

Repairing the Education Pipeline: Data & Strategies for Targeted Interventions



Research Questions

Data

What “specifics” can be given for the UC Freshman pipeline?

Strategies

What interventions are likely to produce an increase in the number and percent of UC URM Freshman?



Methodology

Data Gathering

Use most recent year common to all data sources

Data Wrangling

Subset/aggregate to common population/categories

Data Exploration

Find trends using Exploratory Data Analysis (EDA)



Data Sources

CDE

Class of 2014 Graduation Data

The College Board

Class of 2014 SAT Data

UCOP Data Warehouse

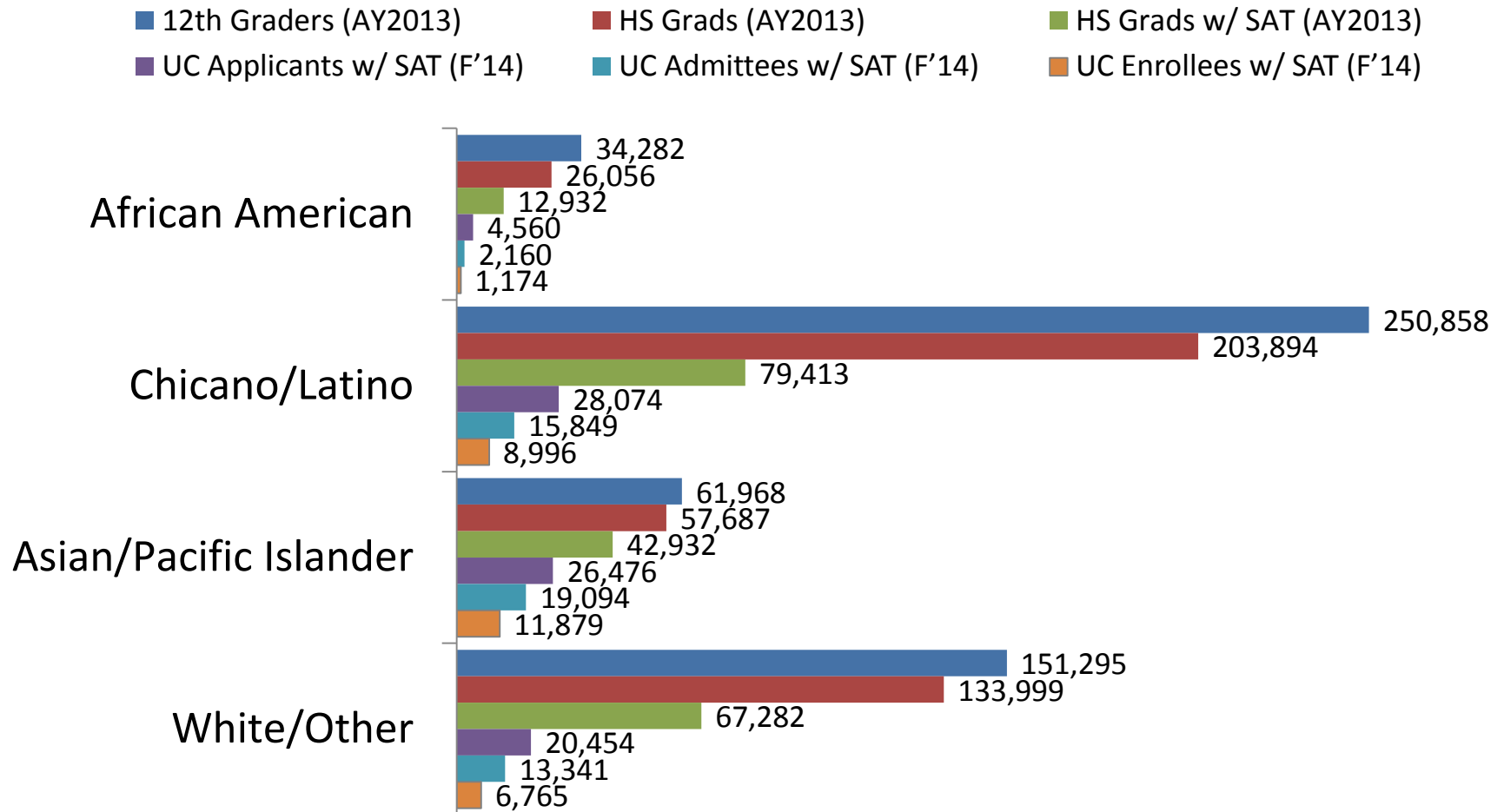
Fall 2014 UC Application Data



Data Wrangling Example

	12th Graders (AY2013)	HS Grads (AY2013)	HS Grads w/ SAT (AY2013)	UC Applicants w/ SAT (F'14)	UC Admittees w/ SAT (F'14)	UC Enrollees w/ SAT (F'14)
African Am.	34,282	26,056	12,932	4,560	2,160	1,174
Chicano/Lat.	250,858	203,894	79,413	28,074	15,849	8,996
Asian/Pac. Isl.	61,968	57,687	42,932	26,476	19,094	11,879
White/Other	151,295	133,999	67,282	20,454	13,341	6,765
American Ind.	3,625	2,830	1,237	544	330	168
White	134,385	120,855	55,502	17,918	11,678	5,874
Other/Unkwn.	13,285	10,314	10,543	1,992	1,333	723
URM	347,108	287,637	135,277	59,110	37,103	22,049
Total	498,403	421,636	202,559	79,564	50,444	28,814

