

Got Data? Now What?

CGS Summer Workshop 2016 Savannah, GA

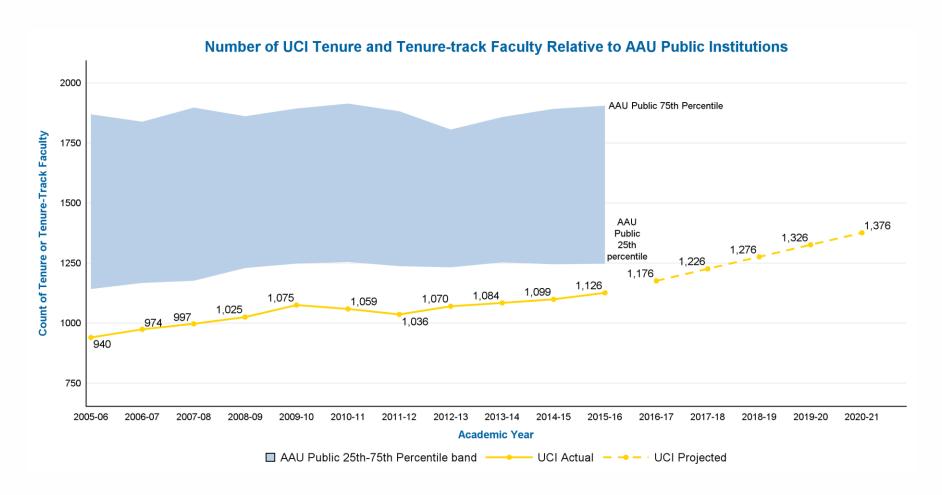
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Challenges facing UC Irvine

- In response to declining CA State budget, UCI turned to new sources of revenue
- This included tuition from international and master's students
- Undergraduate enrollment increased 12.5% from 2012-15, with out-of-state enrollments increasing by 165%
- State lawmakers are now requesting increased enrollment of CA residents

There is a need to grow faculty numbers to meet demand

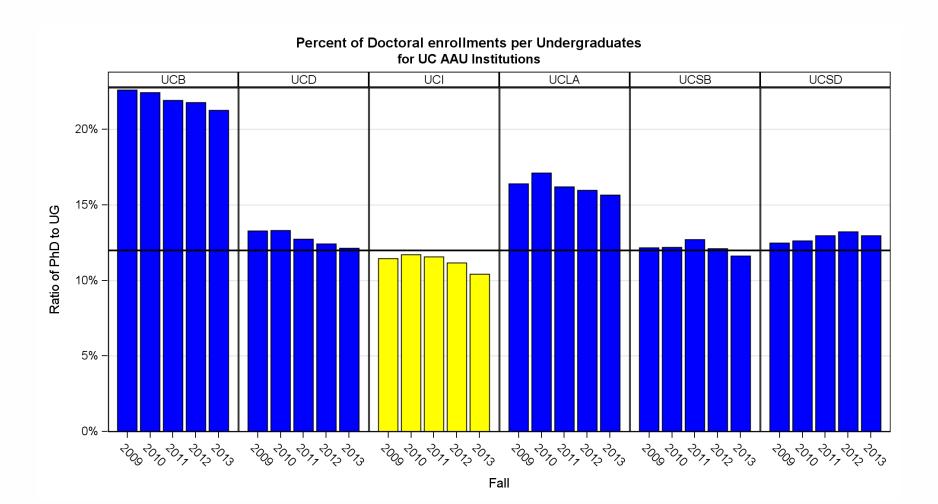


PhD enrollments per faculty have been declining over the last decade

Year	Faculty	PhD	Ratio
2005	803.89	2412	3.00
2006	819.31	2451	2.99
2007	849.91	2536	2.98
2008	886.68	2579	2.91
2009	873.81	2535	2.90
2010	849.18	2453	2.89
2011	867.35	2437	2.81
2012	878.53	2336	2.66
2013	883.34	2339	2.65
2014	900.55	2413	2.68

^{*}General campus FTE (excludes Law)

Increasing imbalance between doctoral and undergraduate enrollment

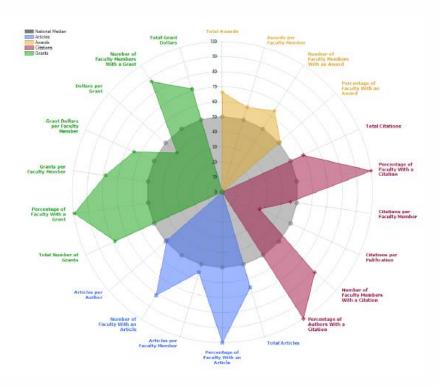


How much doctoral enrollment growth do we need?

