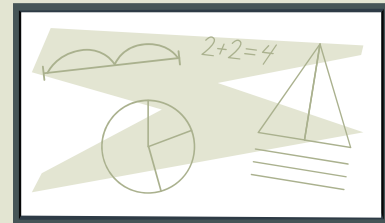




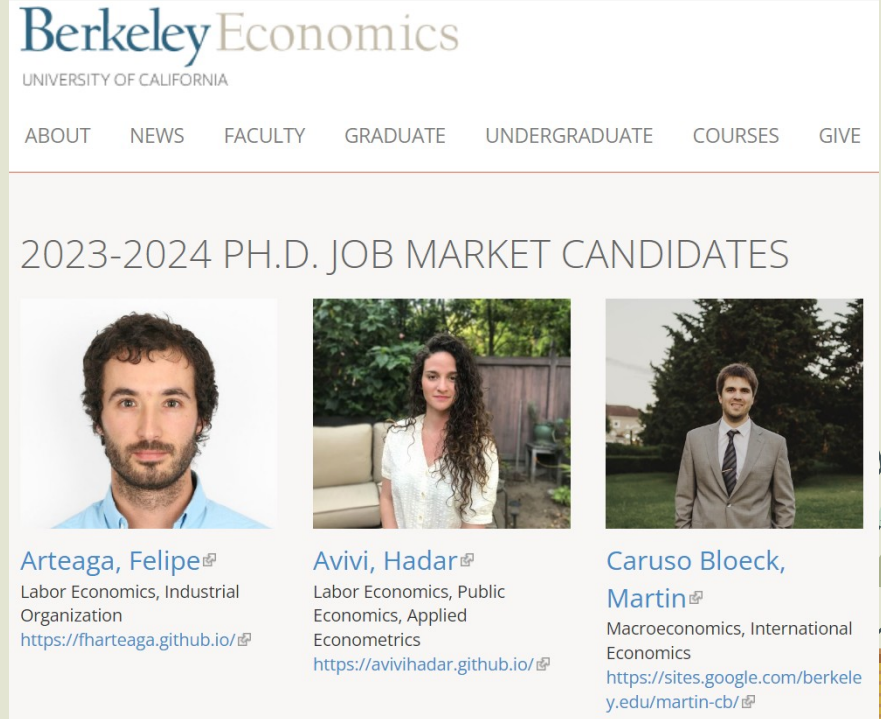
PhD Economics Predictability of Placements

By: Sam Chan and Amy Dao



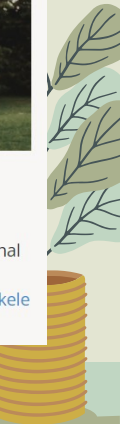
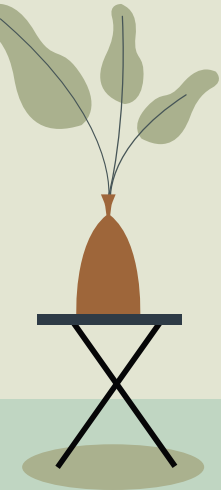
Introduction

- **Research Question:**
 - How does gender composition (and other variables) affect the decision to remain in academia after PhD completion?
- Doctorate level are more well-defined compared to undergraduate level
 - PhD programs cohort
 - Public Data
 - Administrative
 - Department
 - Personal Websites



The screenshot shows the Berkeley Economics website header with navigation links: ABOUT, NEWS, FACULTY, GRADUATE, UNDERGRADUATE, COURSES, GIVE. Below the header is a section titled "2023-2024 PH.D. JOB MARKET CANDIDATES" featuring three candidate profiles:

Name	Department	Personal Website
Arteaga, Felipe	Labor Economics, Industrial Organization	https://fharteaga.github.io/
Avivi, Hadar	Labor Economics, Public Economics, Applied Econometrics	https://avivihadar.github.io/
Caruso Bloeck, Martin	Macroeconomics, International Economics	https://sites.google.com/berkeley.edu/martin-cb/



Data

First, we collected data on Ph.D. students of cohorts from 2018 to 2024.

