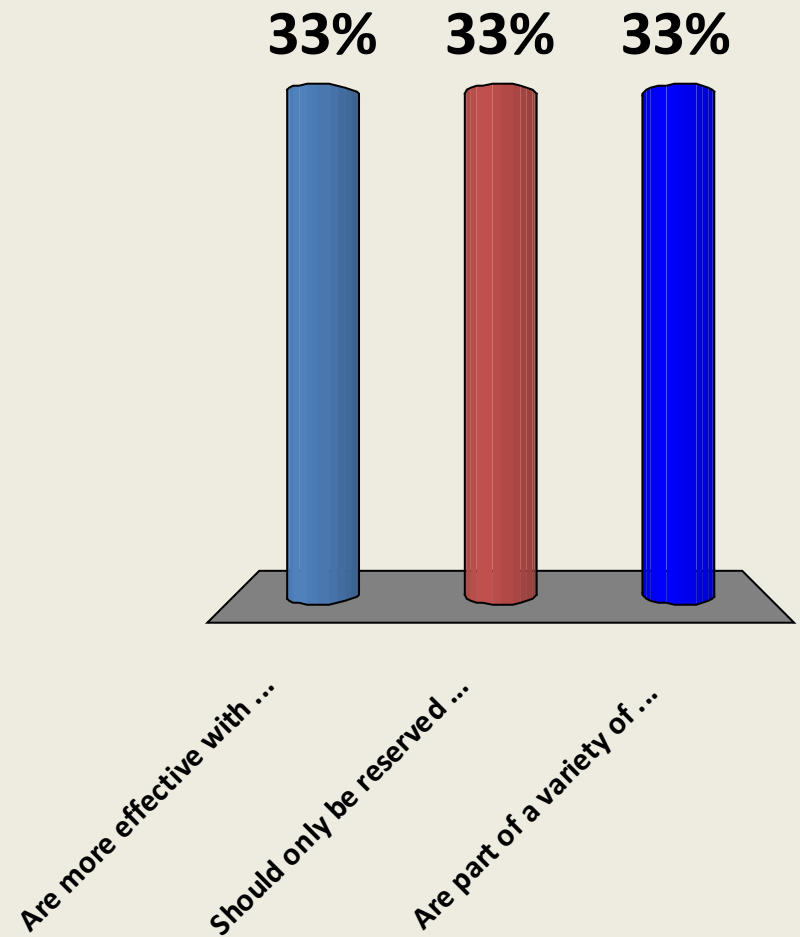
- A. Increased research productivity of mentee
- B. Increased professional engagement of mentee
- C. Increased professional satisfaction of mentor
- ✓ D. All of the above



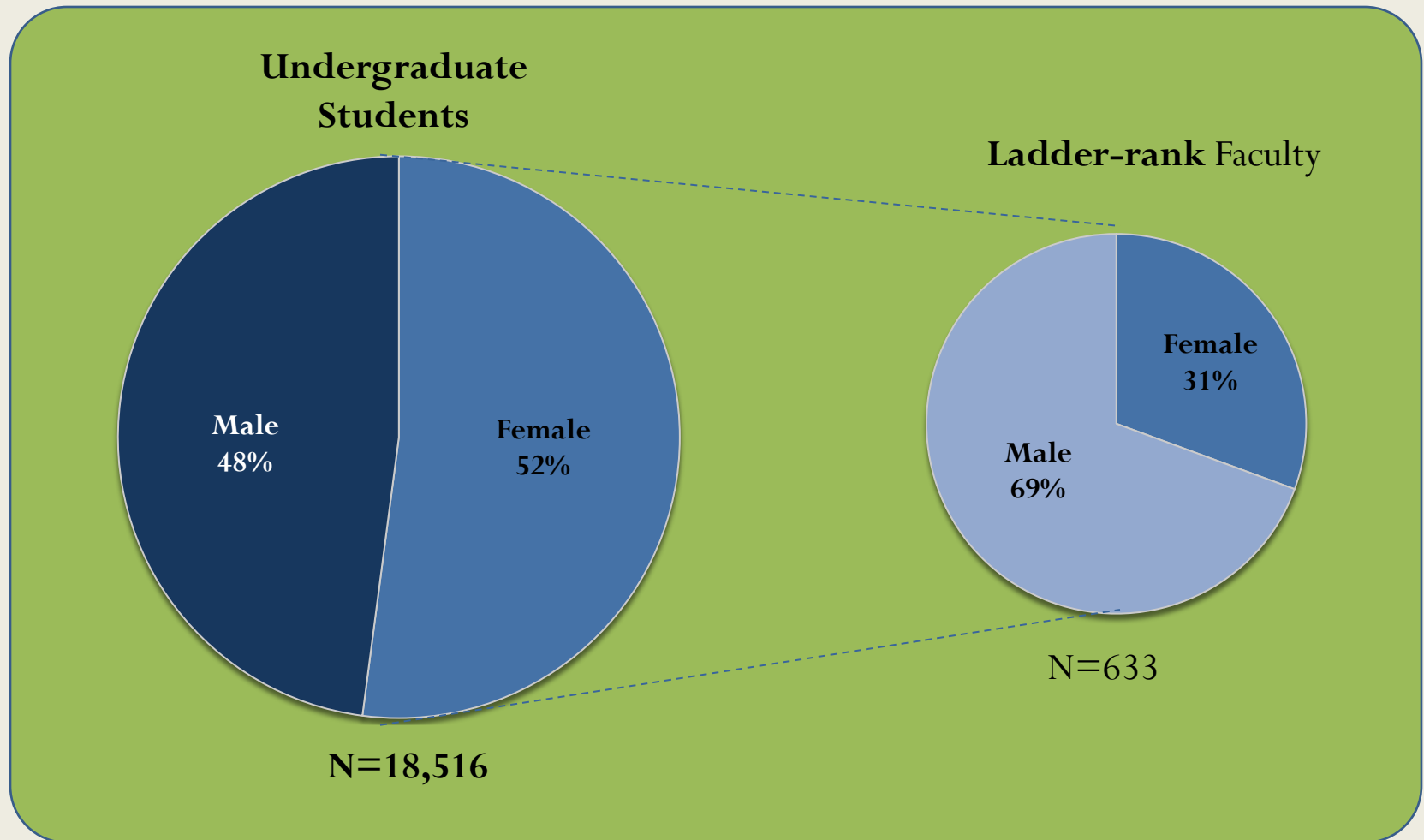


## Peer Mentoring and Group Mentoring Strategies

- A. Are more effective with students than with faculty
- B. Should only be reserved for junior faculty
- ✓ C. Are part of a variety of options that faculty at all levels of their career should use as options