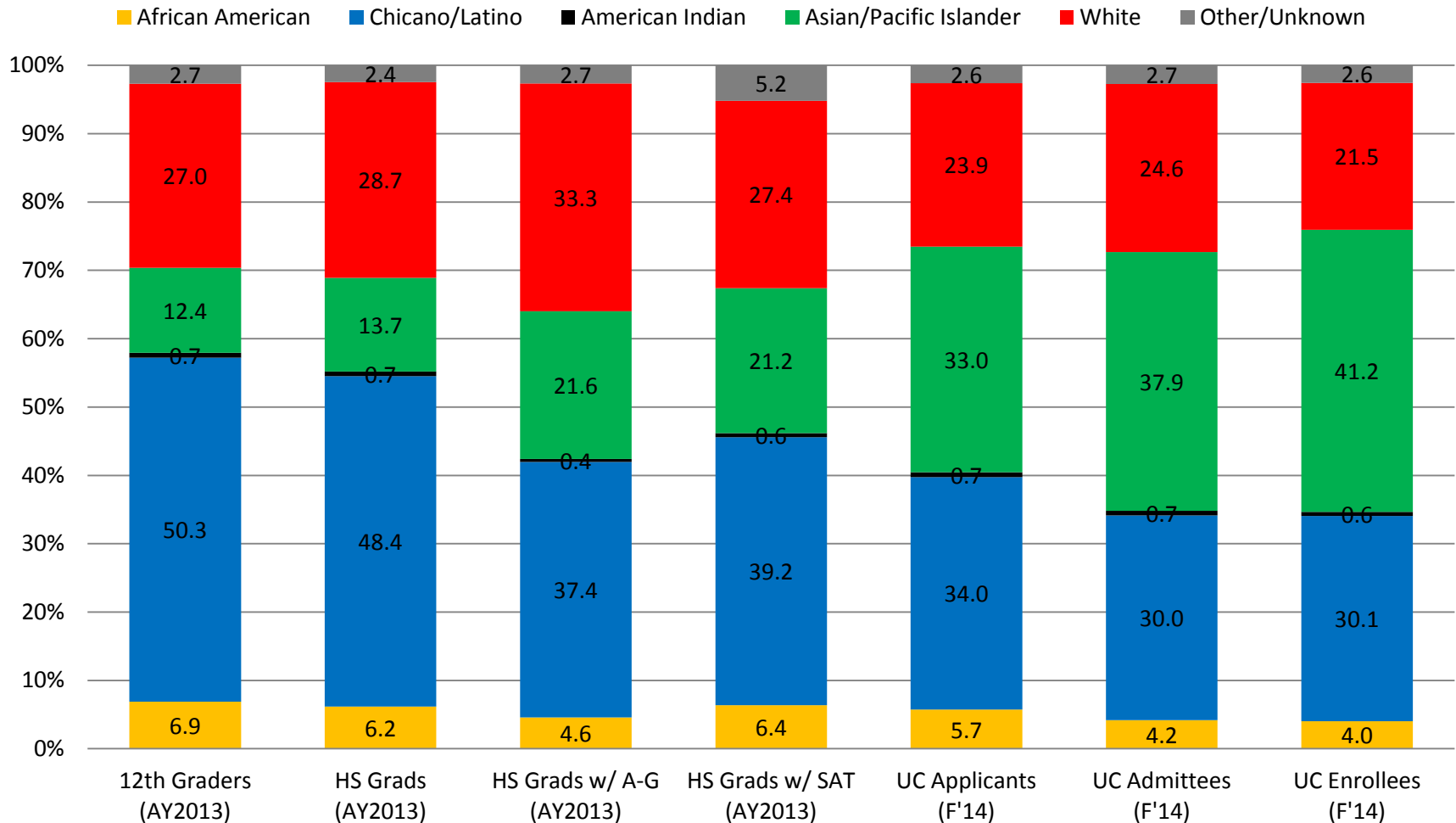
Data Exploration Example



Results



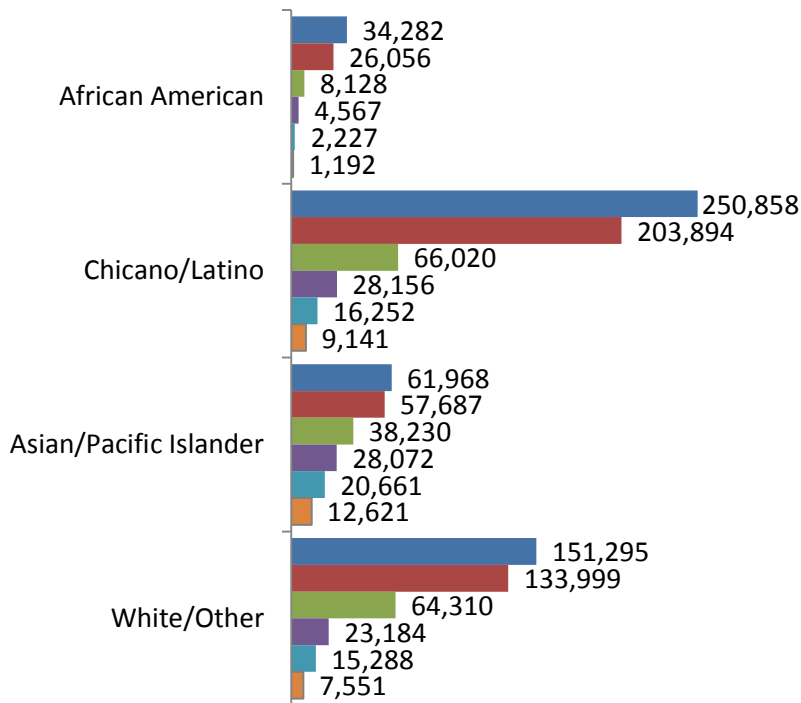
CA Public High School Pipeline to UC



Parallel UC Pipelines

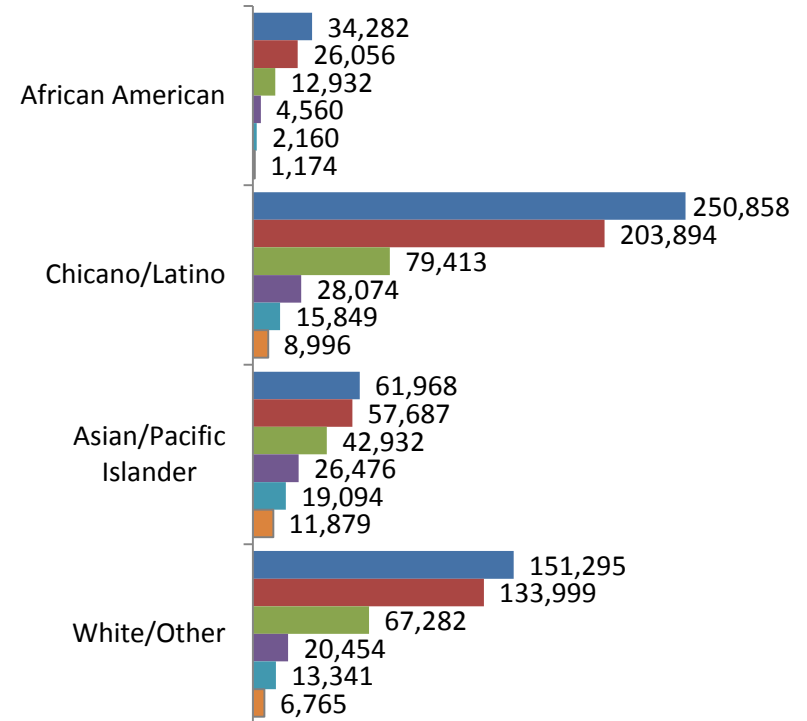
