Human Capital Investments and Expectations about Career and Family

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Current Population Characteristics I

- Earnings, employment, and marriage data for the US population using the 2009
- Not suited for causal inference; needs not reflect the student's beliefs
- Data from older cohort; includes not only high-ability participants
- But data is suited to document that career and family outcomes differ by educational choices in observational data

Current Population Characteristics II

Table 2:	Descriptive	Statistics of	2009 ACS Data
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	A	ge 23	Age 30		Age 45		
	Male	Female	Male	Female	Male	Female	
E (610,000)							
Earnings (in \$10,000s)							
Science/Business	3.33	3.22	6.74	5.48+++	11.61	7.46+++	
	(2.15)	(2.19)	(4.81)	(3.15)	(9.79)	(6.49)	
Humanities	2.51	2.57	5.40	4.47+++	9.07	5.93+++	
	(1.33)	(1.88)	(4.20)	(2.71)	(8.48)	(5.67)	
No Degree	2.54	2.15+++	4.21	3.08+++	5.70	3.88+++	
_	(1.52)	(1.41)	(2.50)	(1.59)	(4.13)	(2.57)	
p-value ^a	0	0	0	0	0	0	
Spanish Faminas (in \$10	00000						
Spousal Earnings (in \$10	3.41	4.75+++	5.26	8.25+++	7.44	12.68+++	
Science/Business							
TT	(2.09)	(3.11)	(3.44)	(5.79)	(6.69)	(10.15)	
Humanities	2.27	3.49+++	4.30	6.66+++	5.71	9.85+++	
N. D.	(1.33)	(1.93)	(2.61)	(5.64)	(4.72)	(9.42)	
No Degree	2.21	3.50+++	3.24	4.82+++	3.76	6.36+++	
1 1	(1.13)	(1.93)	(1.86)	(2.92)	(2.59)	(4.81)	
p-value	0	0.003	0	0	0	Ü	
Full-time Employed (%)							
Science/Business	38.5	42.4+++	80.86	64.40+++	82.68	58.42+++	
Humanities	30.9	36.2+++	72.96	57.92+++	75.86	52.07+++	
No Degree	40.1	34.4+++	66.53	46.51+++	67.88	52.44+++	
p-value	0.1	0	0	0	0	0	
p-varue	Ü	Ü	Ü	· ·	v	· ·	
Married (%)							
Science/Business	8.2	15.9+++	61.72	67.49+++	80.79	76.14+++	
Humanities	11.5	15.3+++	55.7	64.94+++	76.58	74.51+	
No Degree	15.2	26.4+++	54.86	59.29+++	69.3	69.65	
p-value	0	0	0	0	0	0	
Comings and enguest coming	b :	- C10 000-					

Earnings and spousal earnings shown in \$10,000s.

Mean (standard deviation) shown for the continuous outcomes.

+++, ++, + gender differences statistically significant at the 1, 5, and 10% levels, respectively. Symbols denoted on female column.

^a p-value of a F-test of the joint equality of means across majors. p-value of zero implies p-vlaue < 0.001.

Earnings Beliefs: Earnings Levels

Table 3: Self Earnings

	Age 23		Age 30		Age 45	
	Male	Female	Male	Female	Male	Female
Panel A: Levels (in 10,000s of do	llars)					
Science/Business	5.93	5.39	13.74	10.86++	19.00	13.81+++
	(7.32)	(4.66)	(16.61)	(9.31)	(22.38)	(14.12)
Humanities	4.71	3.94	6.87	6.86	11.03	9.60
	(7.38)	(3.51)	(5.51)	(7.4)	(13.53)	(11.75)
No Degree	3.50	2.45++	5.07	3.27++	8.97	5.86+++
<u> </u>	(7.54)	(1.16)	(11.0)	(4.56)	(15.95)	(10.22)
Overall	5.60	4.68+	12.95	9.21+++	18.44	12.33+++
	(7.36)	(3.81)	(16.35)	(8.45)	(22.52)	(13.90)
Panel B: Individual Log Difference	es					
Sci/Business versus. Humanities	.267***	.304***	.523***	.425***++	.446***	.347***+
	(.019)	(.017)	(.048)	(.025)	(.051)	(.026)
Graduate versus. No Degree	.594***	.642***	1.022***	1.038***	.829***	.833***
_	(.033)	(.026)	(.055)	(.037)	(.054)	(.038)

Panel A shows the mean and standard deviations of expected earnings (in \$10,000s). +++, ++, + denote gender differences are statistically different at the 1, 5, and 10% levels, respectively.

Panel B shows the avg. log differences and standard deviations in parentheses. ***, **, * denote the means are statistically different from zero at the 1, 5, and 10% levels, respectively. +++, ++, + (shown on the female column) denote gender differences are statistically different at the 1, 5, and 10% levels, respectively.

Earnings Growth

Table 4: Earnings growth beliefs

Table 4: Earnings growth beliefs							
	Age 23-30		Age	30-45			
	Male	Female	Male	Female			
Panel A: Levels (in %)							
Science/Business	.67	.63	.25	.19			
	(.72)	(.65)	(.47)	(.54)			
Humanities	.41	.51÷	`.32	`.27			
	(.56)	(.53)	(.45)	(.52)			
No Degree	.23	.21	.47	.43			
	(.78)	(.55)	(.74)	(.58)			
Overall	.66	.6	.29	.23			
	(.73)	(.58)	(.48)	(.52)			
Panel B: Individual differences							
Sci/Business versus. Humanities	.26***	.12***+++	08*	08***			
Del Buomeso versuoi Tramamies	(.05)	(.03)	(.04)	(.03)			
Graduate versus. No Degree	.42***	.39***	19***	2***			
Gradatic versus 110 Degree	(.06)	(.03)	(.06)	(.03)			

Panel A shows the mean and standard dev of beliefs about earnings growth (in %).
+++, ++ denote gender differences are statistically different at the 1, 5, and 10% levels, respectively.