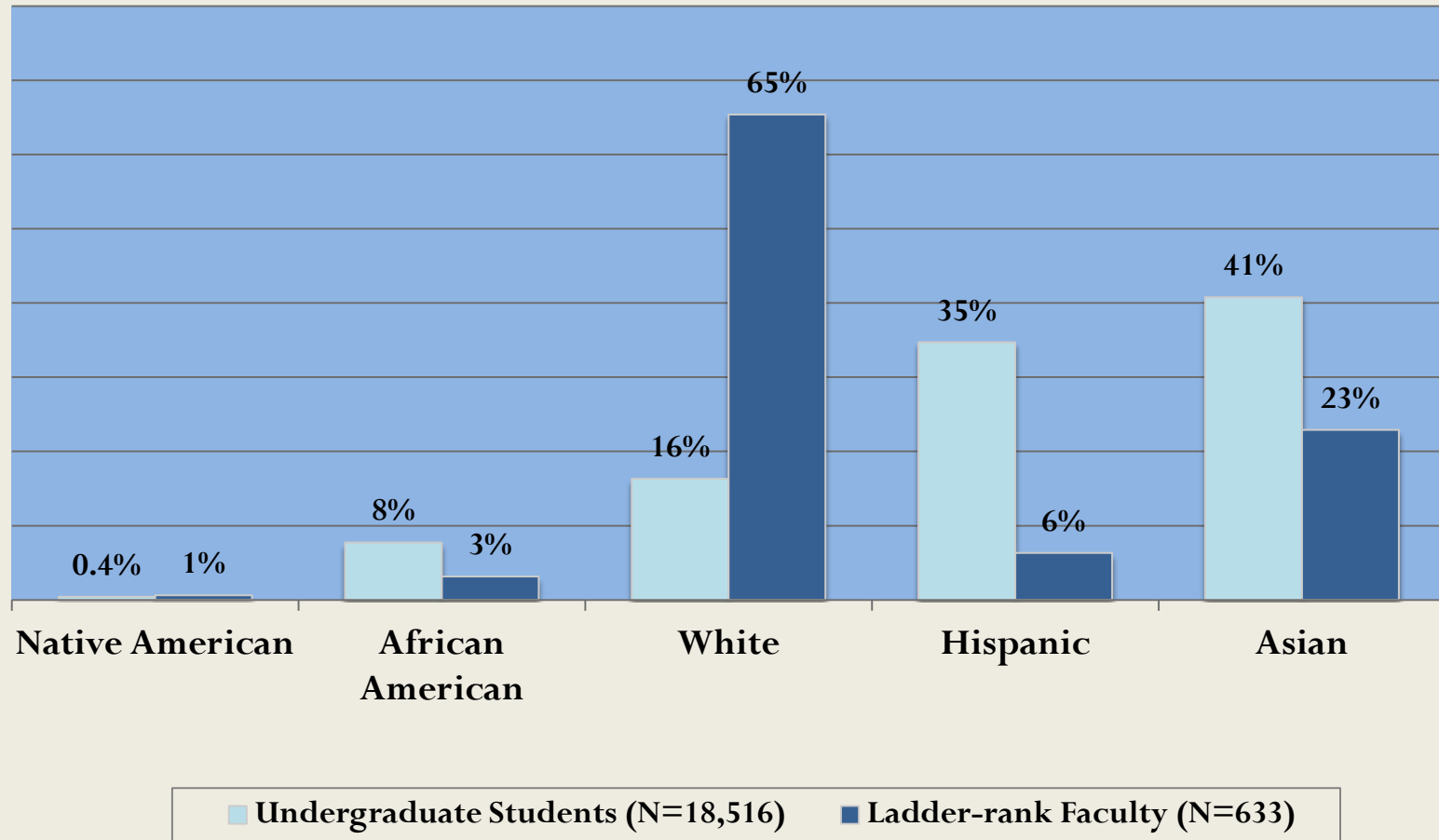


# Diversity at UC Riverside by Gender: Undergraduate Students v. Ladder-Rank Faculty

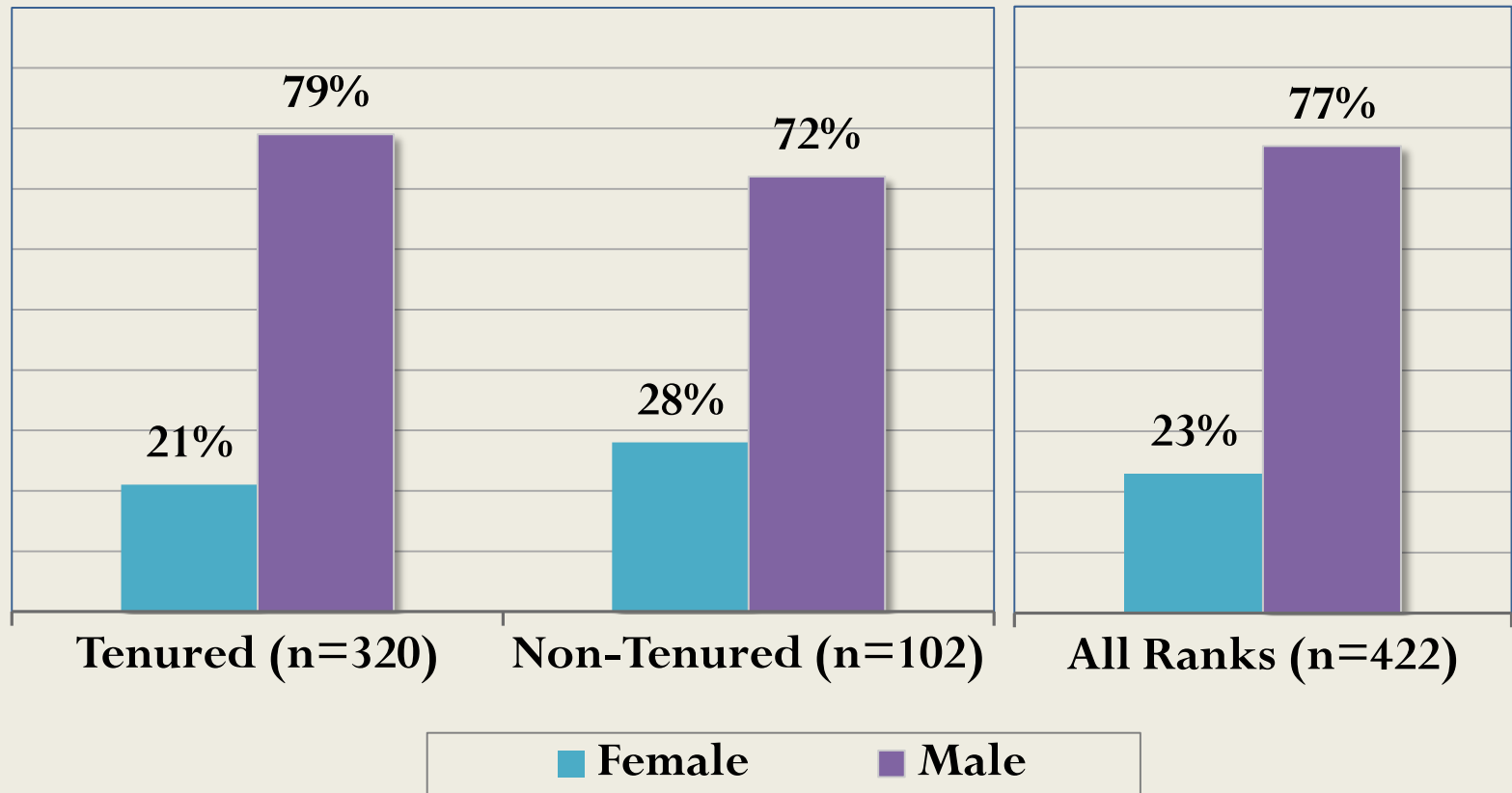


Source: UC Office of the President, and OFSAA Campus Academic Workforce File, October 2012

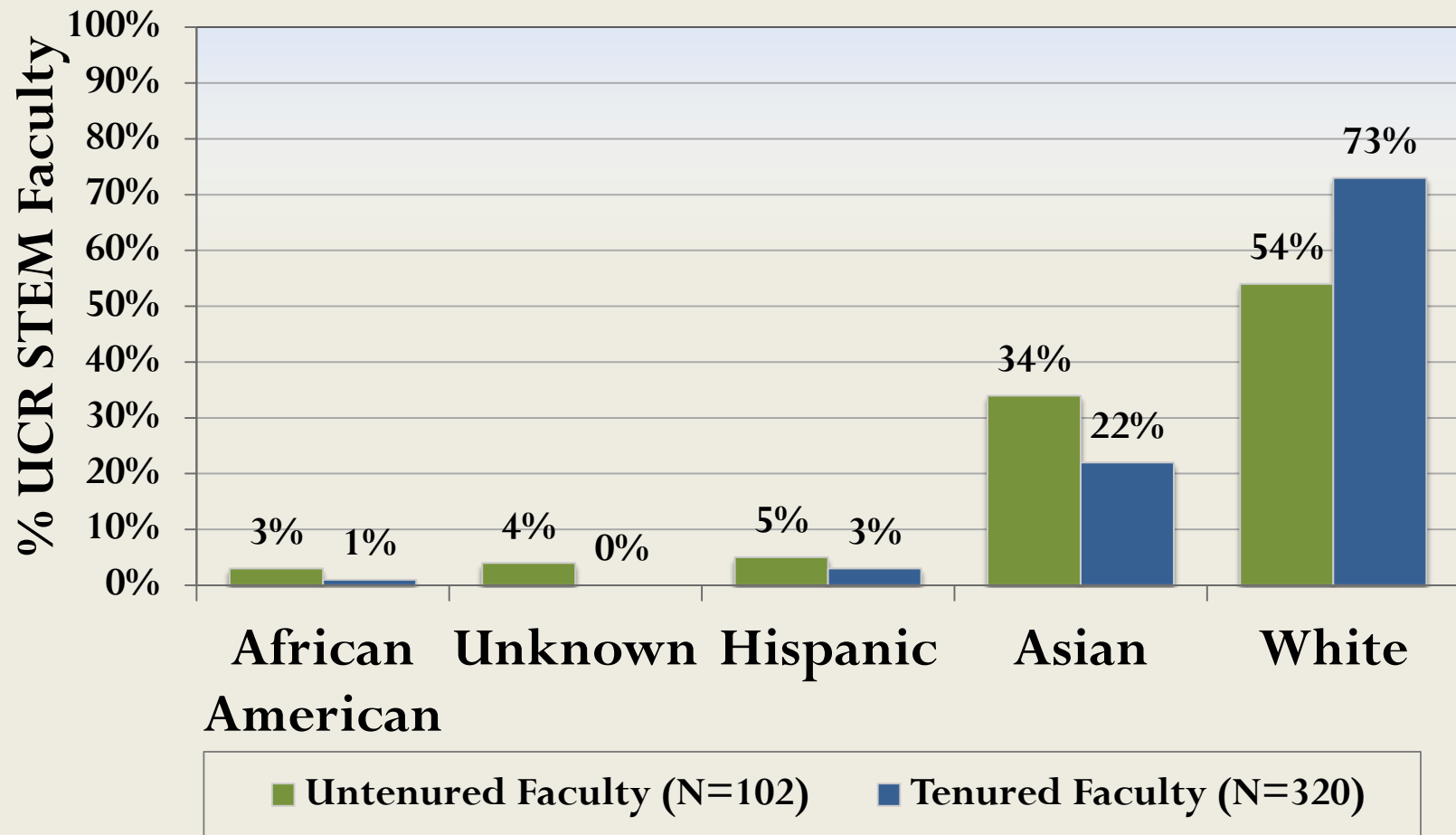
# Diversity at UC Riverside by Race/Ethnicity: Undergraduate Students v. Ladder Rank Faculty



