

National Research Council ranks UC Davis Math and Applied Math among the nation's top graduate programs

The National Research Council (NRC), an arm of The National Academy of Sciences, released a major study on September 28th comparing numerous graduate research programs across the country. UC Davis had separate rankings in Mathematics and Applied Mathematics. The UC Davis Mathematics Graduate Program was evaluated among a group of 127 Mathematics Ph.D. programs while the Graduate Group in Applied Mathematics was compared to 33 Ph.D. programs in Applied Math. Several different methods were used to rank the programs, based on an exhaustive set of data collected in 2006 and 2007. A 296 page report accompanies the data and suggests how to interpret it. The report and data are available for free download at the National Academy of Sciences <http://www.nap.edu/rdp>.

There are three key ranking criteria among several that were used. The first, based on a large survey of faculty and administrators with numerous factors given various weights, is called the *S-rankings*. The second, *the R-rankings*, uses a statistical regression technique to reweigh the factors. Finally the *Research* rankings compares departments based on research productivity. For each of these criteria, two numbers are given, representing the 5th and the 95th percentile confidence level for a department's ranking. Thus if a department is given the ranking 5, 24 that means that there is a 5% chance that the correct ranking is 5 or better and a 95% probability that the correct ranking is 24 or better. This means that with 90% confidence, the correct ranking is somewhere between 5 and 24. A total of 127 Mathematics and 33 Applied Math programs were compared in this way. Here are the results:

MATH

Mathematics Top 20 Ranked by Survey, of 127

PRINCETON UNIVERSITY
HARVARD UNIVERSITY
NEW YORK UNIVERSITY
UNIVERSITY OF CALIFORNIA-BERKELEY
STANFORD UNIVERSITY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
YALE UNIVERSITY
PENN STATE UNIVERSITY
COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK
UNIVERSITY OF WISCONSIN-MADISON
CALIFORNIA INSTITUTE OF TECHNOLOGY
UNIVERSITY OF MICHIGAN-ANN ARBOR
BROWN UNIVERSITY
UNIVERSITY OF NOTRE DAME
UNIVERSITY OF CALIFORNIA-DAVIS
VANDERBILT UNIVERSITY
INDIANA UNIVERSITY AT BLOOMINGTON
UNIVERSITY OF CALIFORNIA-LOS ANGELES
UNIVERSITY OF TEXAS AT AUSTIN
UNIVERSITY OF CALIFORNIA-IRVINE

15

Mathematics Top 20 Ranked by Research, of 127

NEW YORK UNIVERSITY
PRINCETON UNIVERSITY
HARVARD UNIVERSITY
UNIVERSITY OF CALIFORNIA-BERKELEY
STANFORD UNIVERSITY
YALE UNIVERSITY
UNIVERSITY OF CALIFORNIA-IRVINE
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK
CALIFORNIA INSTITUTE OF TECHNOLOGY
UNIVERSITY OF WISCONSIN-MADISON
UNIVERSITY OF MICHIGAN-ANN ARBOR
UNIVERSITY OF CALIFORNIA-DAVIS
PENN STATE UNIVERSITY
UNIVERSITY OF TEXAS AT AUSTIN
UNIVERSITY OF DELAWARE
RUTGERS NEW BRUNSWICK
UNIVERSITY OF MASSACHUSETTS AMHERST
UNIVERSITY OF MARYLAND COLLEGE PARK
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