A-G Completers

- 12th Graders (AY2013)
- HS Grads w/ A-G (AY2013)
- UC Admittees w/ A-G (F'14)
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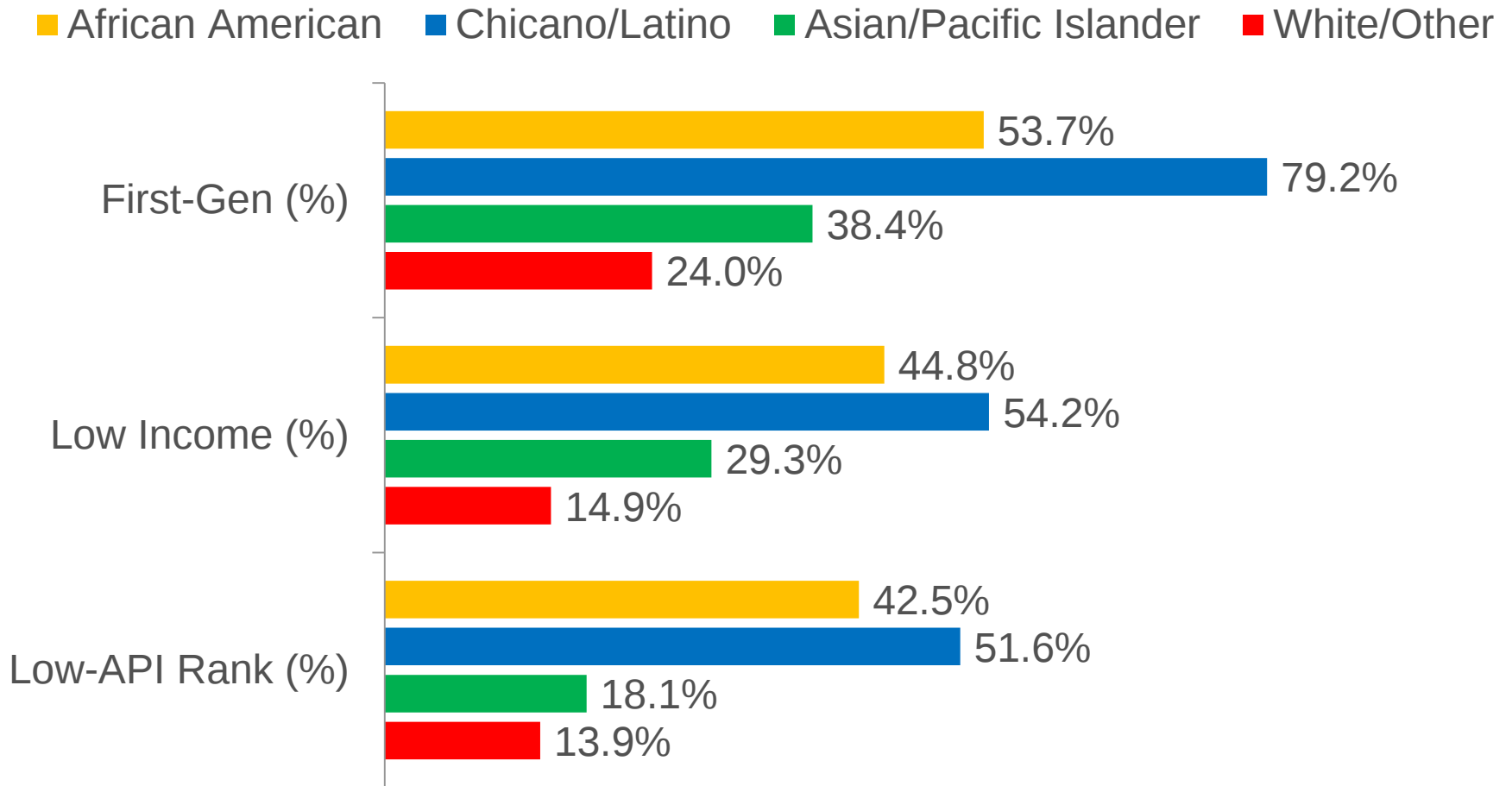