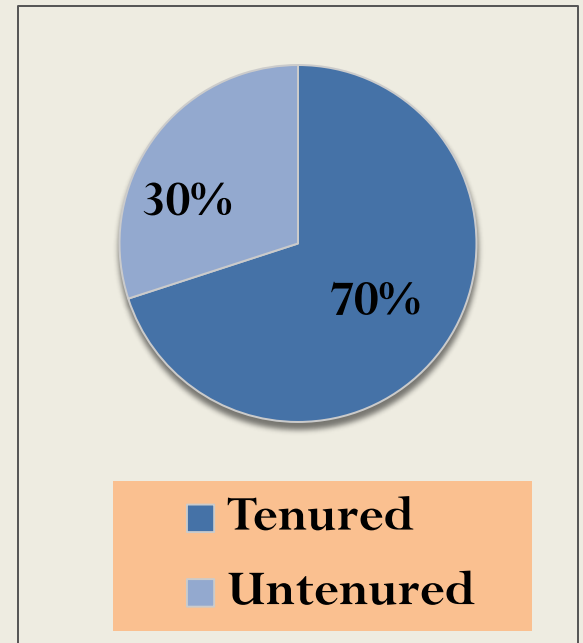
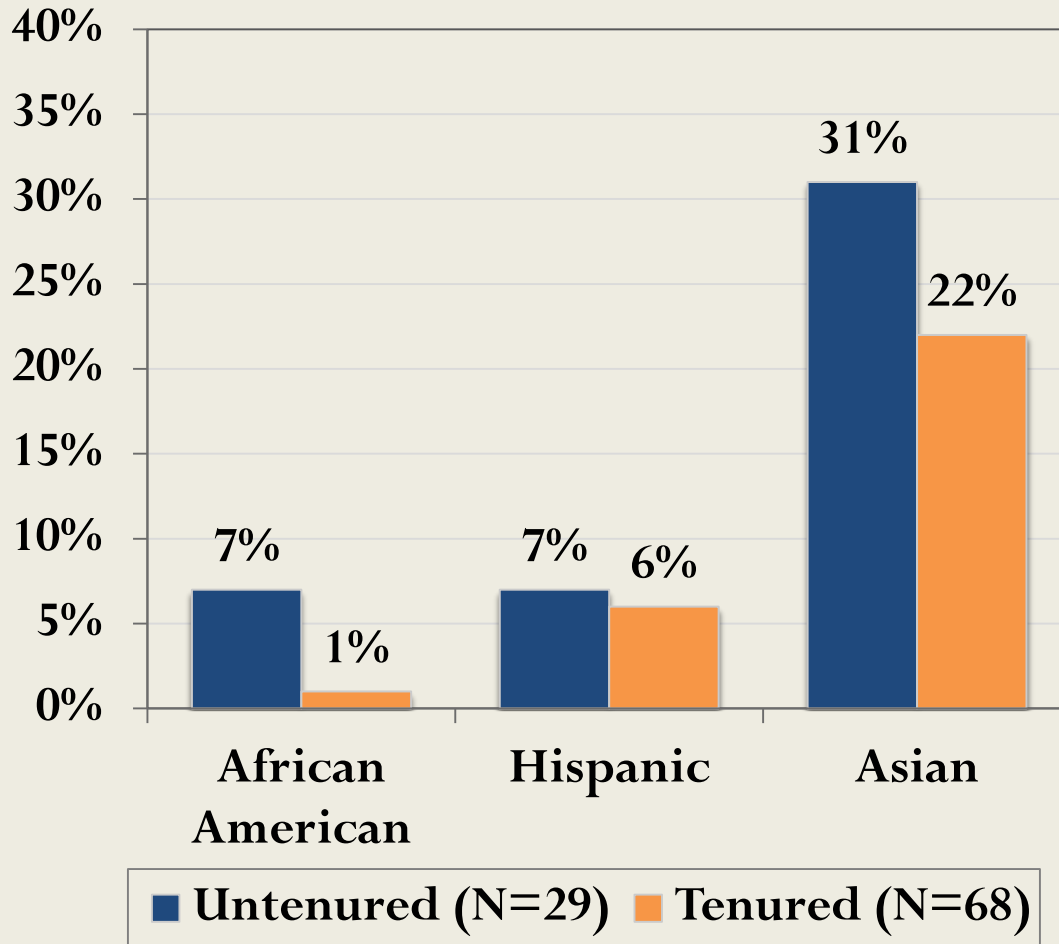
# UC R STEM Faculty by Gender and Tenure Status



# UC Riverside STEM Faculty by Race/Ethnicity and Tenure Status



# UC Riverside Women of Color STEM Faculty by Tenure Status





## UC: Riverside

### *Moving Forward with Women in STEM: UCR and Beyond*

**This is a project with two major goals:**

- First- Information gathering and analysis in expanded and creative ways; building new and effective programs for professional development and success of STEM women faculty at UC Riverside.
- Second- Build a statewide professional development network for Women of Color in STEM in California.

# UC Riverside-The Impact of Mentoring at all Career Stages

## What the data shows:

- Between 2004 and 2007 UC Riverside hired 100 new faculty
  - 43% were women
  - 32% were minorities
- To date, there is a persistence rate of that cohort of 86%
- Grant allows us to look at the effectiveness of current mentoring programs, and to make them more effective





## UC Riverside-The Impact of Mentoring at all Career Stages

- Campus-wide faculty survey showed that both men and women feel that mentoring is useful (65% men and 78% women)
- This year we will see how the women who participated in our new and enhanced mentoring program feel
- We are also working with the Office of Research to measure research output as an indicator of success

# UC Riverside: The Impact of Mentoring at all Career Stages

## Successes:

- **Senior to Junior Faculty**

Establishing a more formal program that will become part of the “service” component in the tenure review process

- **Associate Professors**

Need a special, multidimensional program

- **Full Professors**

Have a different set of mentoring and professional development needs e.g., group sessions and leadership development

## UC Riverside: The Impact of Mentoring at all Career Stages

### Successes:

- By disaggregating data on faculty, we can personalize the needs of faculty at individual levels-- **one size does not fit all**
- Developing new electronic data base to track the progress of departments and individuals within departments and they move through their careers

# UC Riverside: The Impact of Mentoring at all Career Stages

## Challenges-Institutional Change

- Integrating the value for mentoring into the tenure and promotion system (UC Academic Personnel Manual (APM) 210, 240 and 245)
- Filling new leadership roles (on and off campus) with faculty who have a profound understanding and value of the role of effective mentoring as a success strategy for women and URM STEM faculty



# UC Riverside: The Impact of Mentoring at all Career Stages

## Challenges-Institutional Change

- Promoting institutional cultural shifts around the use of policies that encourage flexibility for faculty (especially taking advantage of family leave policies and stopping the clock policies as flex-time policies)

# Increasing Diversity in the Sciences: Observations and Lessons From a New School

Juan Meza

Dean, School of Natural Sciences

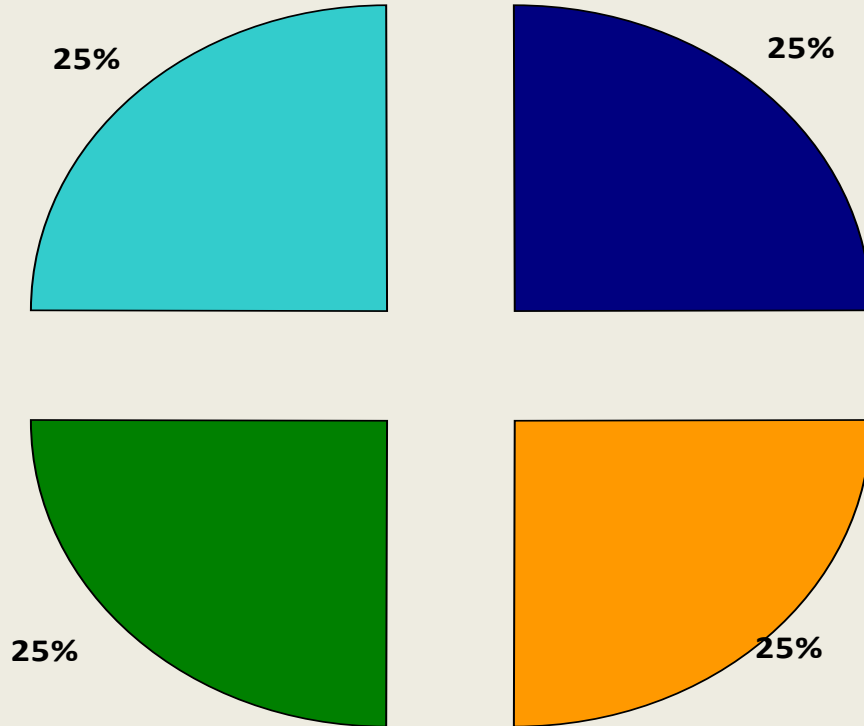
Professor, Applied Mathematics, University of California  
Merced

