

Sibling Gender Composition and Participation in STEM Education

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Motivation

- Women attain more education than men in most OECD countries
54 pct. of new entrants in tertiary edu are female (OECD 2016)
- Large differences in sex composition across fields of study
 - 28 pct. of new entrants within Science, Technology, Engineering, and Mathematics (STEM) are female
 - 75 pct. within Education, Health, and Welfare
- Returns to education vary greatly by field of study
(Altonji et al. 2012; Kirkebøen et al. 2016)

Motivation

Why are women underrepresented in STEM?

- Differences in talent cannot explain these gender gaps (Kahn and Ginther 2017)
- Different aspects of the social environment affect gender differences in math test scores
E.g. teacher gender bias, gender peer composition, teacher gender, parents' gendered stereotype beliefs and expectations, cultural stereotypes (see references in Kahn and Ginther 2017)
- Few studies trace effects into actual choice of studying and working within STEM

Research Question and Contributions

How does sibling gender composition affect participation in STEM fields?

- 1 Educational STEM choice from first place of enrollment after grade 9 through age 30
- 2 Causal estimation of sibling gender
- 3 Large quantitative analysis of child-parent interactions (mechanisms)

Imagine Two Girls



Barbara has a younger Brother

Sarah has a younger Sister

- Siblings as peers might interact differently
- Exposure to gender-stereotypical behavior \Rightarrow acquisition of traditional gender norms
(Booth et al. 2014; Schneeweis and Zweimüller 2012)

Imagine Two Girls and Their Parents



- Parental gender-specific investments: time, type of activities, etc.

Preview of Findings

1 Having an opposite sex sib: ↑ gender-typed enrollment

- Women: ↓ enroll in and complete STEM education
Effects persist into occupation and labor earnings
- Men: ↑ enroll in STEM, not completion
- No effect on educational achievement or attainment
- Not due to family size

2 Likely mechanism: gender-specific parenting

- Parents of mixed sex children invest more time in their first-born same sex child
 - Strongest effects among individuals with a more “gender-stereotypical” same sex parent
- ⇒ Stronger transmission of traditional gender norms in families with mixed sex children

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Empirical Strategy

- **Natural Experiment:** second child's gender is random, conditional on first child's gender and having a second child.
- Estimate separately for men and women:

$$Y_i^{First-Born} = \alpha_0 + \alpha_1 \textit{Opposite Sex}_s^{Second-Born} + X_i' \delta + \epsilon_i$$

X_i : Fixed effects for birth municipality; year-month of birth; immigrant; spacing in months to younger sib; parents' age at birth and level-field of education/occupation

Data

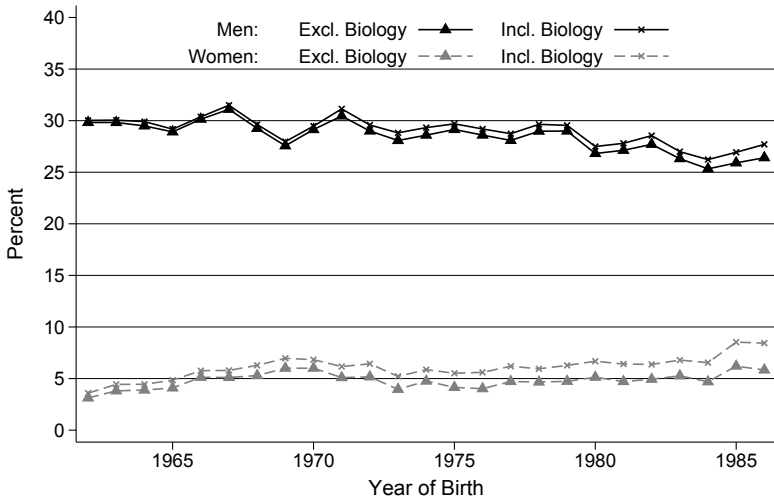
- **Danish administrative data** from 1980–2015:
 - Link individual to parents and siblings
 - Annual data on:
 - Educational enrollment (level, type, field)
 - Highest completed educational degree
 - Labor earnings and occupation
- **Sample restriction**
 - Firstborn children (mother's *and* father's first child)
 - Born 1962–1986
 - Spacing to sib < 4 years, same parents
 - No twins, child not first generation immigrant

Educational System in Denmark

- Primary school 9 years (compulsory)
 - Secondary school:
 - General academic (four tracks)
 - **Vocational** (various fields)
 - Tertiary education:
 - **Vocational** (two-year college)
 - **Professional** (four-year college)
 - **Academic** (university)
- } Vocational
- } College

Male Share

Field-Specific STEM Degree at Age 30 by Gender



Field-Specific STEM Enrollment and Completion

<i>Sample of First-Born</i>	Women		Men	
	Enrollment (1)	Completion (2)	Enrollment (3)	Completion (4)
Second-Born Opposite Sex	-0.48*** (0.14)	-0.53*** (0.10)	0.80*** (0.23)	0.32 (0.22)
Same Sex Baseline	8.7	5.0	40.9	28.5
Percent Effect	-5.5	-10.5	2.0	1.1
Observations	164,733		173,340	

Note: All estimates are multiplied by 100. STEM excluding Biology.