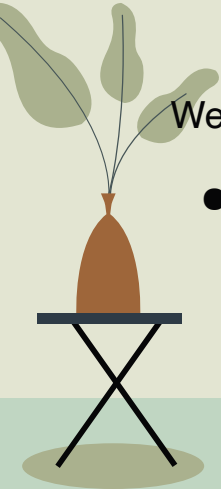
- Top 5 Economic Ph.D. Programs in U.S.
 - Harvard
 - Stanford
 - Berkeley
 - UChicago
 - MIT

Graduate Student Placement 2023

Name	Fields of Study	Placement
Angie Acquatella	Public Finance, Contract Theory	University of Toulouse
Arielle Bernhardt	Development Economics, Political Economy	New York University
John Conlon	Behavioral Economics, Experimental Economics, Labor Economics	Carnegie Mellon
Elizabeth Engle	Labor Economics, Public Economics	Macalester College
Matthew Ferranti	International Finance, Macroeconomics, Applied Econometrics	U.S. Intelligence Community

We then recorded career placements of these cohorts the following year

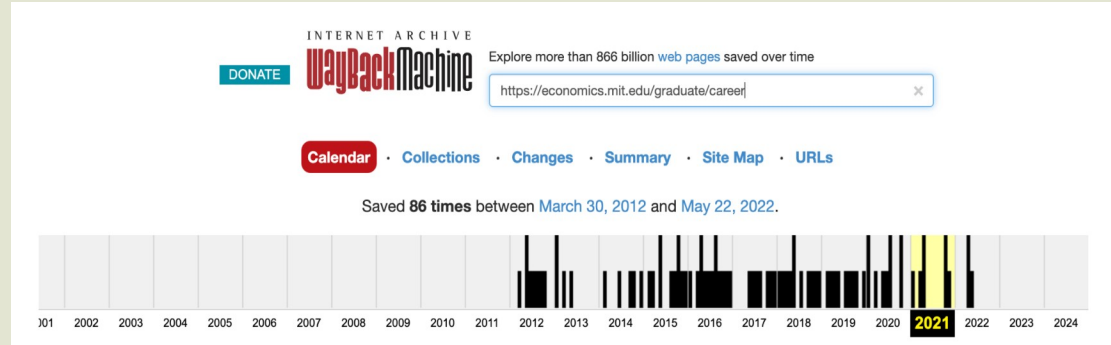
- i.e. a Harvard Ph.D. student is on the job market in 2018, and graduates in 2019 with a job at Yale.



Data scraping

Older data

- WayBack Machine
 - Restrictions
- Econ Job Market Rumors
 - Rework of department websites



