

# PhD Programs in SAS-Nat Sci

## PhD Admissions

AY 2017-2019

Adm Rate  
**11.1%**

Yield  
**39.8%**

### Applicants

% Int'l 44.4% % US 55.6%  
# of Countries 97 # of States 49

### Test Scores

	3-year Avg		3-year Totals		
	Total	Women	URM	Int'l	
Applicants	2,139	6,417	2,781	474	2,852
Admits	237	711	290	41	268
Acceptances	93	278	100	7	139
Matriculants	94	283	100	7	142
Adm Rate	11.1%	10.4%	8.6%	9.4%	
Yield	39.8%	34.5%	17.1%	53.0%	

Top Countries Non-US		Top States	
China	1,509	Pennsylvania	524
India	312	New York	446
South Korea	198	California	374
Canada	89	New Jersey	262
Taiwan	87	Massachusetts	220

	Average	Median
GRE Verbal	158.5	159
GRE Quant	164.8	166
GRE Writing	4.1	4
TOEFL	104.2	104

## PhD Enrollment

Fall 2018

Headcount **501**  
Median Age **26.1**

Ed Fellowship Recipients 119  
Teaching or Res Asst/Fellows 387

# of Countries 36 # of States 33

% Women	% URM	% Int'l
36.5%	4.2%	42.3%

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	Total	Female	Male
Total	501	183	318
International	212	76	136
URM	21	7	14
Asian/PI	41	15	26
White/Other/Unk	227	85	142

Top Countries Non-US		Top States	
China	111	Pennsylvania	71
India	15	New York	32
South Korea	11	New Jersey	30
Taiwan	8	California	25
Brazil	6	Massachusetts	20

## PhD Recipients

### Traditional PhD Students

AY 2016-2018

Median Time to Degree **5.34**

## Completion Rates

### Traditional PhD Cohorts

Entering AY 2008-2010

Completion Rate **76.5%**

## Demographic Details of PhD Recipients

AY 2016-2018

	Total
Degree Recipients	216
Median Time to Degree	5.34
Less than 4 yrs	6.5%
4 or more & less than 6 yrs	71.3%
6 or more & less than 8 yrs	19.0%
8 or more yrs	3.2%

	Total
Total Headcount	324
Completion Rate	76.5%
Median Time to Degree	5.75
Not Completed	23.5%
Did not enroll after year 2	14.8%
Enrolled AY2018	0.3%

	Total
Have a spouse/partner	49%
Have children	8%
Identify as LGBTQ	5%
Low-income or working-class	25%

## Graduate Group Faculty

Fall 2018

# of Departments Represented  
**32**

	Total	Women	URM	Int'l
Standing Faculty	244	64	8	1
Non-standing Faculty	23	2	1	-

Faculty Headcount by Dept (Top 5)	
Physics and Astronomy	41
Biology	32
Chemistry	32
Psychology	31
Mathematics	29

## Academic Experience of PhD Recipients

AY 2016-2018

	Total
Prob/def pursue a PhD at Penn again	75%
One or more publications	84%
Avg Advisor support (1-4)	3.5
Avg Program climate (1-5)	4.0

## PhD Career Outcomes At Graduation

AY 2013-2017 PhD Recipients

% w/ modified information  
**91.2%**

Sector	Position
Post-Secondary Education	60.7% Other 35.2%
Business/Industry	30.7% Postdoc 29.6%
Government	5.3% Non-Tenure Track 26.6%
Non-Profit Organization	2.2% Tenure Track 3.9%
Other	0.6% Staff 2.2%

## PhD Career Outcomes 5 yrs after Graduation

AY 2008-2012 PhD Recipients

% w/ modified information  
**60.5%**

Sector	Position
Post-Secondary Education	49.1% Other 46.5%
Business/Industry	41.7% Tenure Track 19.6%
Government	3.9% Non-Tenure Track 18.7%
Non-Profit Organization	3.0% Administrator 4.8%
Other	1.3% Postdoc 3.9%