(presented by Associate Vice Chancellor Yolanda Moses,  
University of California Riverside)



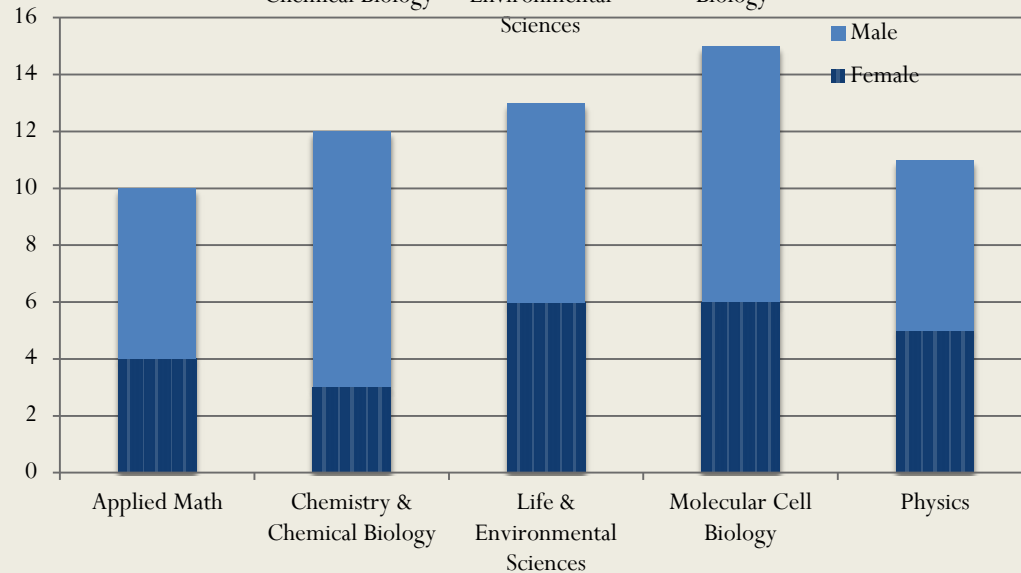
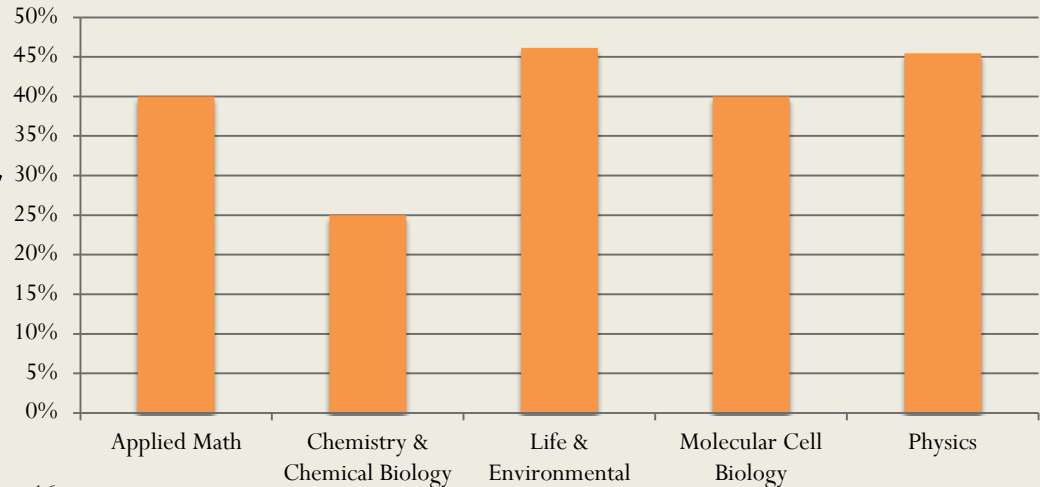
# What is the percentage of untenured faculty at UC Merced?

- A. 74%
- ✓ B. 48%
- C. 45%
- D. 32%



# UC Merced Natural Sciences Faculty by Gender

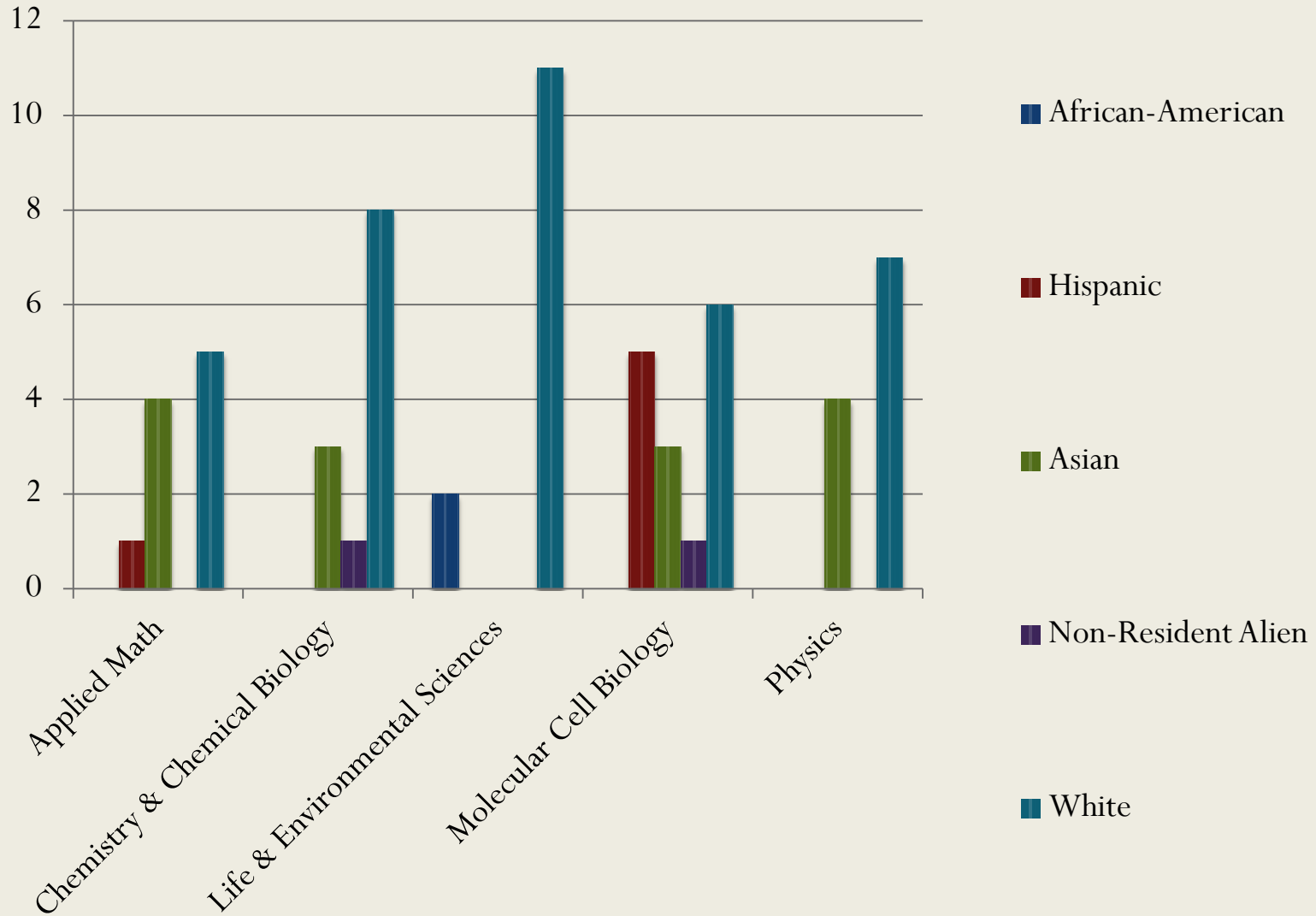
## Percent Female Faculty



- Overall 39% of faculty are female across the School of Natural Sciences
- Highest percentages in the Life Sciences and Physics!
- Lowest percentage in Chemistry