econjobrumors.com/topic/chicago-jmcs-2019-20

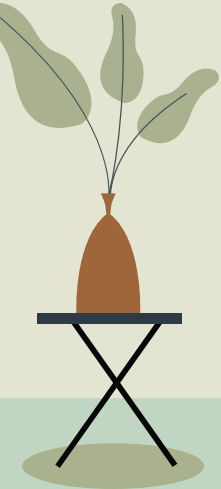
Chicago JMCs 2019-20

Economist
6b92

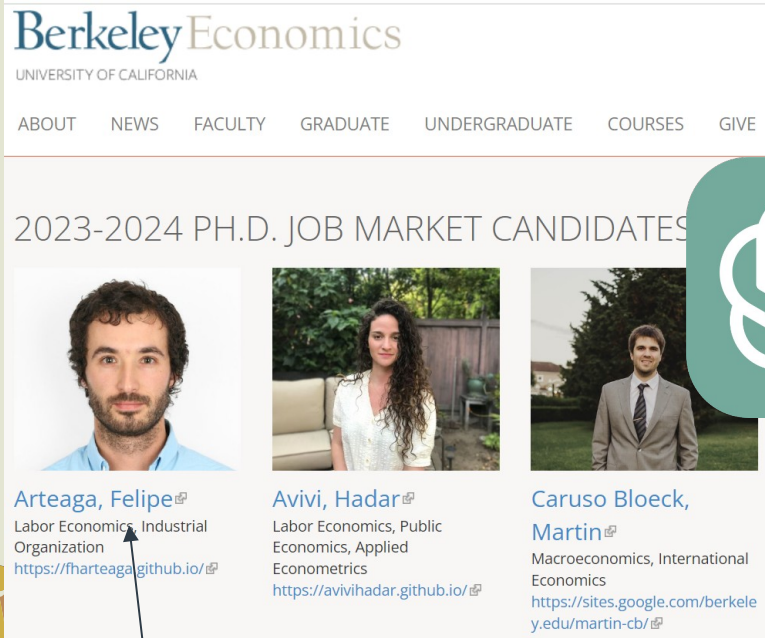
Discuss

<https://economics.uchicago.edu/content/job-market-candidates-2019-20>

4 YEARS AGO # QUOTE 1 GOOD 0 NO GOOD




Formatting data





Berkeley Economics
UNIVERSITY OF CALIFORNIA


ABOUT NEWS FACULTY GRADUATE UNDERGRADUATE COURSES GIVE


2023-2024 PH.D. JOB MARKET CANDIDATES




Arteaga, Felipe 
Labor Economics, Industrial Organization
<https://fhariteaga.github.io/>



Avivi, Hadar 
Labor Economics, Public Economics, Applied Econometrics
<https://avivihadar.github.io/>



Caruso Bloeck, Martin 
Macroeconomics, International Economics
<https://sites.google.com/berkeley.edu/martin-cb/>



School	Year (format: car Name	Primary Research Focus	Secondary	Gender	CV
Berkeley	2023-2024	Arteaga, Felipe	Labor Economics, Industrial	Male	https://fhariteaga
Berkeley	2023-2024	Avivi, Hadar	Labor Economics, Public E	Female	https://avivihada
Berkeley	2023-2024	Caruso Bloeck, Mar	Macroeconomics, Internati	Male	https://drive.goo
Berkeley	2023-2024	Cerrato, Andrea	Macroeconomics, Economi	Male	https://www.drop
Berkeley	2023-2024	Chu, Bryan	Health, Industrial Organiza	Male	https://bpcchu.gi
Berkeley	2023-2024	Dano, Kevin	Econometrics, Economic T	Male	https://kevindanc
Berkeley	2023-2024	Duhon, Madeline	Development Economics, I	Female	https://drive.goo
Berkeley	2023-2024	Gebbia, Nick	Public Economics, Labor E	Male	https://papers.ni
Berkeley	2023-2024	Gupta, Abhi	Macroeconomics	Male	https://abhig94.g
Berkeley	2023-2024	Jones, Collin	Macroeconomics, Finance	Male	https://drive.goo
Berkeley	2023-2024	Kancheria, Sreeraa	Public and Labor Econom	Male	https://sreekancl
Berkeley	2023-2024	Kim, Oliver	Development, Economic Hi	Male	https://oliverwkin
Berkeley	2023-2024	Leucht, Lukas	Political Economy, Econom	Male	https://www.luka
Berkeley	2023-2024	Lobel, Felipe	Public Economics, Labor E	Male	https://felipelobe
Berkeley	2023-2024	Mehmood, Muhamr	Development Economics a	Male	https://www.zian
Berkeley	2023-2024	Ortiz, Miguel	Development economics, p	Male	https://miguelorti
Berkeley	2023-2024	Pourbabaee, Farzac	Economic Theory, Microec	Male	https://farzad-po
Berkeley	2023-2024	Sanchez, Cesia	Labor economics, demogre	Female	https://www.drop
Berkeley	2023-2024	Sbai Sassi, Yassine	Econometrics, Microecon	Male	https://yassinest
Berkeley	2023-2024	Smith, Landin	Development, Labor Econ	Male	https://drive.goo
Berkeley	2023-2024	Swanson, Nicholas	Development Economics, F	Male	https://nicholasq
Berkeley	2023-2024	Tai, Andrew	Microeconomic theory	Male	https://taiandrew

In Excel:

Data > Split text to columns > By “,” or “;”

Collected data 500+ individuals

As a job market candidate...