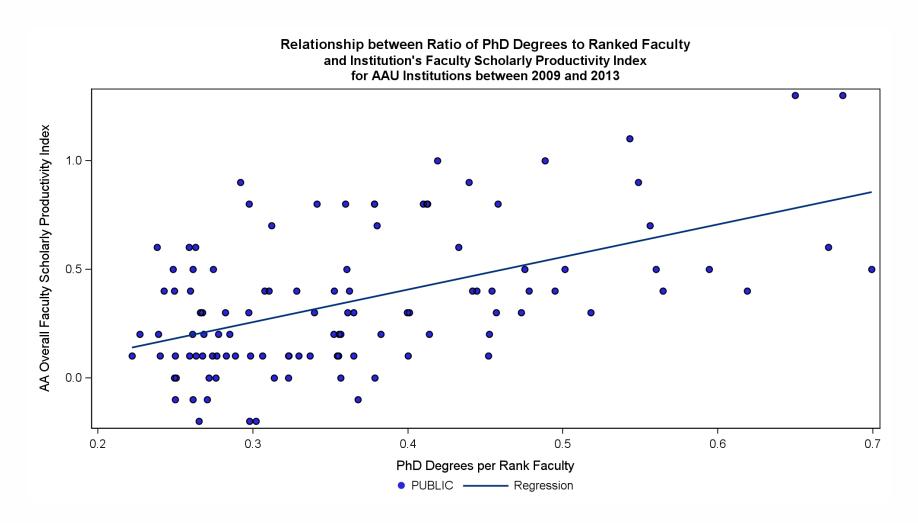


Academic Analytics calculation of faculty scholarly productivity



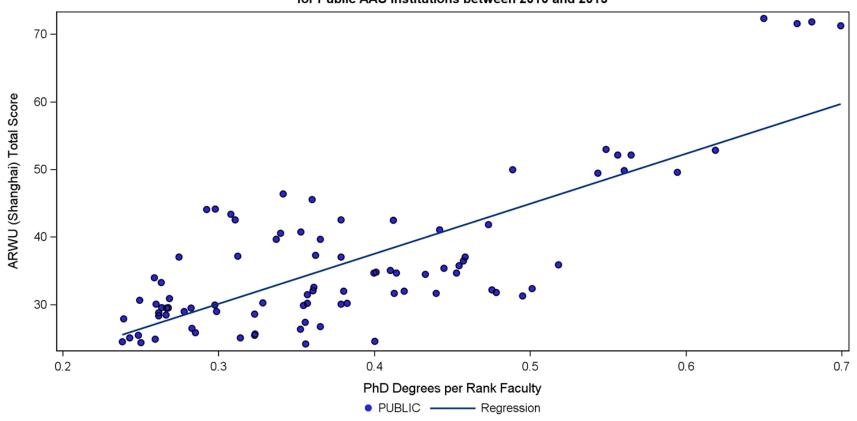


PhD degrees awarded per faculty are correlated with faculty productivity



PhD degrees awarded per faculty are correlated with global rankings

Relationship between Ratio of PhD Degrees to Ranked Faculty and Institution's ARWU (Shanghai) Total Score for Public AAU Institutions between 2010 and 2013