[Graphs](#)
[Women: detailed](#)
[Men: detailed](#)
[Labor Market](#)

Summary of STEM Results

⇒ **Opposite sex sib makes choice more gender-stereotypical**

Only limited effect for men —But potent effect for women

● **Women**

- Persistent effects from first enrollment after Grade 9 through occupational choice in mid-career
- Lower earnings

● **Men**

- Effect on STEM enrollment
- No consistent effect on STEM completion or STEM occupation

● **Educational Performance and Attainment**

- No effect ⇒ effect through interest not ability

Performance

Attainment

Possible Mechanisms: Changes in Identity

Overarching argument: individuals with an opposite sex sib more exposed to gender-stereotypical behavior and therefore more inclined to acquire traditional gender norms

- Child-parent interactions: Gender-specialized parenting
 - Parents more productive in creating own-sex human capital (Becker 1973; McHale et al. 2003; Stoneman et al. 1986)
 - Parents might derive more utility from spending time with same sex child
 - Parents spend more time and feel closer to same sex children (Bonke and Esping-Andersen 2009; Leaper et al. 1998; Maccoby 1990; Noller and Callan 1990)
- Child-sibling interactions: greater awareness of “appropriate” behavior for own gender

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Parental Time Investment at Age 7 and 11

	Mother		Father	
	Age 7 (1)	Age 11 (2)	Age 7 (3)	Age 11 (4)
<i>Sample of First-Born Girls</i>				
Second-Born Brother	0.14*	0.16*	-0.15*	-0.21**
	(0.08)	(0.09)	(0.09)	(0.09)
Average	0.04	-0.00	-0.08	-0.08
Observations	657	616	470	453
<i>Sample of First-Born Boys</i>				
Second-Born	-0.15**	-0.18**	-0.08	-0.05
	(0.08)	(0.08)	(0.09)	(0.10)
Average	-0.04	0.00	0.07	0.08
Observations	694	645	514	460

Note: Parental quality time index (mean 0, SD 1)
Danish Longitudinal Survey of Children, born 1995

Parental Investment in Children

Parents of mixed sex children:

- gender-specialize time investment more especially in families with first-born daughter
- expose boys less to female-typed housework Housework
- worse relationship between fathers and daughters Relations

Parental gender-specialization also found in main sample

Non-traditional family: Opposite sex sib ↑ first-born child lives with same sex parent and second-born child with opposite sex parent

Family Structure

Heterogeneity

- Parental Field Field
 - Effects are concentrated among individuals with a more “gender-stereotypical” same sex parent
Mother in Administration or Health —Father in STEM
- Parental Division of Labor Traditional
 - Women: No heterogeneity
 - Men: Effect is strongest among traditional families
Father works ≥ 75 pct. of parental labor supply
- Spacing Spacing
 - Only effect for women ≤ 4 years
 - Only effect for men ≤ 2 years

Robustness to Family Size

- First-born children with second-born same sex sib have 0.07 more siblings Fertility
 - Family size has no effect on educational attainment (Angrist et al. 2010; Black et al. 2005)
 - I replicate this finding for main sample, using twins as IV
 - ... and show no effect on STEM enrollment
 - Women: negative effect of family size on STEM completion
- ⇒ Estimates of sib gender might be conservative for women

Family Size and STEM

Other Robustness Checks

Main results are robust to:

- Restricting sample to families with 2/3+ children
- Controlling for family size
- Definition of STEM and Care fields Narrow Field
- Same sign of correlation between second-born child's STEM choice and first-born's gender Second-Born
- Effect of co-twin's gender First parity Any parity