Data

1	Name	School	Year (format: cat CV)	Undergrad	Gender	Placement	Academic Place	Non-academic P	Primary Research Focus	Secondary	Thesis Topic	Thesis Link	Length (in pages)	Advisors	Advisor Gender	Job Market Paper
79	Yiwei Chen	Stanford	2018-2019	https://stanford.edu	Domestic	Male	Quantco	Quantco	Health Economics, Public E		Essays in health	https://stacks.ste	0.25	Liran Einav, Jor	Female	User-Generated Physician R
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84	Robin Gong	Stanford	2018-2019	https://github.co	Domestic	Male	Hong Kong Univ	Hong Kong Univ	Labor Economics, Internati		Essays in trade,	https://stacks.ste	0.5	Nicholas Bloom,	Male	The Local Technology Spillov
85	Audrey Guo	Stanford	2018-2019	https://drive.goo	Domestic	Female	Santa Clara Univ	Santa Clara Univ	Public Economics, Labor E		Essays in social	https://stacks.ste	0.75	Mark Duggan, N	Male	The Effects of Unemployment
86	Charles Hodgson	Stanford	2018-2019	https://economic	Foreign	Male	Yale University	Yale University	Industrial Organization, Apj		Essays on indust	https://stacks.ste	0.5	Liran Einav, Mat	Male	Information Externalities, Fre
87	Benjamin Klopac	Stanford	2018-2019	https://drive.goo	Domestic	Male	Texas A&M Univ	Texas A&M Univ	Industrial Organization, Ur		Essays on indu	https://stacks.ste	0.75	Liran Einav, Mat	Female	One Size Fits All? Costs and
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91	Shunya Noda	Stanford	2018-2019	https://drive.goo	Foreign	Male	University of Brit	University of Brit	Market Design, Microecon		Essays on mark	https://stacks.ste	2	Fuhito Kojima, It	Male	Large Matchings in Large Ma
92	Alessandra Peter	Stanford	2018-2019		Female	New York Univer	New York Univer	Macroeconomics, Finance,		Essays on macr	https://stacks.ste	2	Monika Piazzesi	Female	Owning Up: Closely Held Fir	
93	Fanqi Shi	Stanford	2018-2019		Male	Peking Universit	Peking Universit	Microeconomic Theory, Ma		Essays in mark	https://stacks.ste	1	Fuhito Kojima, N	Male	Screening with Network Exte	
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95	Michael Barnett	UChicago	2018-2019	https://search.as	Domestic	Male	Assistant Profes	Assistant Profes	Macro-Asset Pricing	Climate Ch	A Run on Oil: Cl	https://knowledg	0.75	Lars P Hansen,	Male	A Run on Oil: Climate Policy,
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97	Nicolas Castro Cien	UChicago	2018-2019	https://economic	Foreign	Male	Assistant Profes	Assistant Profes	Macroeconomics, Monetar	Labor Ecor	Essays in Macro	https://knowledg	0.25	Harald Uhlig	Male	The Importance of Productio
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99	Chiara Fratto	UChicago	2018-2019		Female			Applied Macroeconomics	Urban and	Essays on Mobil	https://knowledg	0.5	Erik Hurst	Male	The Reallocation Effects of M	
100	Lloyd Han	UChicago	2018-2019		Male			Macroeconomics, Asset Pr	Robustness	Dynamics of Ma	https://knowledg	0.25	Lars P Hansen,	Male	Uncertainty and Disagreeme	
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102	Paymon Khorrami	UChicago	2018-2019	https://papers.pd	Domestic	Male	Imperial College	Imperial College	Financial Economics, Mont	Macroecon	The Risk of Risk	https://knowledg	0.5	Lars P Hansen,	Male	The Risk of Risk-Sharing: Di
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105	Kristzina Orban	UChicago	2018-2019	https://kristzina.c	Foreign	Female	National Bureau	National Bureau	Industrial Organization, Co	Public Ecor	The Inception of	https://knowledg	0.5	Michael Greenst	Male	The Inception of Capitalism t
106	Ziyi Qiu	UChicago	2018-2019		Female			Industrial Organization	Internation							Merger Analysis with Endoge
107	Sarojini Rao	UChicago	2018-2019	https://bpb-us-w	Domestic	Female	Old Dominion Ur	Old Dominion Ur	Health, Development	Labor, Appl	Essays in Econo	https://knowledg	1.25	Sarojini Rao	Female	Road Access and the Utilizat
108	Alparslan Tuncay	UChicago	2018-2019	https://www.aub	Foreign	Male	Department of E	Department of E	Applied Macroeconomics, I	Applied Mic	Assortative Mat	https://knowledg	0.25	Muhammed Alp	Male	Assortative Mating and Ineq
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- School
- Year
- Name
- Research Focuses
- Gender
- CV
- Job Market Paper
- Thesis Topic
- Thesis Analyzation
- Advisor
- Advisor Gender



Activate Windows
Go to Settings to activate Windows.