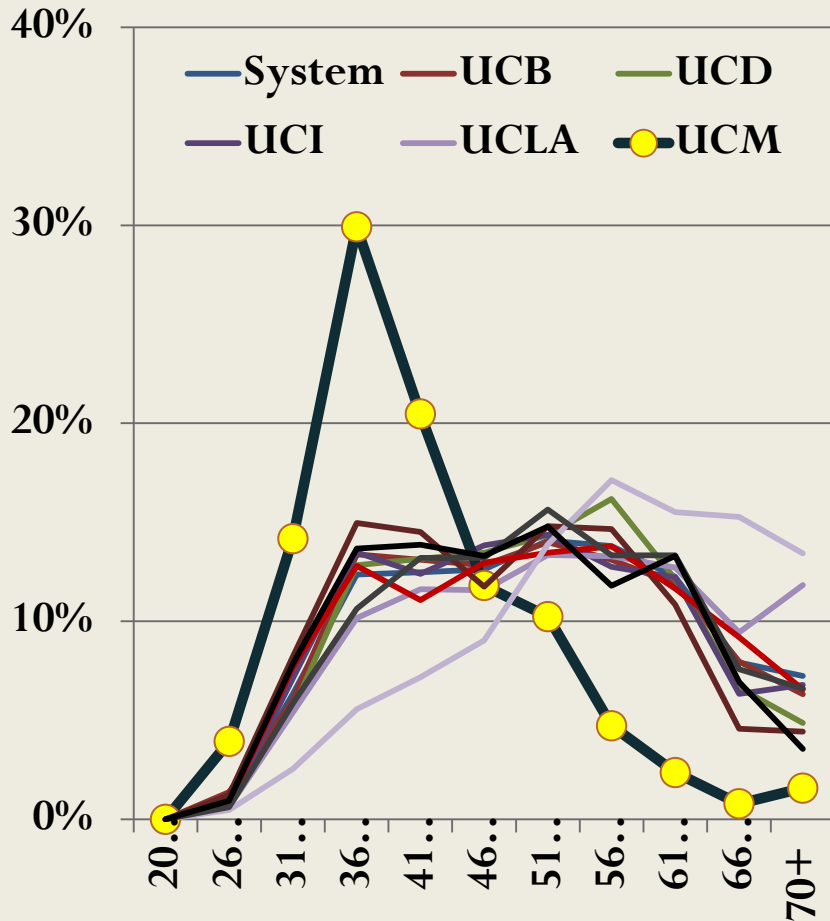


# UC Merced Natural Sciences Faculty by Ethnicity



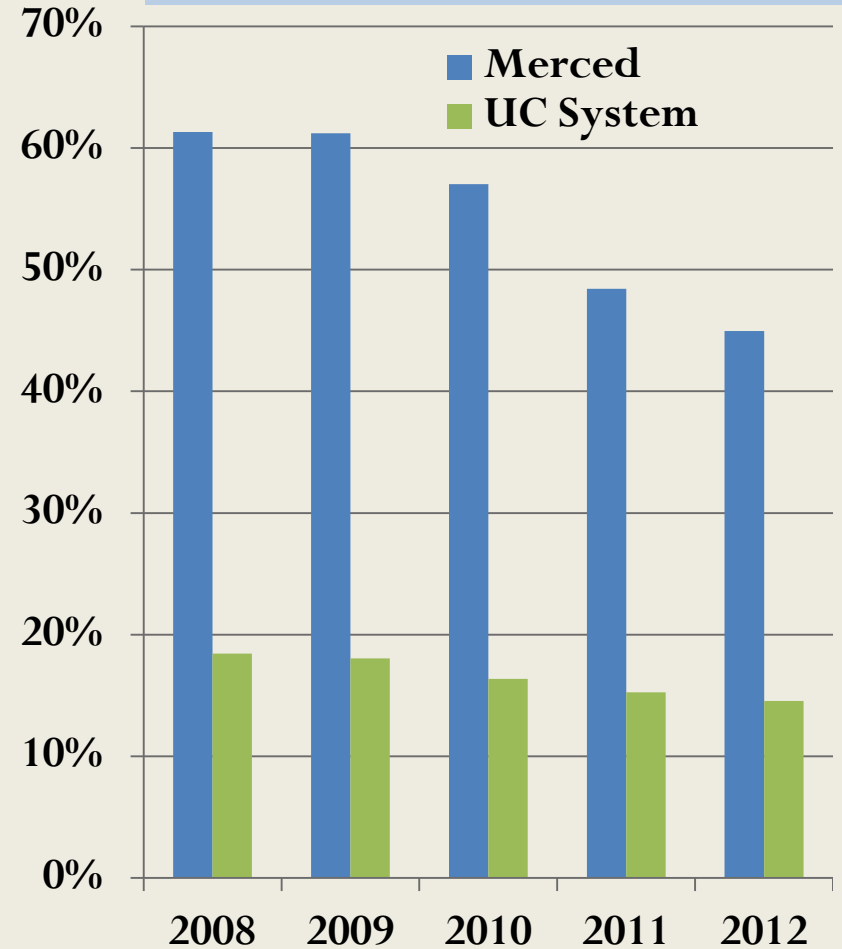
# UC Merced Faculty Are Younger and More Junior Than Their UC Peers

UC System Faculty Age Distribution Ladder-Rank Faculty



Source: Office of the President.

Percent of Untenured Ladder-Rank Faculty



Source: Office of the President.



## Observations and Lessons Learned

### **New university presents great opportunities:**

- Ability to develop and adopt new processes quickly
- Fewer institutional barriers to overcome
- Strong commitment at all levels of administration is crucial

### **Many challenges remain:**

- Difficult to incorporate a broad set of criteria for both pool and final selections
- Large service load on junior faculty takes a toll on their research activities
- Tackling URM issues is harder than gender issues

# Institutional Transformation to Build and Sustain a Diverse Community of Innovative STEM Scholars

Maureen Stanton

Vice Provost, Academic Affairs

Professor of Evolution and Ecology, University of California  
Davis

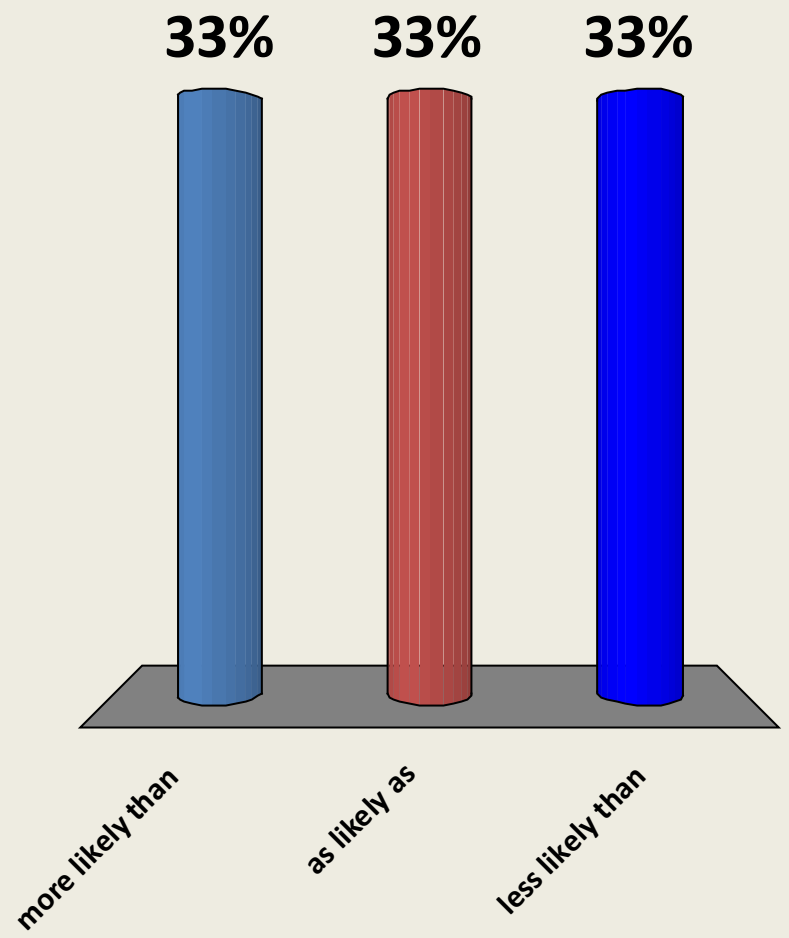


In the faculty merit and promotion process at UC Davis, women are \_\_\_\_\_ men to seek promotions on an accelerated schedule.