Conclusion

- 1 **Having an opposite sex sib: ↑ gender-typed enrollment**
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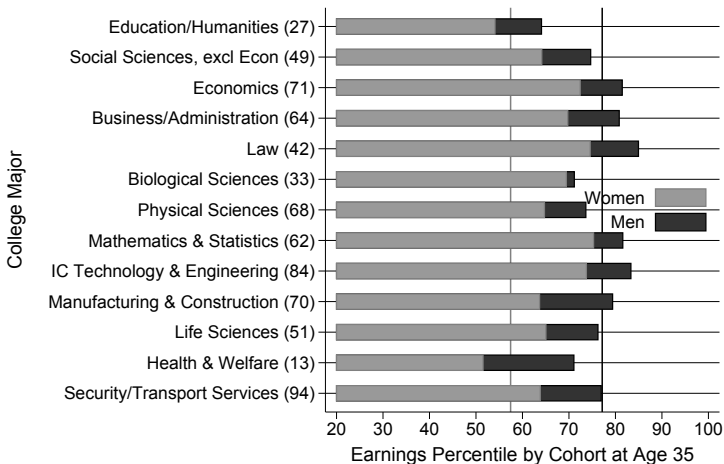
Implications

The family environment plays an important role for shaping STEM interests

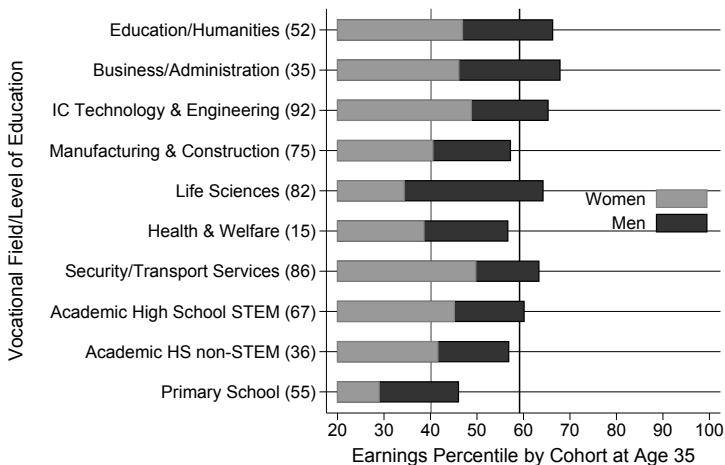
- 1 Early interventions needed if we want to increase children's (girls') interests in math and science
- 2 More people in STEM, need to focus on early exposure to gender-stereotypes in the social environment
- 3 To give boys and girls same labor market opportunities, policy makers would need to focus on how to counteract the transmission of gender norms across generations

Thank you!

Ave Earnings Percentile at age 35 by College Field



Ave Earnings Pctile at age 35 by Field and Type of Edu



Descriptive Statistics

	<i>First-Born Women</i>		<i>First-Born Men</i>	
	Sister	Brother	Sister	Brother
Second-Born	(1)	(2)	(3)	(4)
<i>Panel A: Average by Gender of the Second-Born Sibling</i>				
Spacing (months)	30.4	30.5	30.5	30.4
2 nd Gen. Immigrant (pct.)	1.2	1.2	1.2	1.1
Mother's age (years)	23.3	23.3	23.3	23.3
Father's age (years)	26.1	26.0	26.1	26.0
Mother's education (years)	11.2	11.2	11.2	11.2
Father's education (years)	12.0	12.0	12.0	12.0
Observations	80,593	84,140	84,360	88,980
<i>Panel B: Balancing Test</i>				
Joint F-statistic	0.90		0.95	
Prob > F	0.98		0.83	

Note: Balancing Test of whether family background can predict having younger gender-discordant sibling.

Women's Field-Spec STEM Edu: Brother-Sister

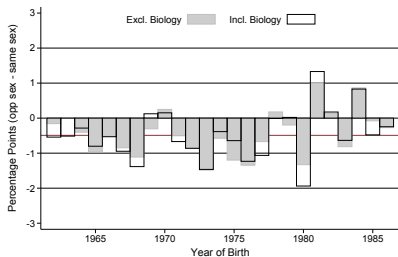


Figure: Enrollment

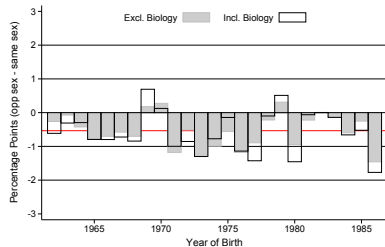


Figure: Completion

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Men's Field-Specific STEM Edu: Sister-Brother