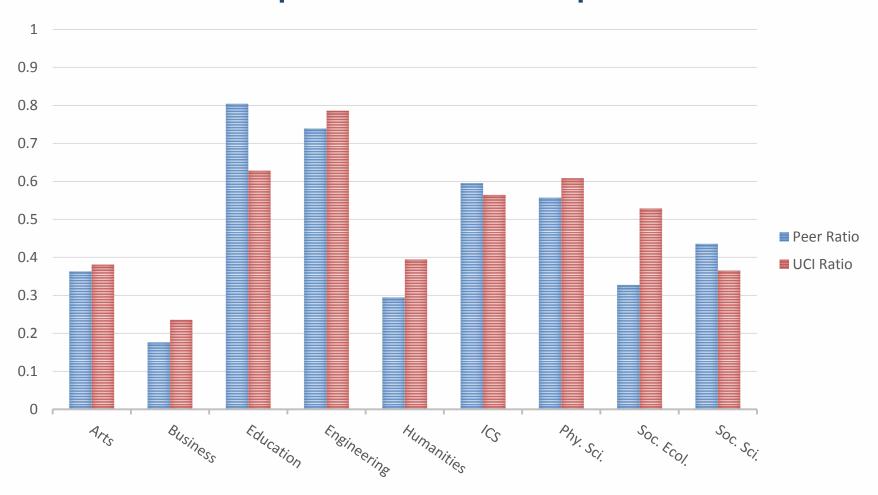
Long Range Enrollment Plan (January 2015)

	Annual increase above previous year										
Student Level	CA	Netpayer	Total								
	Resident										
New Freshmen	+25	+125	+150								
New Transfers	+45	+43	+88								
New Acad-Doctoral	+25	+20	+45								
State funded:											
New Masters (Acad &	+10	+10	+20								
Prof)											

Benchmarking UC Irvine Ph.D. Programs

- Identified 8-10 AAU Public peers of each UCI Ph.D. program
- Peers defined as 4-5 programs ranked above, and 4-5 below a given UCI program in terms of overall Academic Analytics FSPI scores
- Confirmed with program faculty that these were peers
- Using AAUDE dataset, computed three-year average of Ph.D. degrees/faculty for UCI and peer programs
- Provided each dean with UCI and peer Ph.D. degrees/faculty for his or her school to inform their Ph.D. growth planning processes

PhD/faculty at UCI schools compared to AAU peers



Diversity Goals

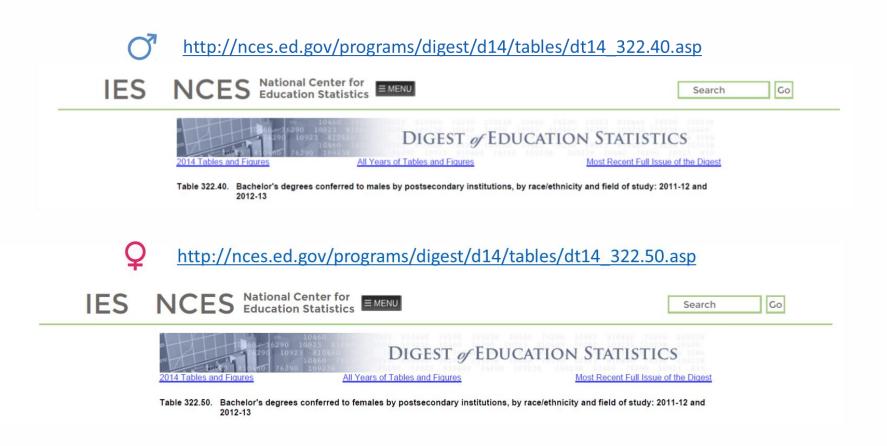
UCI Strategic Goal

 Ensure that UCI's educational opportunities are an engine for social mobility, impact and positive innovation

Proposition 209

 Is a California ballot proposition which, upon approval in November 1996, amended the state constitution to prohibit state governmental institutions from considering race, sex, or ethnicity, specifically in the areas of public employment, public contracting, and public education

Establish potential applicant availability



NCES data table

Table 322.40. Bachelor's degrees conferred to males by postsecondary institutions, by race/ethnicity and field of study: 2011-12 and 2012-13