A. more likely than

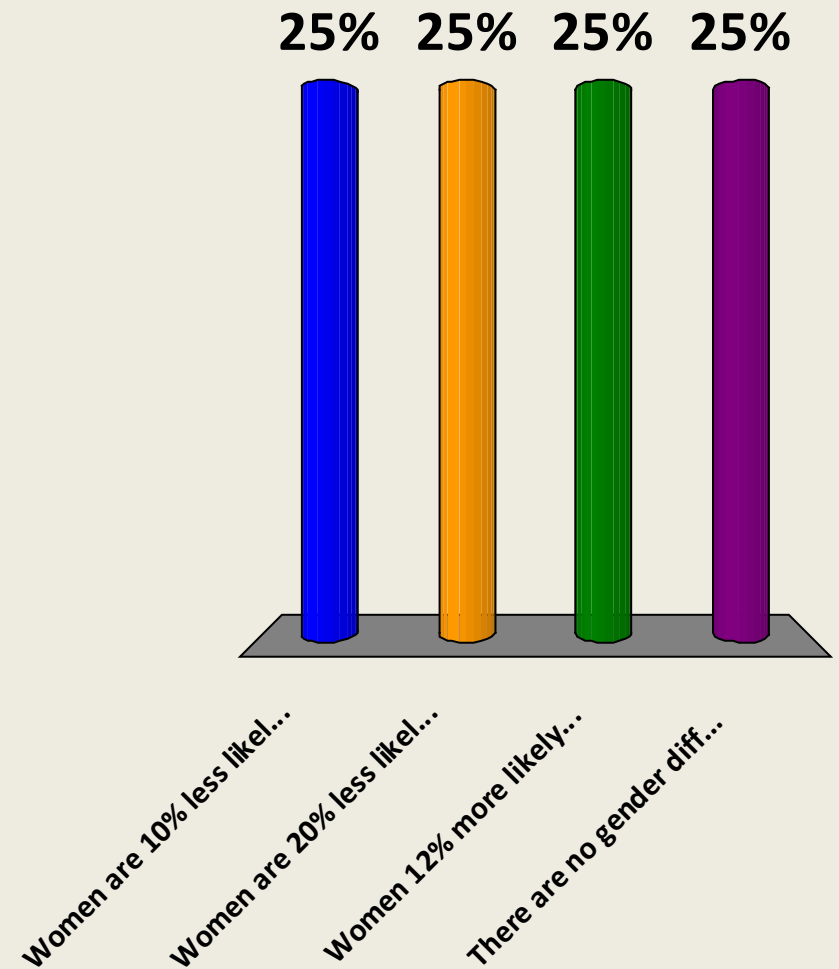
B. as likely as

✓ C. less likely than

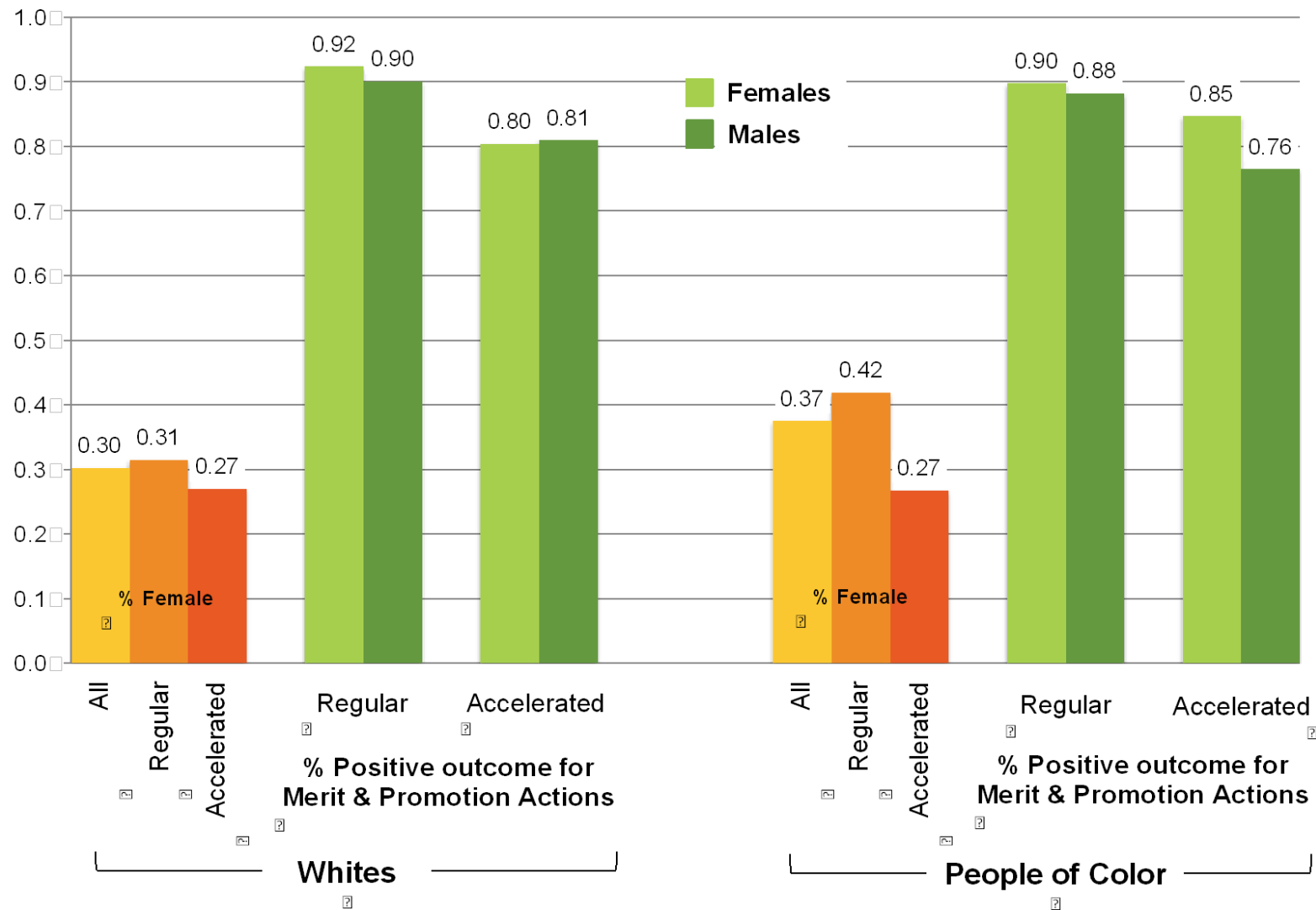


# In the merit and promotion personnel process at UC Davis, what is the gender difference in the rate of positive personnel actions among Faculty of Color?

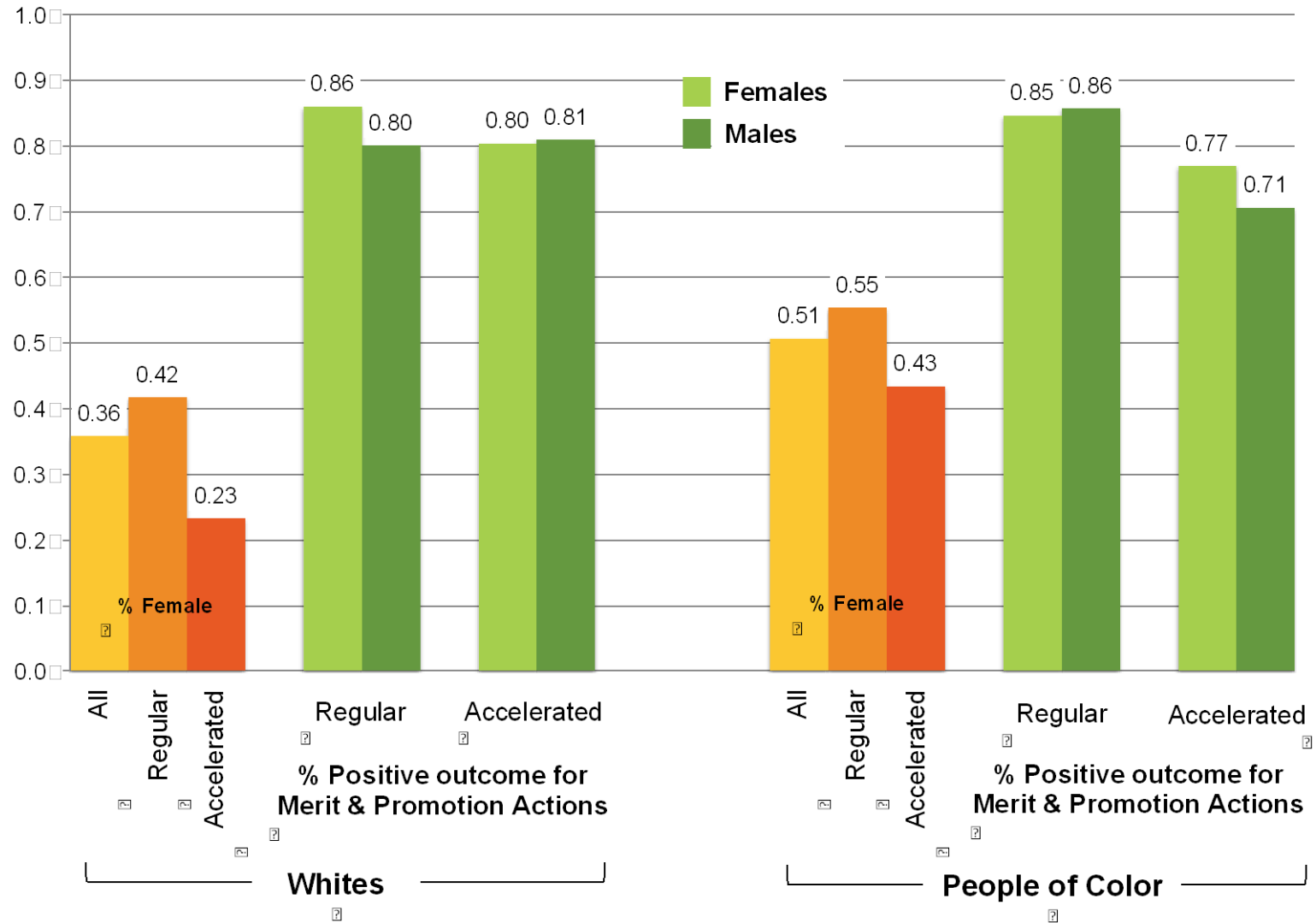
- A. Women are 10% less likely to have a positive action
- B. Women are 20% less likely to have a positive action
- C. Women 12% more likely to have a positive action
- D. There are no gender differences among faculty of color