SAT Takers

- 12th Graders (AY2013)
- HS Grads w/ SAT (AY2013)
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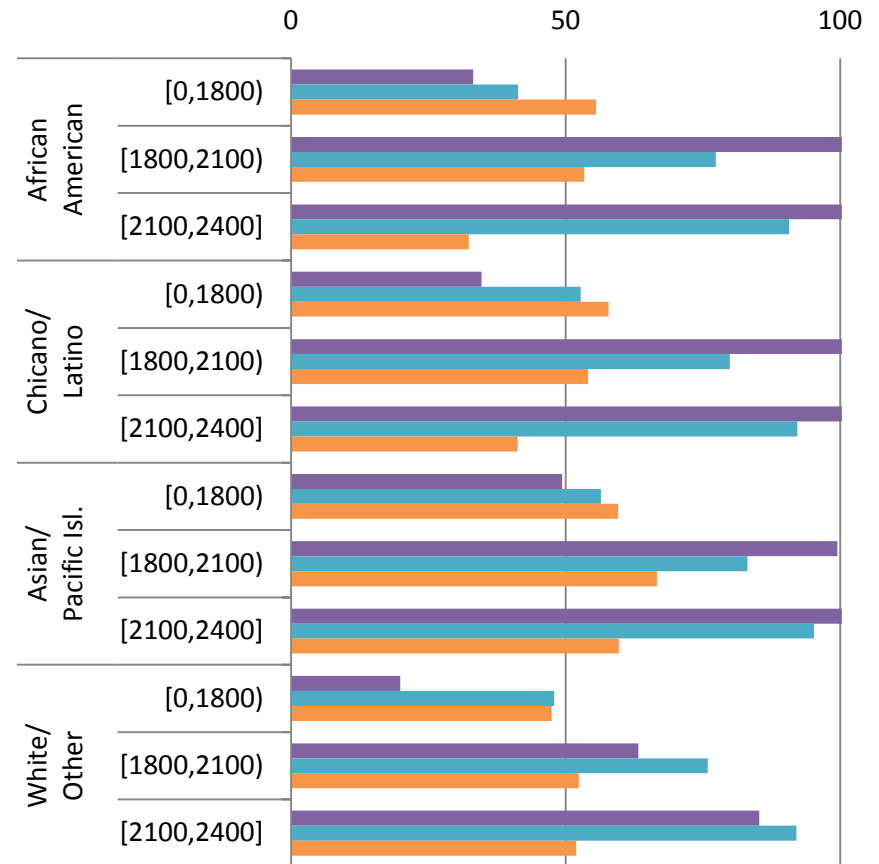
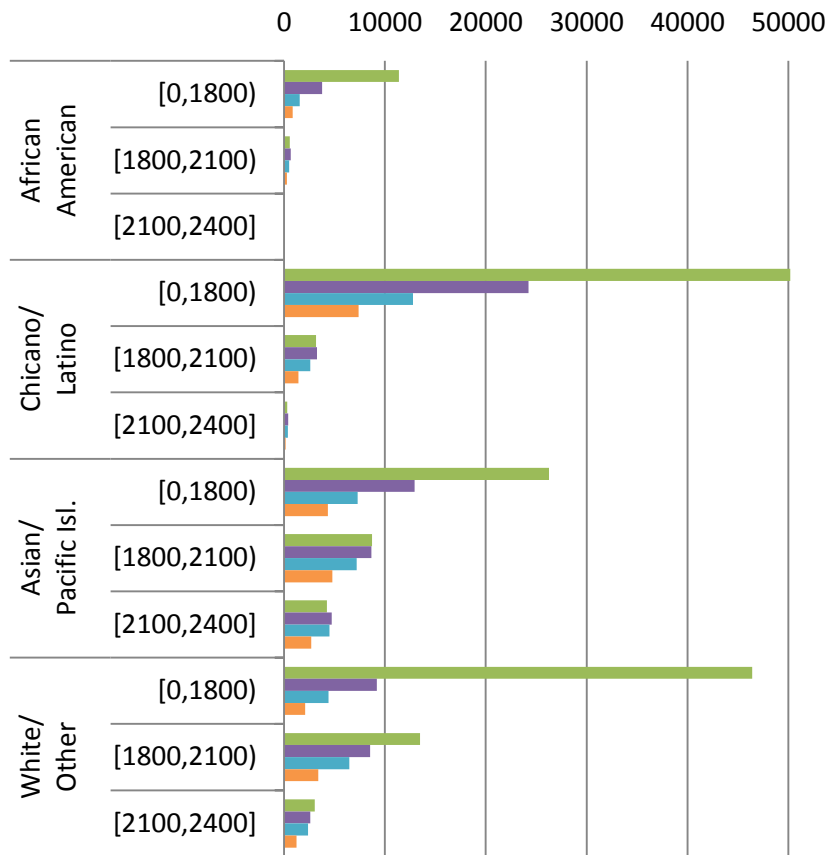
Pipeline Demographics, F'14 UC Applicants