Collected data 500+ individuals

Then as a career professional



Data

1	Name	School	Year (format: cat CV)	Undergrad	Gender	Placement	Academic Placement	Non-academic Placement	Primary Research Focus	Secondary	Thesis Topic	Thesis Link	Length (in pages)	Advisors	Advisor Gender	Job Market Paper
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- School
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- Thesis Topic
- Year
- CV
- Thesis Analyzation
- Name
- 1st Placement
- Advisor
- Research Focuses
- Job Market Paper
- Advisor Gender

Activate Windows
Go to Settings to activate Windows.

Summary Statistics



```
. tabulate placements_d
```

placements_d	Freq.	Percent	Cum.
academic	131	56.22	56.22
nonacademic	102	43.78	100.00
Total	233	100.00	

Academic vs. non-academic jobs

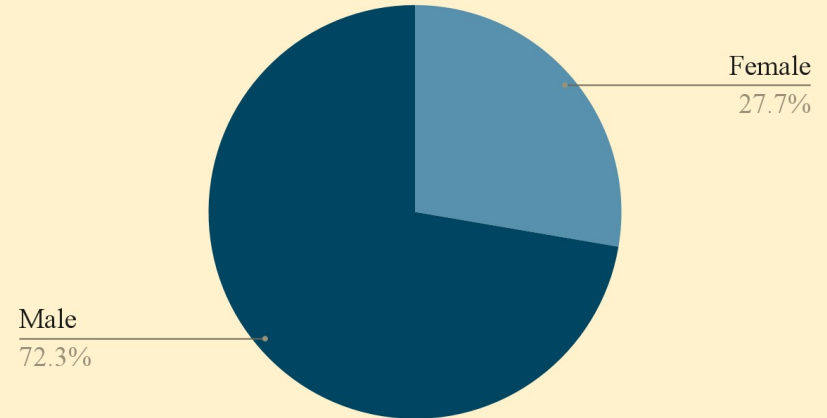
Overall male to female

```
//percentage of females in total  
tabulate gender
```

Gender	Freq.	Percent	Cum.
Female	121	27.69	27.69
Male	316	72.31	100.00
Total	437	100.00	

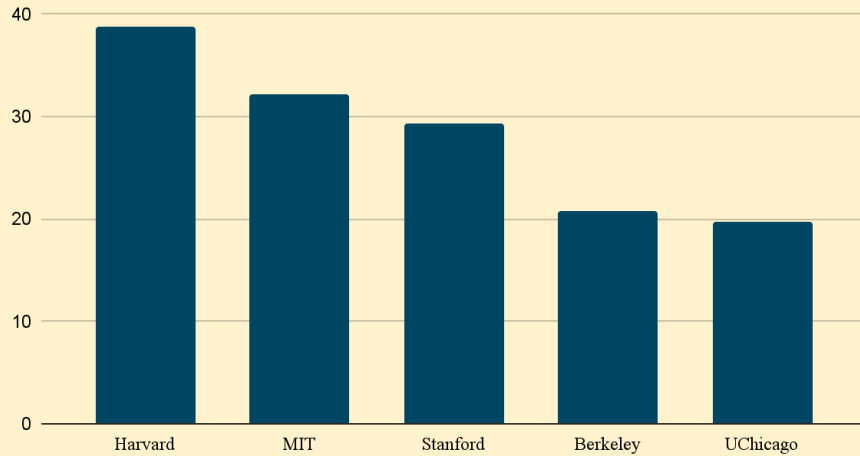
female

Gender composition of Ph.D. cohorts



Male to female ratio by school

Rate of female participation in Ph.D. programs



```
tabulate gender if school == "Harvard"
```

Gender	Freq.	Percent
Female	33	38.82
Male	52	61.18
Total	85	100.00

```
tabulate gender if school == "MIT"
```

Gender	Freq.	Percent
Female	18	32.14
Male	38	67.86
Total	56	100.00

```
tabulate gender if school == "Stanford"
```

Gender	Freq.	Percent
Female	34	29.31
Male	82	70.69
Total	116	100.00

```
tabulate gender if school == "Berkeley"
```

Gender	Freq.	Percent
Female	11	20.75
Male	42	79.25
Total	53	100.00

```
tabulate gender if school == "UChicago"
```

Gender	Freq.	Percent
Female	25	19.69
Male	102	80.31
Total	127	100.00

Other variables

```
. tabulate undergrad
```

Undergrad	Freq.	Percent	Cum.
Domestic	90	49.72	49.72
Foreign	91	50.28	100.00
Total	181	100.00	