# Percentage of positive outcomes by color and by type of personnel action: UC Davis, 2008-2012



# Promotion to tenure- -Percentage of positive outcomes by color and by timing: UC Davis, 2008-2012





# Institutional Transformation to Build and Sustain a Diverse Community of Innovative STEM Scholars



- \$3.7 million over 5 years
- Special focus on Latina STEM scholars
- Significant campus support
  - Offices of Chancellor and Provost have pledged 16 FTE
  - Equivalent of indirect costs returned to the program
  - Each STEM Dean provides significant funds and in-kind resources



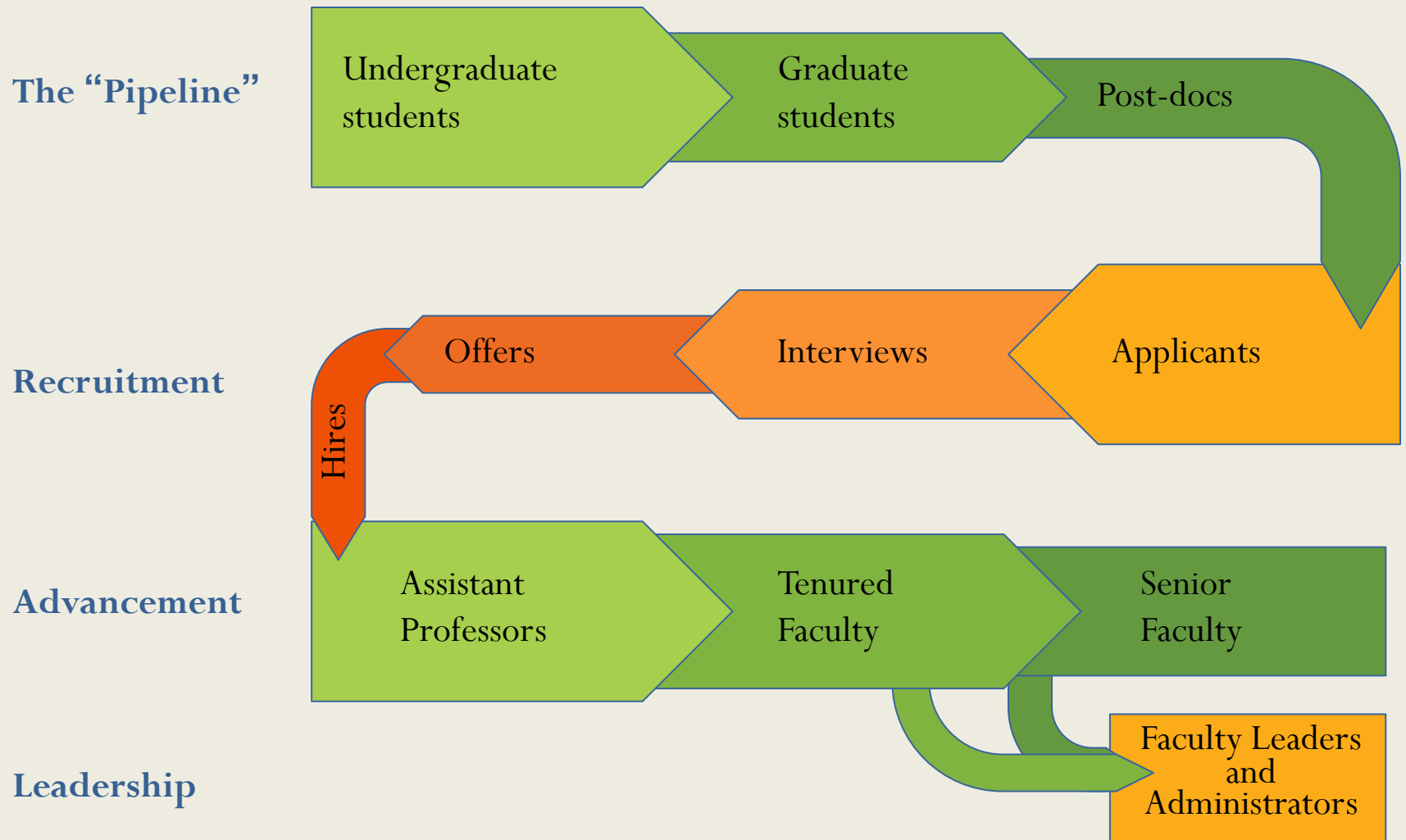
## UC Davis ADVANCE Project Overview

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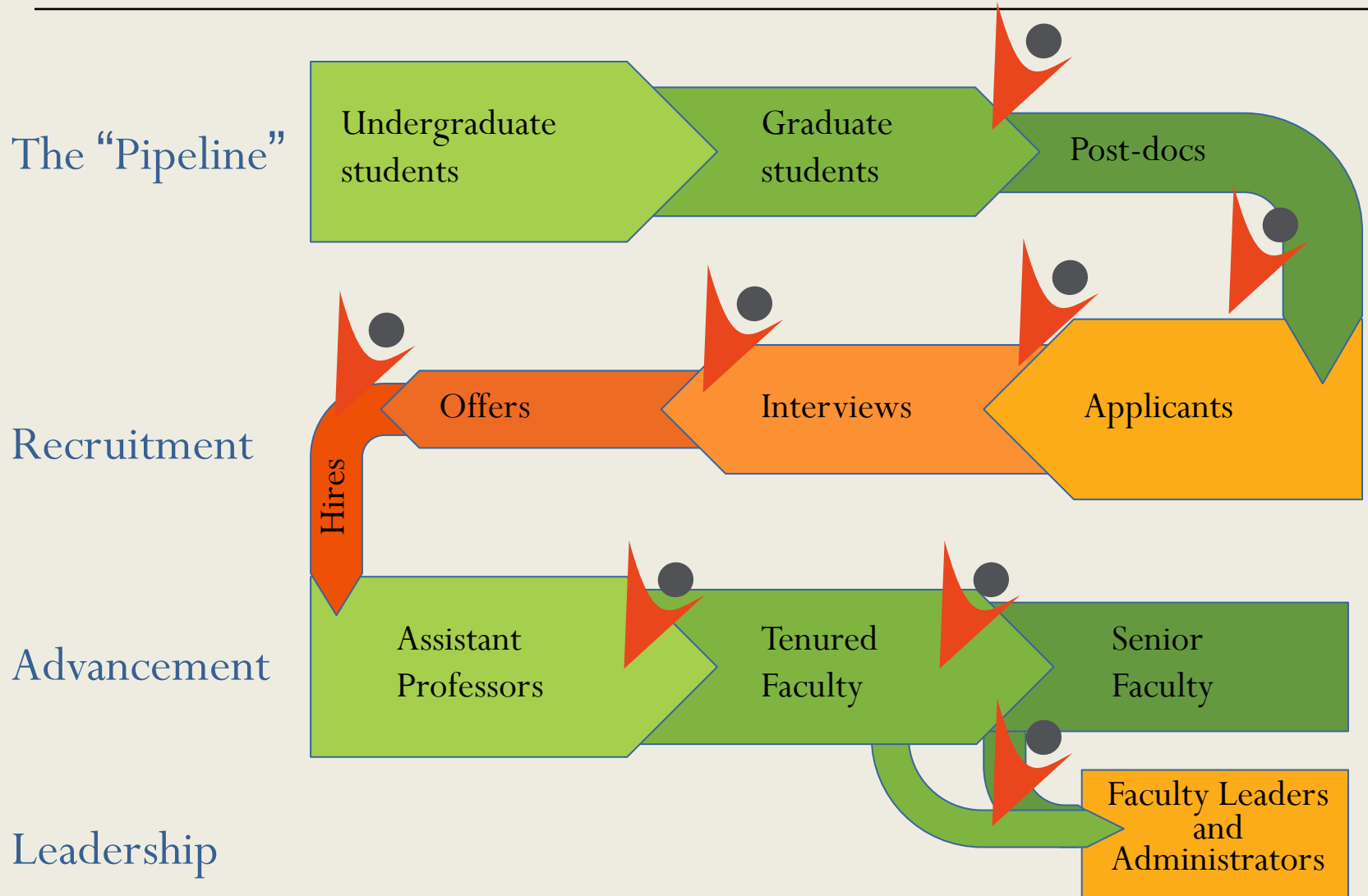
### **UC Davis ADVANCE Program initiatives**