Pipeline by SAT-Total Score, F'14

■ HS Grads w/ SAT (AY2013)
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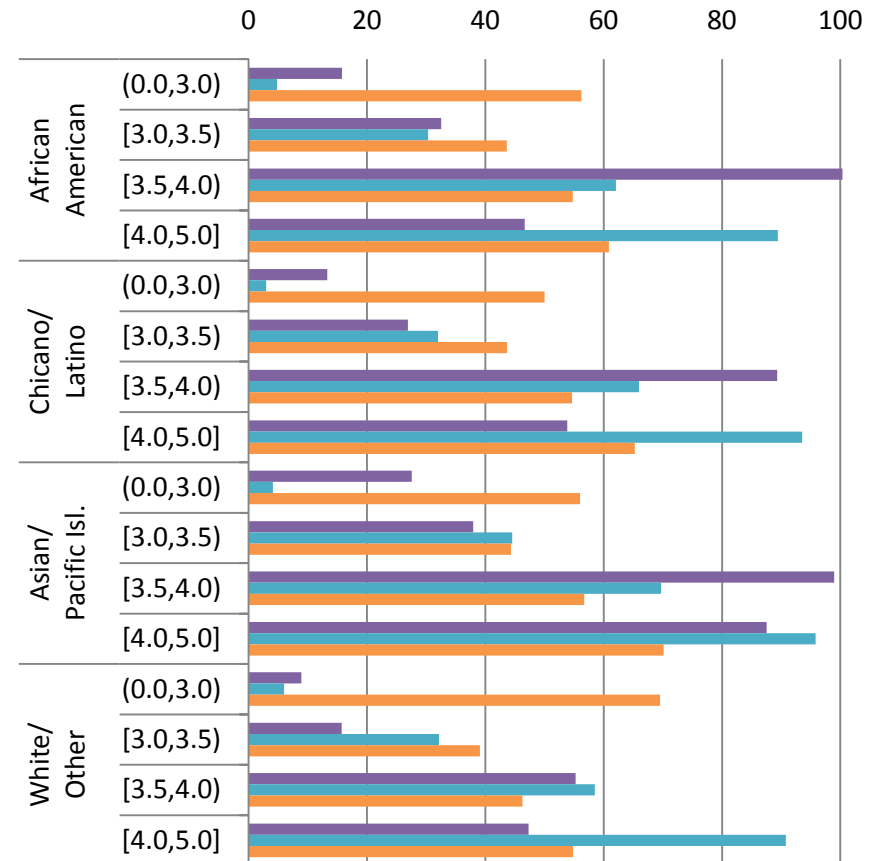
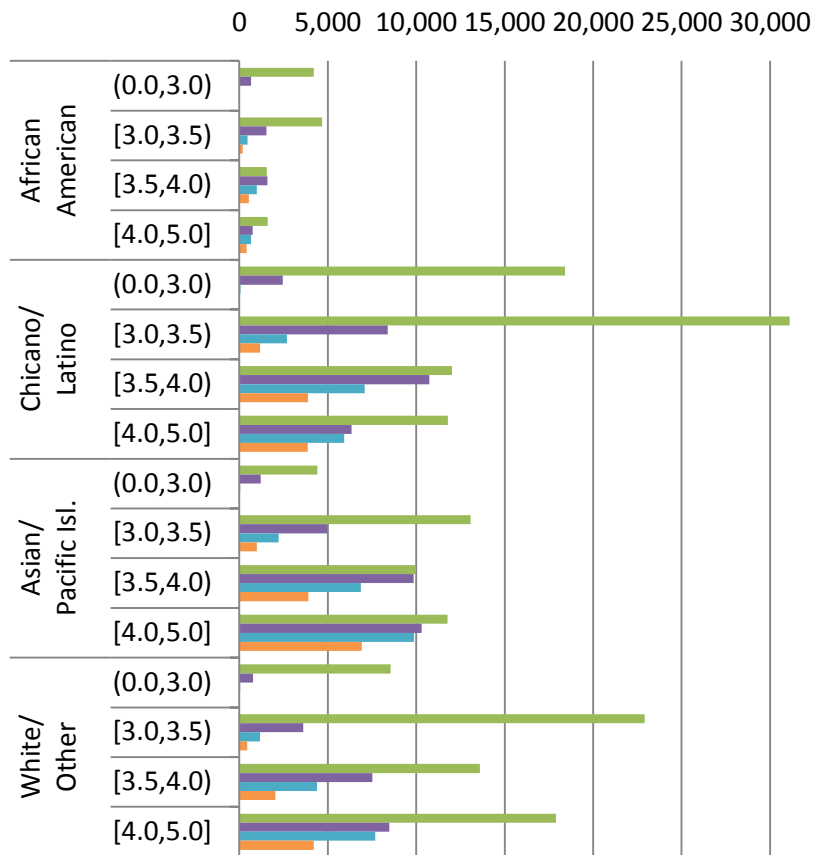
■ Application Rate
 ■ Admit Rate
 ■ Enrollment Yield



Pipeline by High School GPA, F'14

■ HS Grads w/ SAT (AY2013) ■ UC Applicants w/ SAT (F'14)
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■ Application Rate ■ Admit Rate ■ Enrollment Yield



