

## WHERE TO EARN A PHD FOR RESEARCH IN FORMAL METHODS

Formal Methods as a research area in Computer Science is small compared to many others. Quite few universities have professors that are studying Formal Methods. At least intuitively, attending a university where there are professors studying Formal Methods is preferable and advantageous. The following three tables contain information about what universities have professors that are active in Formal Methods. The information was gathered by browsing university websites and by doing searches using university search engines.

The following table lists the top 35 graduate programs<sup>1</sup> and their respective number of faculty researching Formal Methods.

Number of Faculty For Top Ranked Universities				
Name:	URL:	Faculty:	Ranking:	
Stanford University	<a href="http://www.stanford.edu">www.stanford.edu</a>	4	2	
Carnegie Mellon University	<a href="http://www.cmu.edu">www.cmu.edu</a>	4	3	
University of Texas, Austin	<a href="http://www.utexas.edu">www.utexas.edu</a>	4	7	
University of Pennsylvania	<a href="http://www.upenn.edu">www.upenn.edu</a>	3	24	
University of California, Irvine	<a href="http://www.uci.edu">www.uci.edu</a>	3	34	
Massachusetts Institute of Technology	<a href="http://www.mit.edu">www.mit.edu</a>	2	1	
University of North Carolina, Chapel Hill	<a href="http://www.unc.edu">www.unc.edu</a>	2	30	
State University of New York, Stony Brook	<a href="http://www.sunysb.edu">www.sunysb.edu</a>	2	31	
University of California, Berkeley	<a href="http://www.berkeley.edu">www.berkeley.edu</a>	1	4	
Cornell University	<a href="http://www.cornell.edu">www.cornell.edu</a>	1	5	
New York University	<a href="http://www.nyu.edu">www.nyu.edu</a>	1	18	
Rice University	<a href="http://www.rice.edu">www.rice.edu</a>	1	19	
University of Michigan, Ann Arbor	<a href="http://www.umich.edu">www.umich.edu</a>	1	20	
University of Arizona	<a href="http://www.arizona.edu">www.arizona.edu</a>	1	32	
University of Virginia	<a href="http://www.virginia.edu">www.virginia.edu</a>	1	35	
Princeton University	<a href="http://www.princeton.edu">www.princeton.edu</a>	0	6	
University of Illinois, Urbana-Champaign	<a href="http://www.uiuc.edu">www.uiuc.edu</a>	0	8	
University of Washington	<a href="http://www.washington.edu">www.washington.edu</a>	0	9	
Harvard University	<a href="http://www.harvard.edu">www.harvard.edu</a>	0	10	
University of Wisconsin, Madison	<a href="http://www.wisc.edu">www.wisc.edu</a>	0	11	
California Institute of Technology	<a href="http://www.caltech.edu">www.caltech.edu</a>	0	12	
Brown University	<a href="http://www.brown.edu">www.brown.edu</a>	0	13	
University of California, Los Angeles	<a href="http://www.ucla.edu">www.ucla.edu</a>	0	14	
Yale University	<a href="http://www.yale.edu">www.yale.edu</a>	0	15	
University of Maryland, College Park	<a href="http://www.umd.edu">www.umd.edu</a>	0	16	
University of Massachusetts, Amherst	<a href="http://www.umass.edu">www.umass.edu</a>	0	17	
University of Southern California	<a href="http://www.usc.edu">www.usc.edu</a>	0	21	
Columbia University	<a href="http://www.columbia.edu">www.columbia.edu</a>	0	22	
University of Chicago	<a href="http://www.uchicago.edu">www.uchicago.edu</a>	0	23	
University of California, San Diego	<a href="http://www.ucsd.edu">www.ucsd.edu</a>	0	25	
Purdue University, West Lafayette	<a href="http://www.purdue.edu">www.purdue.edu</a>	0	26	
Rutgers University	<a href="http://www.rutgers.edu">www.rutgers.edu</a>	0	27	

<sup>1</sup> All rankings are from a table in the 8<sup>th</sup> edition of the Gourman Report located on Pp. 24 and entitled, Computer Science: Leading Institutions – Rating of Graduate Programs. Bibliography Information: Gourman, Jack. 1997. The Gourman Report : A Rating of Graduate and Professional Programs in American and International Universities. New York: Random House.

Duke University	<a href="http://www.duke.edu">www.duke.edu</a>	0	28
University of Rochester	<a href="http://www.rochester.edu">www.rochester.edu</a>	0	29
Georgia Institute of Technology	<a href="http://www.gatech.edu">www.gatech.edu</a>	0	33

The following table lists seven Computer Science PhD granting Universities of California (i.e. UC's), their respective, and their respective number of faculty researching Formal Methods.

Number of Faculty For UC Schools			
Name:	URL:	Faculty:	Ranking:
University of California, Irvine	<a href="http://www.uci.edu">www.uci.edu</a>	3	21
University of California, Berkeley	<a href="http://www.berkeley.edu">www.berkeley.edu</a>	1	4
University of California, Santa Barbara	<a href="http://www.ucsb.edu">www.ucsb.edu</a>	1	NA*
University of California, Davis	<a href="http://www.ucdavis.edu">www.ucdavis.edu</a>	1	NA*
University of California, Los Angeles	<a href="http://www.ucla.edu">www.ucla.edu</a>	0	14
University of California, San Diego	<a href="http://www.ucsd.edu">www.ucsd.edu</a>	0	19
University of California, Santa Cruz	<a href="http://www.ucsc.edu">www.ucsc.edu</a>	0	NA*
University of California, Riverside	<a href="http://www.ucr.edu">www.ucr.edu</a>	0	NA*

\*NA indicates that these schools are not ranked within the top 35.