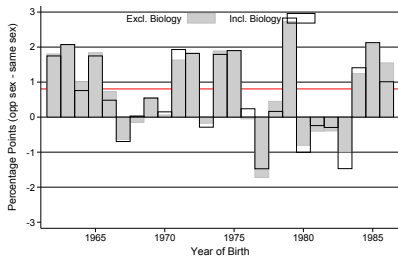


Figure: Enrollment

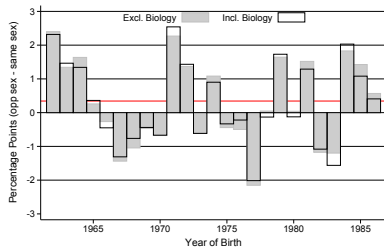


Figure: Completion

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Women: STEM Educational Process

	STEM in First	Academic HS STEM Track		Vocational STEM		College STEM Major	
	Enroll- ment (1)	Enroll- ment (2)	Comple- tion (3)	Enroll- ment (4)	Comple- tion (5)	Enroll- ment (6)	Comple- tion (7)
Second-Born Brother	-0.89*** (0.21)	-0.91*** (0.22)	-0.87*** (0.19)	-0.18* (0.11)	-0.18*** (0.07)	-0.37*** (0.10)	-0.36*** (0.08)
SS Baseline	25.7	26.7	20.8	4.2	2.0	4.9	3.1
Percent Effect	-3.5	-3.4	-4.2	-4.3	-9.0	-7.6	-11.5

Note: All estimates are multiplied by 100.

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Men: STEM Educational Process

	STEM in First	Academic HS STEM Track		Vocational STEM		College STEM Major	
	Enroll- ment (1)	Enroll- ment (2)	Comple- tion (3)	Enroll- ment (4)	Comple- tion (5)	Enroll- ment (6)	Comple- tion (7)
Second-Born Sister	0.40* (0.24)	0.22 (0.23)	0.12 (0.19)	0.53** (0.22)	0.26 (0.20)	0.33** (0.15)	0.09 (0.13)
SS Baseline	51.5	36.0	25.2	30.4	21.0	12.5	8.3
Percent Effect	0.8	0.6	0.5	1.7	1.2	2.6	1.1

Note: All estimates are multiplied by 100.

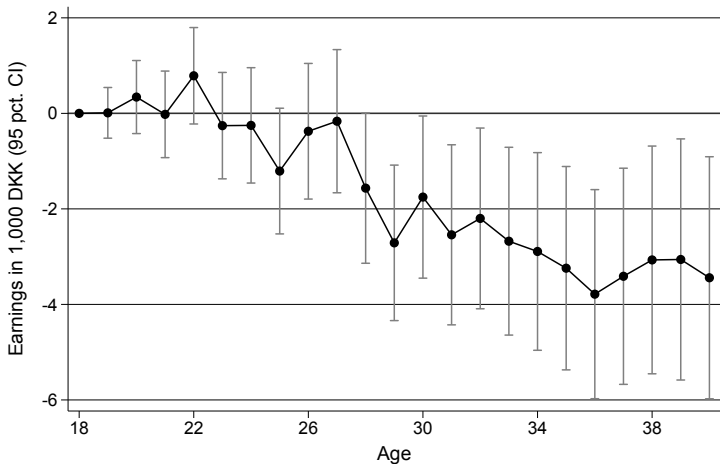
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STEM Occupation and Labor Earnings

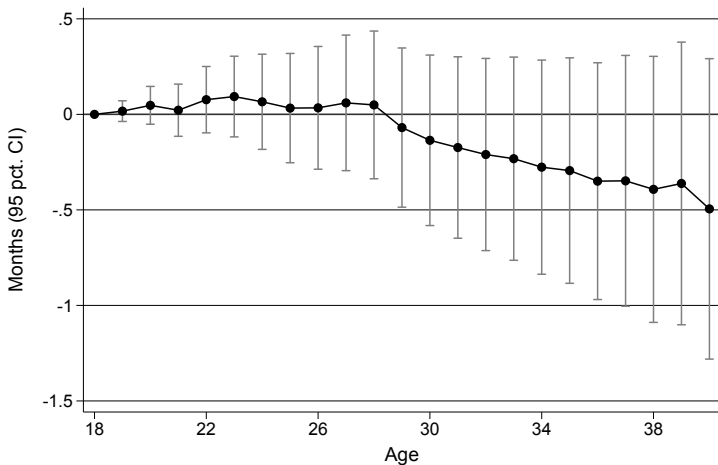
Age	<i>Sample of First-Born Women</i>				<i>Sample of First-Born Men</i>			
	21–25 (1)	26–30 (2)	31–35 (3)	36–40 (4)	21–25 (5)	26–30 (6)	31–35 (7)	36–40 (8)
Share of Years in STEM Occupation								
Second-Born Brother	-0.05 (0.04)	-0.14** (0.06)	-0.34*** (0.10)	-0.45*** (0.10)	0.00 (0.05)	0.04 (0.09)	0.13 (0.17)	0.30* (0.18)
Same Sex Baseline	1.1	2.4	4.5	4.6	2.1	5.8	11.9	12.3
Percent Effect	-4.7	-5.9	-7.5	-9.7	0.0	0.7	1.1	2.4
Observations	120,615	120,621	119,967	119,034	126,981	126,983	126,354	124,933
Log(Labor Earnings)								
Second-Born Sister	-0.07 (0.51)	-0.14 (0.61)	-1.27** (0.52)	-1.50*** (0.50)	-0.40 (0.49)	-0.23 (0.49)	-1.58*** (0.54)	-1.47** (0.57)
Observations	118,766	117,269	115,522	113,346	125,814	124,973	123,027	120,031