African American Pipeline Summary

Share

The share in UC Enrollment does not significantly change

Unique Needs

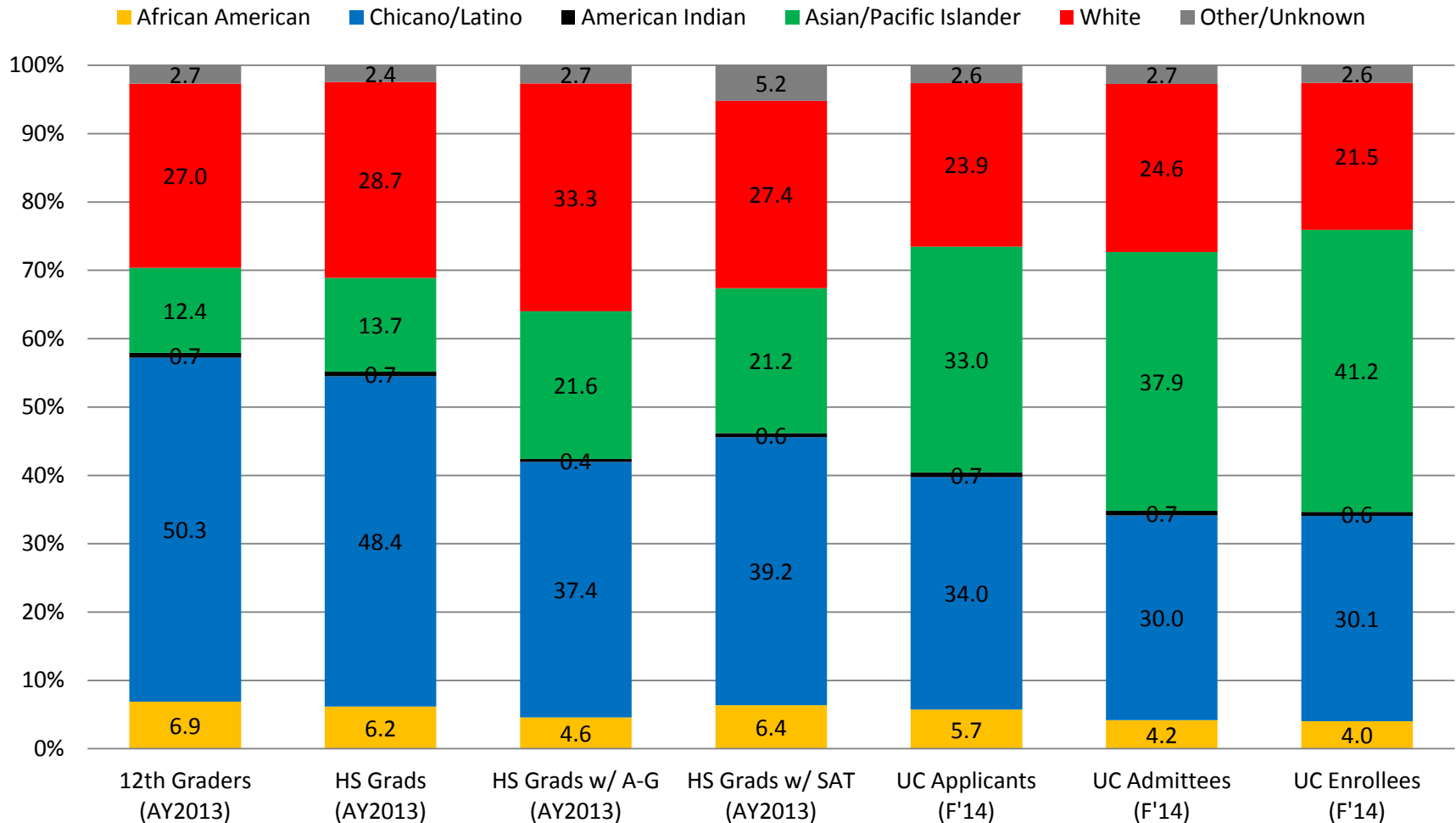
Unique demographics

Untapped

Several untapped pools