# Definitions

General	<ul style="list-style-type: none"> <li>• <i>Data source for race/ethnicity information on students, employees, and post-doctoral affiliates</i>: Penn People. Penn People allows members of the community to enter/update information for Hispanic ethnicity and race; as a result, race/ethnicity data are subject to change over time.</li> <li>• Academic Year (AY) is a 1-year unit encompassing Summer, Fall and Spring semesters, e.g.: AY 2014 = Summer 2013 (sessions I, II, and 12-week), Fall 2013, and Spring 2014 semesters.</li> <li>• <b>URM</b> (Under-Represented Minority) includes U.S. Citizens and Permanent Residents who identify with one or more of the following race/ethnicities: Hispanic/Latino/a, African American/Black, Native American/Alaskan Native. All others are classified as Non-URM.</li> </ul>
Admissions	<ul style="list-style-type: none"> <li>• <i>Data source for Graduate applicants, admits, and matriculants</i>: College Net</li> <li>• <b>Applicants</b> are counts of applicants to PhD programs, for any term (Summer, Fall, Spring) within a given AY.</li> <li>• <b>Admitted</b> are counts of applicants admitted for any term within a given AY, regardless of planned matriculation semester.</li> <li>• <b>Acceptances</b> are those admitted for a given AY who indicate they will enroll in that AY, including those who defer-out to a subsequent AY. Excludes admitted applicants who defer-in from prior years.</li> <li>• <b>Matriculants</b> are those admitted for a given AY who indicate they will enroll in that AY, plus those who defer-in from a prior year. Excludes admitted applicants who defer-out to subsequent years.</li> <li>• <b>TOEFL scores</b> reported by PhD Applicants are converted to Internet-based (iBT) scale (0-120).</li> <li>• <b>GRE scores</b> reported by PhD applicants consist of Verbal Reasoning, Quantitative Reasoning (both scales of 130-170, 1pt increments. Prior to Aug-2011, scale of 200-800, 10pt increments -- these are converted to the new scale), and Analytical Writing (scale of 0-6, half-pt increments).</li> </ul>
Enrollment	<ul style="list-style-type: none"> <li>• <i>Data source for Enrollment</i>: Fall enrollment Census, 5th week of Fall classes</li> <li>• A <b>PhD student</b> is a student enrolled in a PhD program, or pursuing a PhD as part of a dual degree.</li> <li>• <i>Data source for Fellowship and Teaching/Research Assistantships</i>: snapshot from Human Resource Information System/HRIS (stored the Data Warehouse).</li> <li>• <b>Education Fellowship Recipients</b> are PhD students with at least one appointment title of 'Education Fellowship Recipients'.</li> <li>• <b>Teaching or Research Assistant/Fellows</b> are PhD Students with at least one appointment title of: Research Assistant (A or B), Research Fellow, Teaching Assistant, and Teaching Fellow.</li> <li>• <i>Data source for State of Origin for Enrolled Students</i>: College Net</li> </ul>
Completion Rates	<ul style="list-style-type: none"> <li>• <b>Traditional PhD Cohort</b> is a group of PhD students tracked by entry year. Cohorts include only those students who begin their doctoral study at Penn as 1st-time PhD students; excludes Dual Degree and those who do not begin as 1st-time PhD Students.</li> <li>• <b>Completion Rate</b> for a Traditional PhD Cohort is calculated as the percentage of the cohort receiving PhDs within a designated time period.</li> <li>• Time to degree is suppressed for groups less than 3.</li> </ul>
Degree Recipients	<ul style="list-style-type: none"> <li>• <b>Degree Recipients</b> are headcounts of those who entered as Traditional PhD students, and who earned only PhD Degrees, i.e.: excludes those who earned PhDs as part of Dual Degree programs.</li> <li>• <b>Time-To-Degree</b> for PhD recipients is calculated as the time elapsed between a student's Entry Term to a PhD program and the Exit Term from a PhD program, and is not adjusted for leaves of absence. i.e.: Time to Degree = (Exit Term date - Entry Term date) ÷ 365.25.</li> <li>• Time to degree and completion rates are suppressed for groups less than 3.</li> </ul>
Career Outcomes	<ul style="list-style-type: none"> <li>• <i>Data source</i>: Career Tracker</li> <li>• <b>Sector</b> categories: Business/Industry; Government; Missing-no data; Non-Profit Organization; Other; Post-Secondary Education; Secondary / Elementary / Pre-K; Unemployed.</li> <li>• <b>Position</b> categories: Administrator; Missing-no data; Non-Tenure Track; Other; Postdoc; Staff; Student/Resident; Teacher; Tenure Track; Tenured; Unemployed.</li> </ul>
Graduate Group Faculty	<ul style="list-style-type: none"> <li>• <i>Data source for Graduate Group Faculty</i>: snapshot from Human Resource Information System/HRIS stored the Data Warehouse</li> <li>• Graduate programs leading to the Ph.D. and their related research master's degrees are carried out by associations of faculty members called "graduate groups." Many are based in single departments, in which all members of the department's Standing Faculty are members of the grad group, but the group may also include faculty from other departments/schools. There are also grad groups not based in a single department, and composed of faculty from several departments or schools, e.g., Immunology. Faculty members are counted within grad groups according to their departmental appointment, and/or their active grad group membership as indicated in FIS (Faculty Information System).</li> <li>• <b>Standing faculty</b> are faculty members with a tenure-track or clinician educator appointment.</li> <li>• <b>Non-Standing Faculty</b> are Associated Faculty, and also may include others such as Emeriti.</li> </ul>
PhD Exit Survey	<ul style="list-style-type: none"> <li>• <b>Average Advisor Support</b> is the average advisor rating across the following 12 items from the PhD Exit Survey: selection of a dissertation topic; dissertation research; advice writing &amp; revising the dissertation; selection of academic career options; selection of nonacademic career options; search for employment or training. Item scores range from 1-4, with 4 being most positive.</li> <li>• <b>Average Program Climate</b> is the average program climate rating across the following 4 items from the PhD Exit Survey: Students in my program are treated with respect by faculty; the intellectual climate of my program is positive; the social climate of my program is positive; students in my program are collegial. Item scores range from 1-5, with 5 being most positive.</li> <li>• Responses are suppressed for groups less than 5.</li> </ul>