13

Mathematics Top 30 Ranked by Regression Methodology, of 127

UNIVERSITY OF CALIFORNIA-BERKELEY
PRINCETON UNIVERSITY
HARVARD UNIVERSITY
NEW YORK UNIVERSITY
STANFORD UNIVERSITY
YALE UNIVERSITY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
UNIVERSITY OF MICHIGAN-ANN ARBOR
UNIVERSITY OF WISCONSIN-MADISON
PENN STATE UNIVERSITY
COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK
UNIVERSITY OF CALIFORNIA-LOS ANGELES
UNIVERSITY OF CALIFORNIA-SAN DIEGO
UNIVERSITY OF TEXAS AT AUSTIN
CALIFORNIA INSTITUTE OF TECHNOLOGY
BROWN UNIVERSITY
RUTGERS THE STATE UNIVERSITY OF NEW JERSEY NEW BRUNSWICK CAMPUS
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN
CORNELL UNIVERSITY
UNIVERSITY OF MARYLAND COLLEGE PARK
UNIVERSITY OF CHICAGO
TEXAS A & M UNIVERSITY
INDIANA UNIVERSITY AT BLOOMINGTON
MICHIGAN STATE UNIVERSITY
PURDUE UNIVERSITY MAIN CAMPUS
STATE UNIVERSITY OF NEW YORK AT STONY BROOK
BRANDEIS UNIVERSITY
UNIVERSITY OF PENNSYLVANIA
DUKE UNIVERSITY
UNIVERSITY OF CALIFORNIA-DAVIS

APPLIED MATH

Applied Mathematics Top 20 Ranked by Survey, of 33

PRINCETON UNIVERSITY	
UNIVERSITY OF CALIFORNIA-LOS ANGELES	
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
BROWN UNIVERSITY	
CORNELL UNIVERSITY	
NORTHWESTERN UNIVERSITY	
UNIVERSITY OF WASHINGTON	
UNIVERSITY OF TEXAS AT AUSTIN	
UNIVERSITY OF CALIFORNIA-DAVIS	9
HARVARD UNIVERSITY	
NEW YORK UNIVERSITY	
UNIVERSITY OF COLORADO AT BOULDER	
COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK	
UNIVERSITY OF ARIZONA	
CALIFORNIA INSTITUTE OF TECHNOLOGY	
STATE UNIVERSITY OF NEW YORK AT STONY BROOK	
GEORGIA INSTITUTE OF TECHNOLOGY	
UNIVERSITY OF SOUTHERN CALIFORNIA	
RICE UNIVERSITY	
NEW JERSEY INSTITUTE OF TECHNOLOGY	

Applied Math Top 20 Ranked by Research, of 33

PRINCETON UNIVERSITY	
HARVARD UNIVERSITY	
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
UNIVERSITY OF CALIFORNIA-LOS ANGELES	
CORNELL UNIVERSITY	
NORTHWESTERN UNIVERSITY	
UNIVERSITY OF TEXAS AT AUSTIN	
COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK	
UNIVERSITY OF CALIFORNIA-DAVIS	9
UNIVERSITY OF WASHINGTON	
BROWN UNIVERSITY	
NEW YORK UNIVERSITY	
UNIVERSITY OF ARIZONA	
UNIVERSITY OF SOUTHERN CALIFORNIA	
UNIVERSITY OF COLORADO AT BOULDER	
CALIFORNIA INSTITUTE OF TECHNOLOGY	
STATE UNIVERSITY OF NEW YORK AT STONY BROOK	
GEORGIA INSTITUTE OF TECHNOLOGY	
RICE UNIVERSITY	
NEW JERSEY INSTITUTE OF TECHNOLOGY	

Applied Math Top 20 Ranked by Regression Methodology, of 33

PRINCETON UNIVERSITY
UNIVERSITY OF WASHINGTON
BROWN UNIVERSITY
CORNELL UNIVERSITY
UNIVERSITY OF CALIFORNIA-LOS ANGELES
UNIVERSITY OF ARIZONA
NEW YORK UNIVERSITY
CALIFORNIA INSTITUTE OF TECHNOLOGY
UNIVERSITY OF MARYLAND COLLEGE PARK
NORTHWESTERN UNIVERSITY
UNIVERSITY OF CALIFORNIA-DAVIS
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
UNIVERSITY OF TEXAS AT AUSTIN
STATE UNIVERSITY OF NEW YORK AT STONY BROOK
UNIVERSITY OF SOUTHERN CALIFORNIA
RICE UNIVERSITY
UNIVERSITY OF COLORADO AT BOULDER
COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK
HARVARD UNIVERSITY
UNIVERSITY OF IOWA

11