Undergraduate
education

50:50 split



```
. tabulate AdvisorGender
```

Advisor Gender (is one advisor female if multiple)	Freq.	Percent	Cum.
Female	23	25.56	25.56
Male	67	74.44	100.00
Total	90	100.00	

Gender of advisor

25% female, 75% male





Regression Analysis



Methodology

- Class of 2018-2019 of 5 Universities
 - Chose because they did not have effects due to COVID that would change the results
- Multiple Linear Regression Model
- Dependent Variable:
 - Placement (academic or nonacademic) → Academic == 1
- Independent Variables:
 - Gender → Male == 1
 - School
 - Length of Acknowledgement (page length)
 - Advisor + Gender of Advisor → Male == 1
 - Undergraduate Education (domestic or foreign) → Domestic == 1

```
. //regression
```

```
. regress placements_d school gender undergrad ThesisLength AdvisorGender
```

Source	SS	df	MS	Number of obs	=	68
Model	.306401699	5	.06128034	F(5, 62)	=	0.31
Residual	12.4435983	62	.200703198	Prob > F	=	0.9079
Total	12.75	67	.190298507	R-squared	=	0.0240
				Adj R-squared	=	-0.0547
				Root MSE	=	.448

placements_d	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
school	-.0322964	.0378802	-0.85	0.397	-.1080179	.0434252
gender	-.0695613	.1297005	-0.54	0.594	-.3288289	.1897063
undergrad	-.0120026	.1140334	-0.11	0.917	-.2399522	.215947
ThesisLength	-.0008429	.1156904	-0.01	0.994	-.2321047	.2304188
AdvisorGender	-.1049283	.140968	-0.74	0.459	-.3867194	.1768628
_cons	1.667618	.3996761	4.17	0.000	.8686768	2.466559

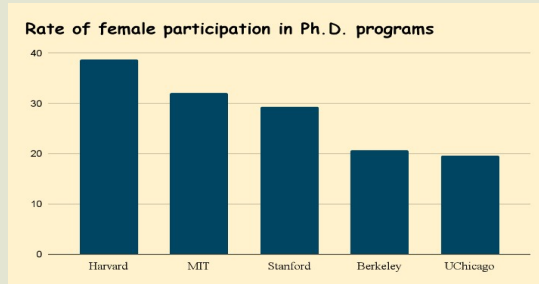
- Statistically insignificant? → Need more data?

Harvard and UChicago

```
. regress placements_d male_dummy undergrad ThesisLength AdvisorGender
```

Source	SS	df	MS	Number of obs	=	26
Model	.895804381	4	.223951095	F(4, 21)	=	1.11
Residual	4.21958023	21	.200932392	Prob > F	=	0.3760
Total	5.11538462	25	.204615385	R-squared	=	0.1751
				Adj R-squared	=	0.0180
				Root MSE	=	.44825

placements_d	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
male_dummy	-.390053	.2203773	-1.77	0.091	-.8483526	.0682466
undergrad	.0195267	.2000131	0.10	0.923	-.3964234	.4354768
ThesisLength	.1875682	.1781566	1.05	0.304	-.1829287	.558065
AdvisorGender	-.1068254	.195744	-0.55	0.591	-.5138973	.3002465
_cons	1.550536	.4881721	3.18	0.005	.5353261	2.565745



- T-statistic of -1.77 → model for relationship between high and low female participation?

Statistically Insignificant Variables

- Possible Reasons
 - Weak relationship
 - Small sample size
 - More diversity
 - Record
 - Multicollinearity

```

. //regression
. regress placements_d school gender undergrad

```

Source	SS	df	MS	Number of obs	=	172
Model	.142463537	3	.047487846	F(3, 168)	=	0.20
Residual	39.7819551	168	.236797352	Prob > F	=	0.8959
Total	39.9244186	171	.233476132	R-squared	=	0.0036
				Adj R-squared	=	-0.0142
				Root MSE	=	.48662

placements_d	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
school	.0171049	.0269706	0.63	0.527	-.03614	.0703498
gender	-.036065	.0861928	-0.42	0.676	-.2062255	.1340955
undergrad	.0214753	.0748823	0.29	0.775	-.1263563	.1693068
_cons	1.342896	.1903678	7.05	0.000	.967075	1.718718

THAN
K
YOU!