- Build a diverse STEM research community: the CAMPOS initiative
- Establish a campus-wide, inclusive STEM climate that values diversity
- Provide tools that empower individuals for career advancement
- Understanding barriers and catalysts for Latinas in STEM

## Project Overview



# Project Overview



The "Pipeline"

Undergraduate students

Graduate students

Post-docs

Recruitment

Offers

Interviews

Applicants

Hires

Advancement

Assistant Professors

Tenured Faculty

Senior Faculty

Leadership

Faculty Leaders and Administrators

## Prior Research

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**What are the barriers encountered by people of color, especially women of color, as faculty at research universities?**

- Social and cultural isolation
- Bias and subtle and/or overt discrimination
  - Implicit bias and assumptions
  - Interpersonal micro-aggression from colleagues and students
- Less well-developed professional networks
- Greater service demands and high expectations from students of color
- Inclination to do translational/community-based research

**For a comprehensive review of literature see:**

Ong, M., et al., “Inside the Double Bind: A Synthesis of Empirical Research on Undergraduate and Graduate Women of Color in Science, Technology, Engineering, and Mathematics.” *Harvard Education Review*, 2011. 81(3):172-208.

## CAMPOS Initiative

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Center for the **A**dvancement of **M**ulticultural **P**erspectives **o**n **S**cience

- Hiring initiative
  - Recruit a senior STEM Scholar as Director of CAMPOS
  - Engage STEM deans, chairs & faculty to identify research initiatives & request new faculty positions to be recruited in research-themed clusters
  - Recruit 15 Latina and non-Latina women for CAMPOS into departments with best fit to research initiatives and best plan for inclusive recruitment, hiring, and advancement
  - Involve ADVANCE/CAMPOS leaders in hiring process for all new faculty hires

## CAMPOS Initiative

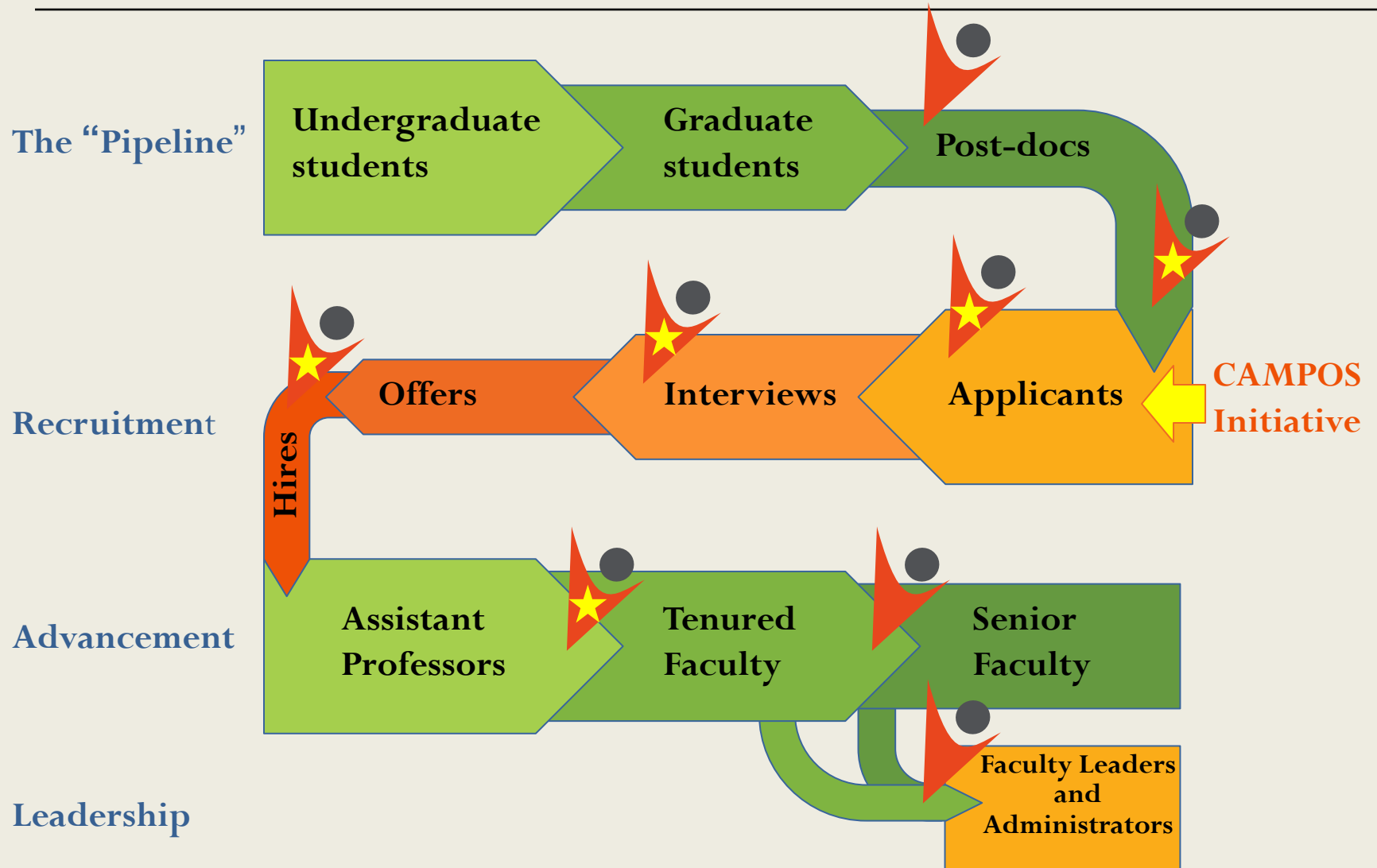
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### Center for the Advancement of Multicultural Perspectives on Science

- Center for collaboration, mentorship and translational research
  - Collaborative research incubator in a welcoming space
  - Resources
    - Eminent invited speakers
    - Grant writing mentorship and assistance
    - Graduate student research assistants
  - Research Mentorship



# CAMPOS Initiative





## CAMPOS Initiative

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### Successes

- Excitement in senior and some junior faculty already present
- Administrative buy-in: 16 FTE committed to CAMPOS Director and strategic cluster hires

### **Accountability: social sciences longitudinal research on successes of CAMPOS hires**

- Track success of CAMPOS and non-CAMPOS hires at UC Davis
- Longitudinal interviews

### Challenges

- Getting buy-in from departments and deans for the programmatic hiring initiative
- Getting the word out to the community of potential applicants
- Transforming culture— *bias is ubiquitous, and diversity adds value to STEM!*

## UC Davis ADVANCE Program Space

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# National Science Foundation Grants

- *UC ADVANCE PAID*. Grant no. HRD1106712  
<http://www.ucop.edu/ucadvance/index.html>
- *Moving FORWARD for Women in STEM Fields at UC Riverside and Beyond*. Grant no. 1107245  
<http://diversity.ucr.edu/paid>
- *[UC Davis ]ADVANCE: Institutional Transformation to Build and Sustain a Diverse Community of Innovative STEM Scholars*. Grant no. 1209235
- *ADVANCE/IT Catalyst GROW-STEM: Gaining Representation Of Women (GROW) - Systemically Transforming Excellence in [UC] Merced (STEM)*. Grant no. 1008044
- *UC Irvine ADVANCE Program for Equity and Diversity*. Grant nos. [2001-2006] #SBE0123682 and [2007-2009] #SBE0620123  
<http://advance.uci.edu/>

# Meeting the California Challenge: The University of California's Partnership to Advance Faculty Diversity in STEM

Keeping Our Faculty of Color Symposium  
April 15, 2013—University of Minnesota