Table 322.40. Bachelor's degrees conferred to males I	y posts	econdary	instit	utions			icity and	rield of	study:	: 2011-	ı∠ and 2	012-13								
	2011-12															12-13				
					Asian/E	Pacific	Islander	American		Non-					Asian/I	Pacific	Islander	American		Non-
								Indian/	Two or	resi-								Indian/	Two or	resi-
				His-			Pacific	Alaska	more	dent				His-			Pacific	Alaska	more	dent
Field of study	Total	White	Black	panic	Total	Asian	Islander	Native	races	alien	Total	White	Black	panic	Total	Asian	Islander	Native	races	alien
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
All fields, total	765,772	532,463	63,736	67,083	57,521	55,525	1,996	4,476	10,945	29,548	787,231	535,082	67,306	74,043	59,802	57,563	2,239	4,616	14,032	32,350
Biological and biomedical sciences	39,542	25,271	2,157	3,115	6,978	6,871	107	222	659	1,140	41,511	26,175	2,361	3,571	7,174	7,065	109	222	853	1,155
Business							541	975	2,173	10,619	187,789	124,414	17,290	16,828	13,873	13,307	566	979	2,741	11,664
Computer and information sciences	38,796	25,691	3,768	3,257	3,428	3,313	115	200	577	1,875	41,874	26,958	4,360	3,621	4,077	3,935	142	218	742	1,898
Education	21,714	17,704	1,773	1,194	440	389	51	173	199	231	21,805	17,461	1,892	1,292	461	415	46	169	296	234
Engineering	65,819	44,780	2,429	4,942	7,490	7,358	132	246	896	5,036	69,425	46,194	2,737	5,565	8,213	8,055	158	277	1,135	5,304
Engineering technologies and engineering-related																				
fields\1\	14,951	11,208	1,376	1,021	624	603	21	132	154	436	14,742	10,668	1,414	1,194	624	594	30	149	166	527
English language and literature/letters	16,976	13,007	1,058	1,614	745	716	29	104	312	136	16,515	12,300	1,089	1,759	768	732	36	99	340	160
Family and consumer sciences/human sciences	2,693	1,746	433	214	188	179	9	15	37	60	2,872	1,809	429	283	199	187	12	17	59	76
Foreign languages, literatures, and linguistics	6,629	4,677	252	1,023	377	365	12	38	138	124	6,847	4,611	295	1,164	426	412	14	43	176	132
Health professions and related programs	24,905	16,411	2,710	2,106	2,664	2,537	127	129	354	531	28,214	18,310	3,104	2,504	3,050	2,900	150	189	502	555
Liberal arts and sciences, general studies, and																				
humanities	16,953	11,785	2,326	1,404	626	570	56	185	282	345	16,968	11,601	2,393	1,547	554	502	52	168	354	351
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Mathematics and statistics	10,722	7,284	508	714	1,104	1,085	19	37	151	924	11,602	7,559	503	840	1,297	1,273	24	51	194	1,158
Philosophy and religious studies	7,958	,		664	372	352	20	50	154	123			582	756	462	443	19	50	187	140
Physical sciences and science technologies	15,972	11,924	620	963	1,481	1,459	22	85	242	657	17,143	12,514	670	1,200	1,612	1,578	34	71	309	767
Psychology	25,420	16,666	2,598	2,903	2,110	2,040	70	194	498	451	26,816	16,995	2,904	3,381	2,172	2,091	81	182	610	572
Public administration and social services	5,386	3,158	1,093	645	266	237	29	47	95	82	5,664	3,228	1,161	740	295	277	18	54	110	76
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Social sciences and history	90,628	63,667	6,624	8,620	6,391	6,178	213	513	1,579	3,234	90,148	61,910	6,683	9,256	6,272	6,045	227	475	1,837	3,715
Social sciences	69,657	46,457	5,764	6,983	5,711	5,537	174	389	1,256	3,097	69,688	45,353	5,852	7,481	5,625	5,434	191	367	1,437	3,573
History	20,971	17,210	860	1,637	680	641	39	124	323	137	20,460	16,557	831	1,775	647	611	36	108	400	142
Visual and performing arts	37,164	26,418	2,692	3,826	2,226	2,147	79	272	615	1,115	38,061	26,329	2,892	4,328	2,270	2,169	101	245	784	1,213
Other and not classified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Questions?