The following table is a list of names and web addresses (i.e. URL's), grouped by university, for all the professors researching Formal Methods at schools ranked within the top 35.

Faculty by University		
University Name:	Faculty Name:	URL:
Stanford University	John C. Mitchell	<a href="http://theory.stanford.edu/people/jcm/home.html">theory.stanford.edu/people/jcm/home.html</a>
	David L. Dill	<a href="http://sprout.stanford.edu/dill/">sprout.stanford.edu/dill/</a>
	Rob van Glabbeek	<a href="http://boole.stanford.edu/~rvg/">boole.stanford.edu/~rvg/</a>
	Zohar Manna	<a href="http://theory.stanford.edu/people/zm/home.html">theory.stanford.edu/people/zm/home.html</a>
	Jeannette M. Wing	<a href="http://www.cs.cmu.edu/~wing/">www.cs.cmu.edu/~wing/</a>
Carnegie Mellon University	David Garlan	<a href="http://www.cs.cmu.edu/~garlan/">www.cs.cmu.edu/~garlan/</a>
	Edmund M. Clarke	<a href="http://www.cs.cmu.edu/~emc/">www.cs.cmu.edu/~emc/</a>
	Reid Simmons	<a href="http://www.cs.cmu.edu/~reids/">www.cs.cmu.edu/~reids/</a>
University of Texas, Austin	Robert Stephen Boyer	<a href="http://www.cs.utexas.edu/users/boyer/">www.cs.utexas.edu/users/boyer/</a>
	E. Allen Emerson	<a href="http://www.cs.utexas.edu/users/emerson/">www.cs.utexas.edu/users/emerson/</a>
	Jayadev Misra	<a href="http://www.cs.utexas.edu/users/misra/">www.cs.utexas.edu/users/misra/</a>
	J Strother Moore	<a href="http://www.cs.utexas.edu/users/moore/">www.cs.utexas.edu/users/moore/</a>
University of Pennsylvania	Rajeev Alur	<a href="http://www.cis.upenn.edu/~alur/">www.cis.upenn.edu/~alur/</a>
	Carl A. Gunter	<a href="http://www.cis.upenn.edu/~gunter/">www.cis.upenn.edu/~gunter/</a>
	Insup Lee	<a href="http://www.cis.upenn.edu/~lee/">www.cis.upenn.edu/~lee/</a>
University of California, Irvine	Daniel D. Gajski	<a href="http://www.ics.uci.edu/~gajski/">www.ics.uci.edu/~gajski/</a>
	Debra J. Richardson	<a href="http://www.ics.uci.edu/~djr/">www.ics.uci.edu/~djr/</a>
	David S. Rosenblum	<a href="http://www.ics.uci.edu/~dsr/">www.ics.uci.edu/~dsr/</a>
Massachusetts Institute of Technology	Michael D. Ernst	<a href="http://sdg.lcs.mit.edu/%7Emernst/">sdg.lcs.mit.edu/%7Emernst/</a>
	Daniel Jackson	<a href="http://sdg.lcs.mit.edu/~dnj/">sdg.lcs.mit.edu/~dnj/</a>
University of North Carolina, Chapel Hill	James H. Anderson	<a href="http://www.cs.unc.edu/~anderson/">www.cs.unc.edu/~anderson/</a>
	Jan F. Prins	<a href="http://www.cs.unc.edu/~prins/">www.cs.unc.edu/~prins/</a>
State University of New York, Stony Brook	Rance Cleaveland	<a href="http://www.cs.sunysb.edu/~rance/">www.cs.sunysb.edu/~rance/</a>
	Scott A. Smolka	<a href="http://www.cs.sunysb.edu/~sas/">www.cs.sunysb.edu/~sas/</a>
University of California, Berkeley	Thomas A. Henzinger	<a href="http://www-cad.eecs.berkeley.edu/~tah/">www-cad.eecs.berkeley.edu/~tah/</a>

Cornell University  
New York University  
Rice University  
University of Michigan,  
Ann Arbor  
University of Arizona  
University of Virginia

Robert L. Constable  
Amir Pnueli  
Moshe Y. Vardi  
Farnam Jahanian  
  
Neelam Gupta  
John C. Knight

[www.cs.cornell.edu/Info/People/rc/index.html](http://www.cs.cornell.edu/Info/People/rc/index.html)  
[www.cs.nyu.edu/cs/faculty/pnueli/](http://www.cs.nyu.edu/cs/faculty/pnueli/)  
[www.cs.rice.edu/~vardi/](http://www.cs.rice.edu/~vardi/)  
[www.eecs.umich.edu/eecs/administration/html\\_files/farnam.html](http://www.eecs.umich.edu/eecs/administration/html_files/farnam.html)  
[www.cs.arizona.edu/people/ngupta/](http://www.cs.arizona.edu/people/ngupta/)  
[www.cs.virginia.edu/~jck/](http://www.cs.virginia.edu/~jck/)