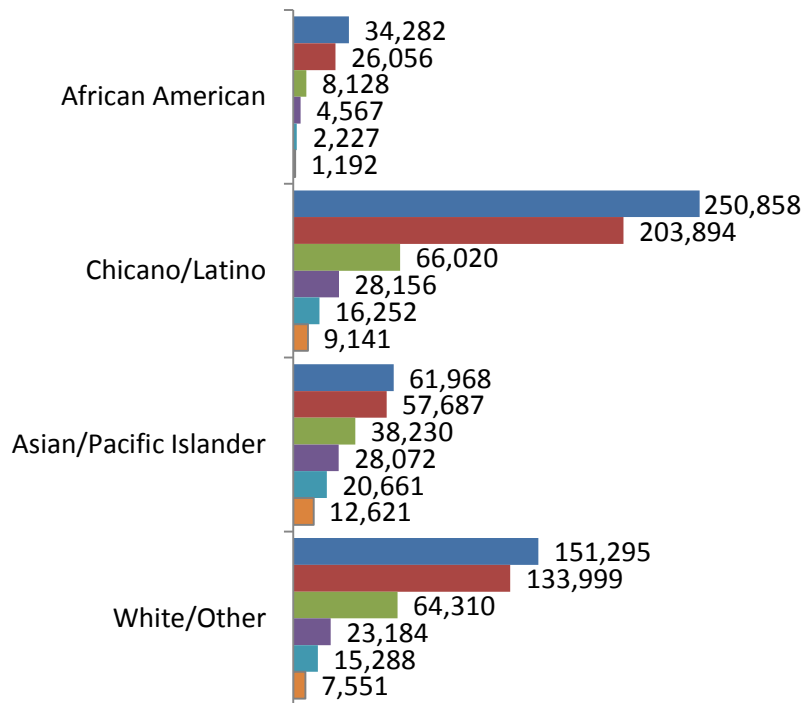
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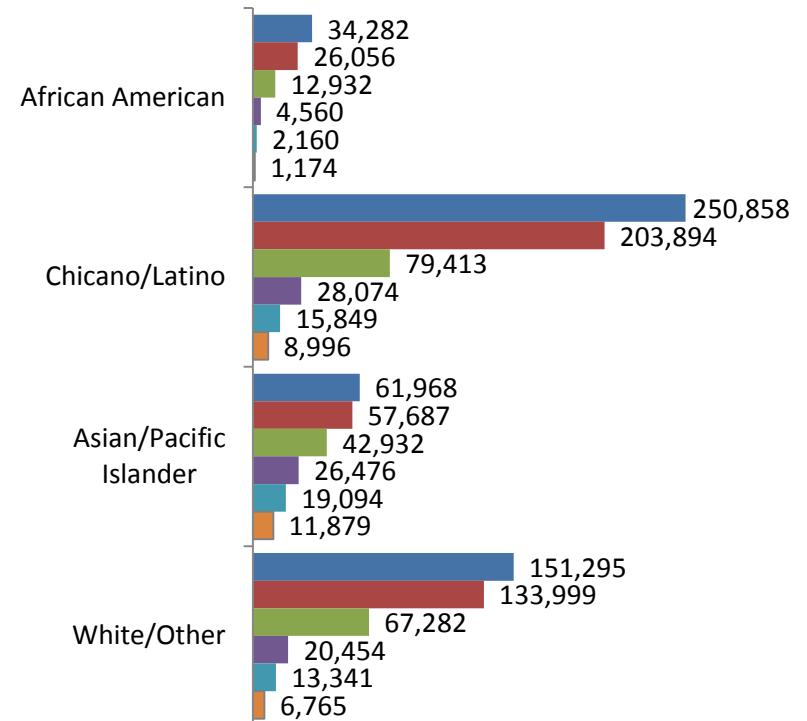
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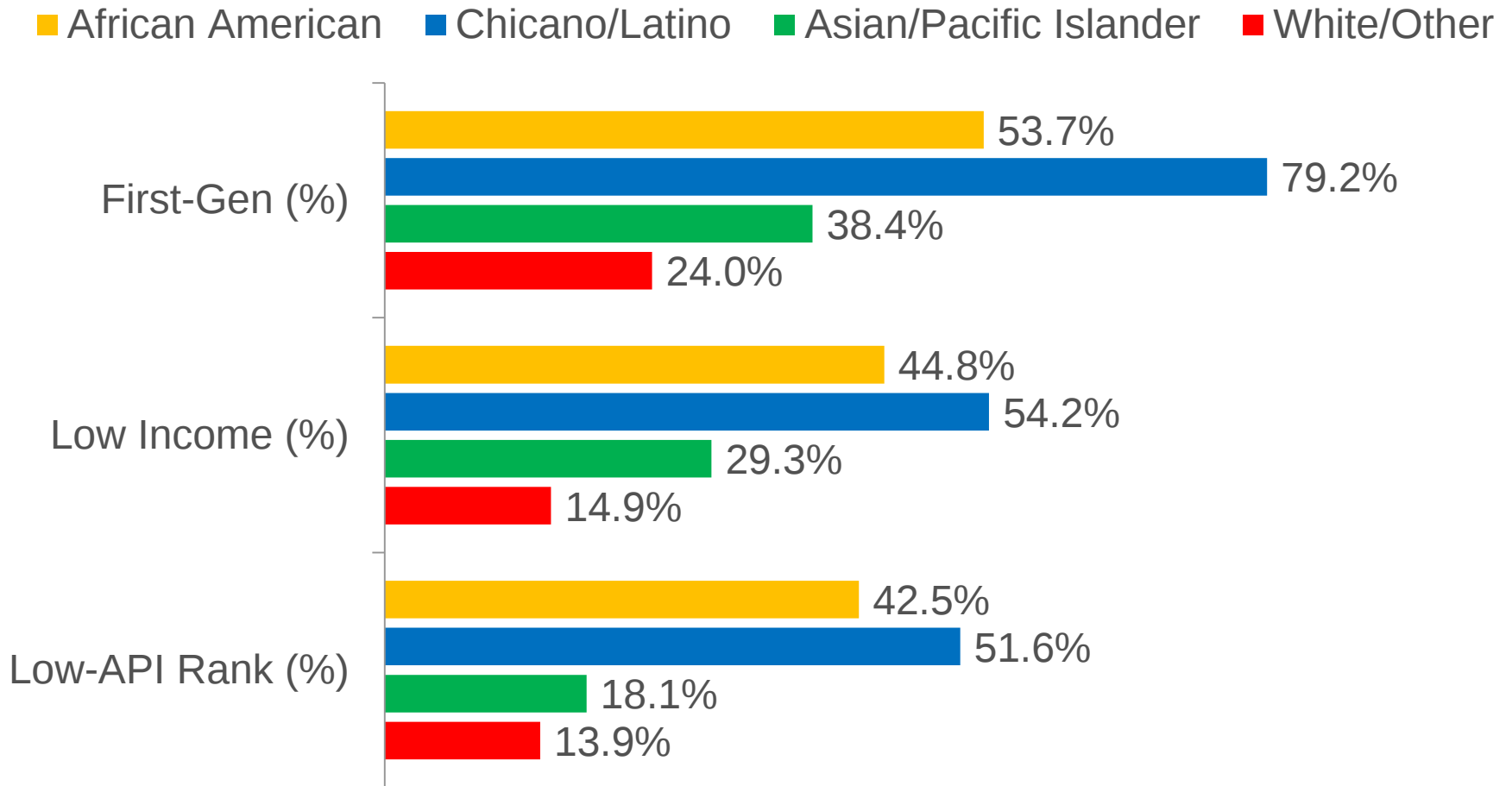