Panel B shows average log differences and standard deviations in parentheses.

***, ** denote means are statistically different from zero at the 1, 5, and 10% levels, respectively. +++, ++, + (shown on the female column) denote gender differences are statistically different at the 1, 5, and 10% levels, respectively.

Earnings Uncertainty

Table 5: Age 30 Earnings Uncertainty - Std deviations from fitting a Beta Distribution

	Male	Female
Panel A: Levels (in \$10,000)		
Science/Business	9.17	9.49
	(1.44)	(2.48)
Humanities	10.34	10.01
	(27.44)	(2.32)
No Degree	14.73	15.27
0 "	(7.34)	(7.53)
Overall	9.71	9.68
	(2.02)	(2.01)

Panel B: Individual differences

Sci/Business versus. Humanities	11***	057***+++
	(.014)	(.012)
Graduate versus. No Degree	305***	335***
	(.052)	(.043)

Panel A shows the mean and std dev of age 30 earnings uncertainty beliefs (in \$10,000). Uncertainty is the standard deviation of the

behiefs (in \$10,000). Uncertainty is the standard overation of the individual-specific (beta-) fitted earnings distribution.
++++, ++ denote gender differences statistically different at the 1, 5, and 10% levels, respectively.
Panel B shows average log differences and standard deviations in parentheses. **** *** ** of entor means are statistically diff from 0 at the 1, 5, and 10% levels, respectively, +++, ++, (shown on female statistically diff statistically diff from 0 at the 1, 5, and 10% levels, respectively, +++, ++, (shown on female statistically diff from 0 at the 1, 5, and 10% levels, respectively, +++, ++, (shown on female statistically diff from 0 at the 1, 5, and 10% levels, respectively, +++, ++, (shown on female statistically diff from 0 at the 1, 5, and 10% levels, respectively, +++, ++, ++ (shown on female statistically diff from 0 at the 1, 5, and 10% levels, respectively, +++, ++, ++ (shown on female statistically differences are stati column) denote gender differences are statistically different at the 1, 5, and 10% levels, respectively.

Beliefs about Marriage

Table 6: Reliefs about Marriage

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Prob Marriage:	Age 23		Age 30		Age 45	
	Male	Female	Male	Female	Male	Female
Panel A: Levels (0-1 scale)						
Science/Business	.148	.167	.593	.594	.804	.778
Humanities	(.207)	(.214)	(.286) .601	(.271)	(.248) .797	(.253)
	(.214)	(.229)	(.291)	(.268)	(.253)	(.246)
No Degree	(.219)	(.26)	(.329)	.605++	(.302)	(.287)
Overall	.149	.179	.589	.634+	`.797	.793
	(.213)	(.225)	(.288)	(.266)	(.25)	(.242)
Panel B: Individual Log Differe	nces					
Sci/Business versus. Humanities	008	096*	024	147***++	.013	020
Graduate versus. No Degree	(.046)	(.053) 192**+	(.042)	(.039)	(.014)	(.024)

(.099) (.091) (.11)Panel A shows the mean and standard deviations of marriage beliefs. +++, ++, + denote gender diffs are

respectively. +++, ++, + (shown on the female column) denote gender differences are statistically significant at the 1, 5, and 10% levels, respectively.

Beliefs about Potential Spousal Earnings

Table 7: Beliefs about Potential Spousal Earnings, Conditional on Own Major (and Own Age)

		e 23	Age 30		Age 45		
	Male	Female	Male	Female	Male	Female	
Panel A: Levels (in 10,000s of dollars)							
Science/Business	5.06	5.74+	9.00	10.76++	11.29	13.68+	
	(4.12)	(3.92)	(7.72)	(9.14)	(13.25)	(13.67)	
Humanities	4.52	4.75	7.05	7.86	8.02	11.07+++	
	(7.35)	(3.75)	(8.93)	(7.69)	(7.95)	(12.90)	
No Degree	4.58	3.46	4.57	5.54	6.25	7.76	
Overall	(11.99) 5.02	(2.26) 5.30	(5.56) 8.42	(9.11) 9.74+	(9.89) 10.77	(12.03) 12.73	
	(5.90)	(3.88)	(7.60)	(8.91)	(13.20)	(13.61)	
Panel B: Individual Log Differences							
Sci/Business versus. Humanities	.185***	.198***	.282***	.292***	.241***	.221***	
	(.019)	(.015)	(.044)	(.024)	(.04)	(.026)	
Graduate versus. No Degree	.432***	.481***	.687***	.741***	.587***	.632***	
	(.048)	(.028)	(.05)	(.041)	(.054)	(.039)	

Panel A shows the mean and standard dev of beliefs about spouse's expected earnings (in \$10,000s) conditional on own major.

+++, ++, + denote gender differences are statistically different at the 1, 5, and 10% levels, respectively. Panel B shows avg. log differences and standard deviations in parentheses. **** ** denote means are statistically different from zero at the 1, 5, and 10% levels, respectively. +++, ++, +(shown on the female column) denote gender differences are statistically different at the 1, 5, and 10% levels, respectively.