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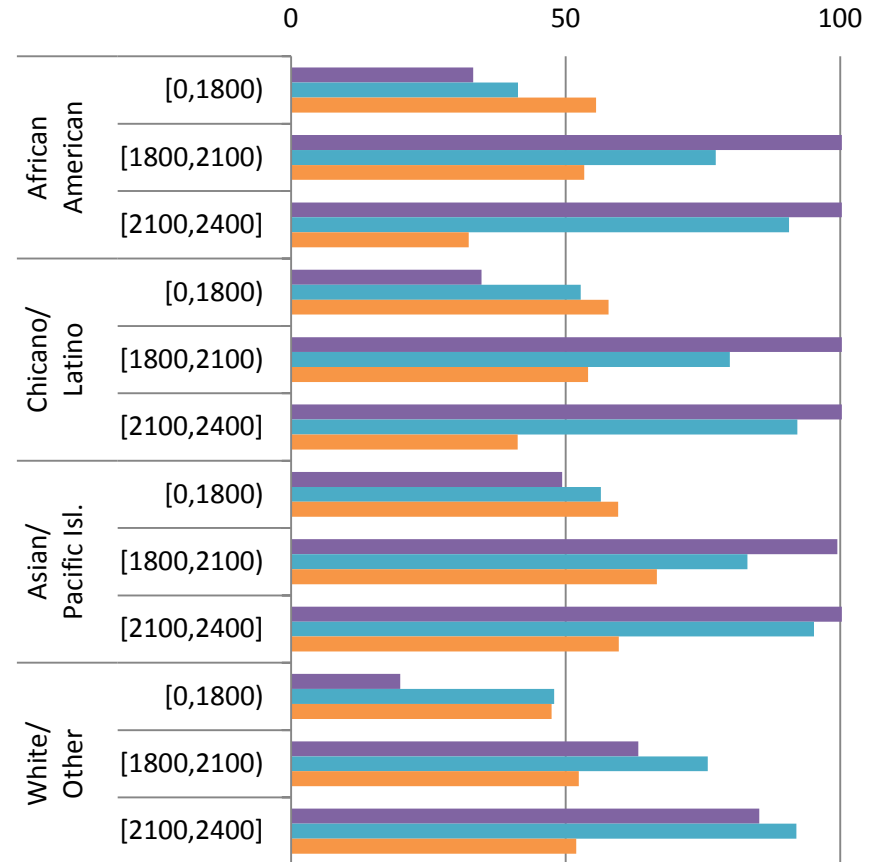
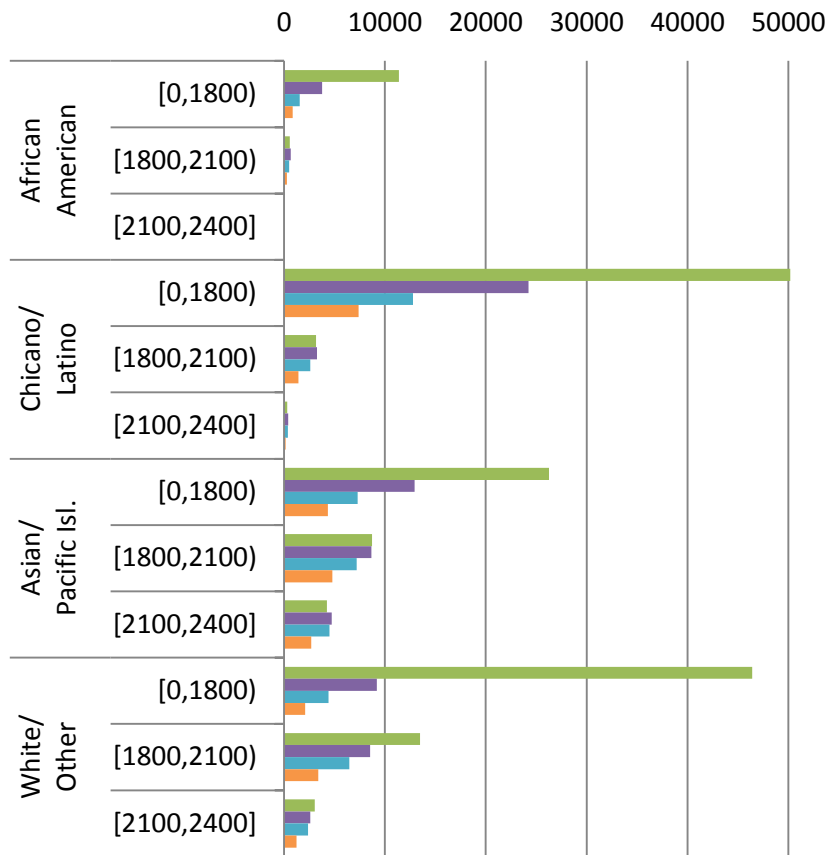
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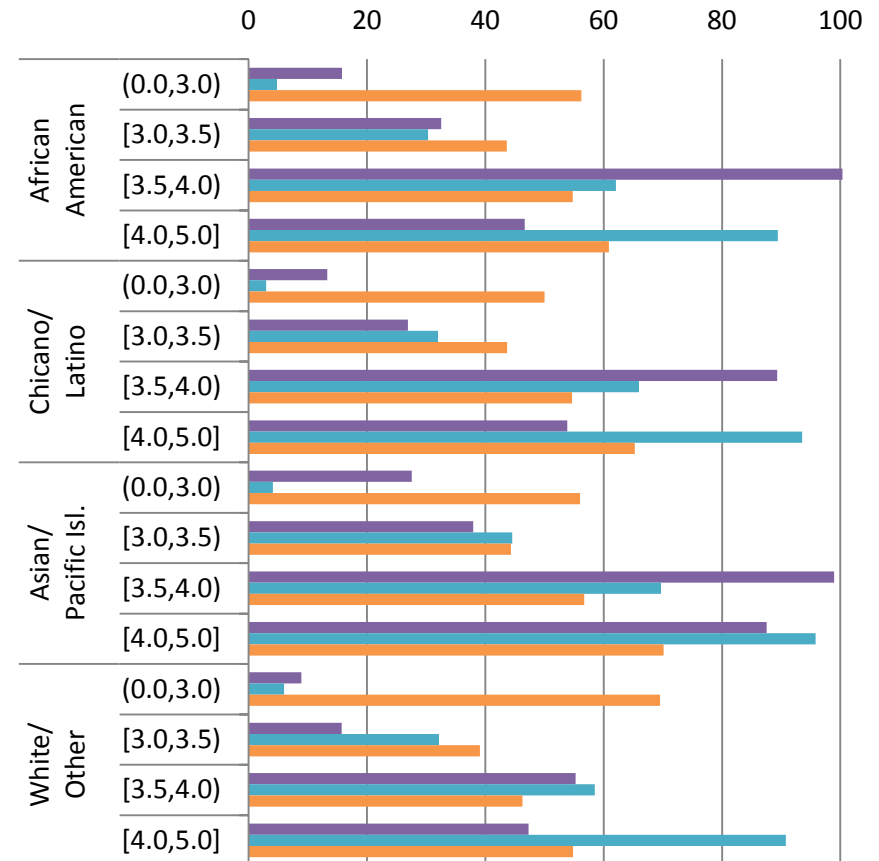
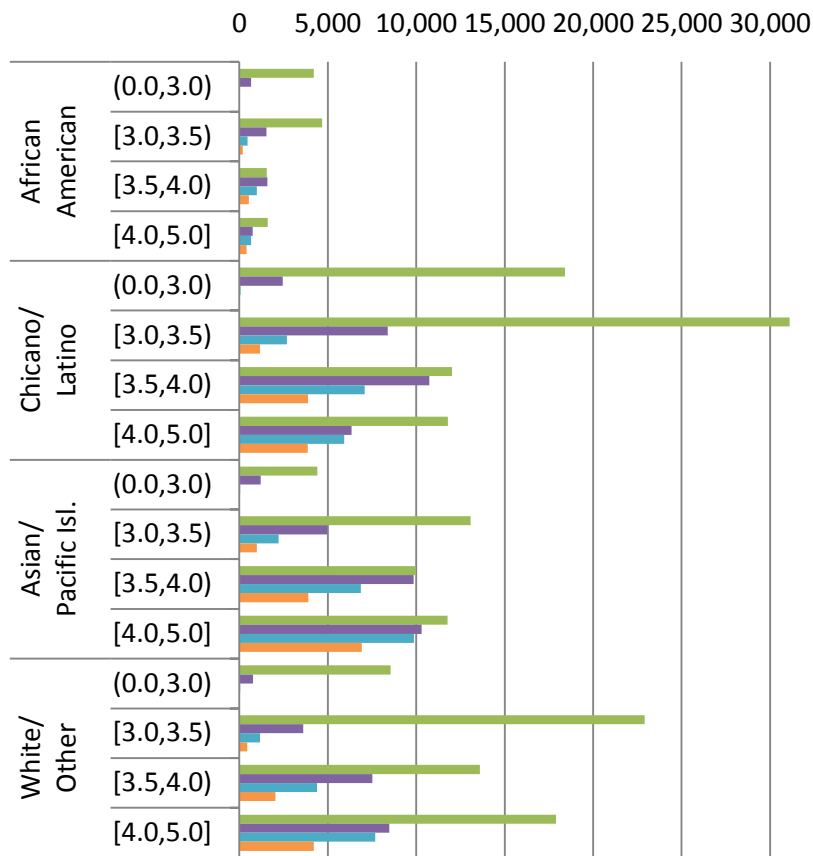
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■ Application Rate ■ Admit Rate ■ Enrollment Yield



Chicano/Latino Pipeline Summary

Size

Biggest population

Unprepared

College readiness

Unique Needs

Unique demographics

Untapped

Several untapped pools



Conclusions & Next Steps



Discussion

Undermatching

Are URM students less willing to be told “no”?

Strategic Efforts

What roles can ad-hoc strategies like Pre-College Scholars and Achieve UC play in increasing UC applications?

Increasing Yield

What roles can outreach programs like EAOP, MESA, and Puente play in increasing UC yield?





Follow up

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