Note: All estimates are multiplied by 100.

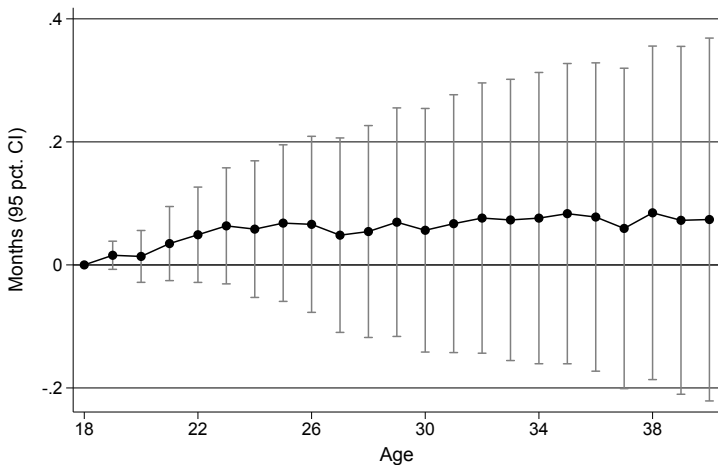
Women: Labor Earnings (1,000 DKK)



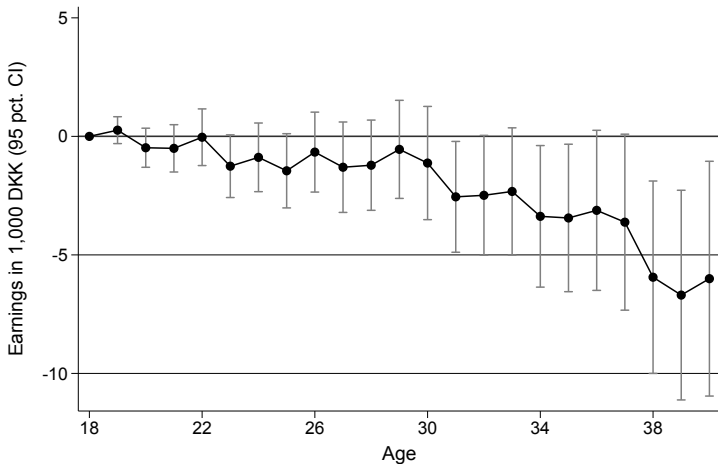
Women: Cumulated Work Experience (Months)



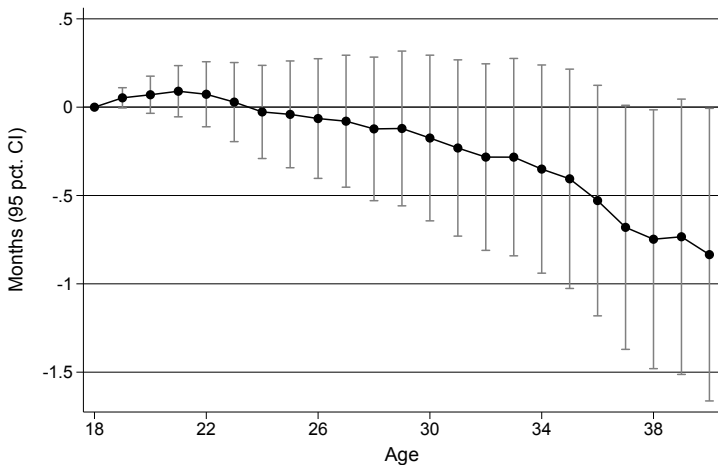
Women: Cumulated Unemployment (Months)



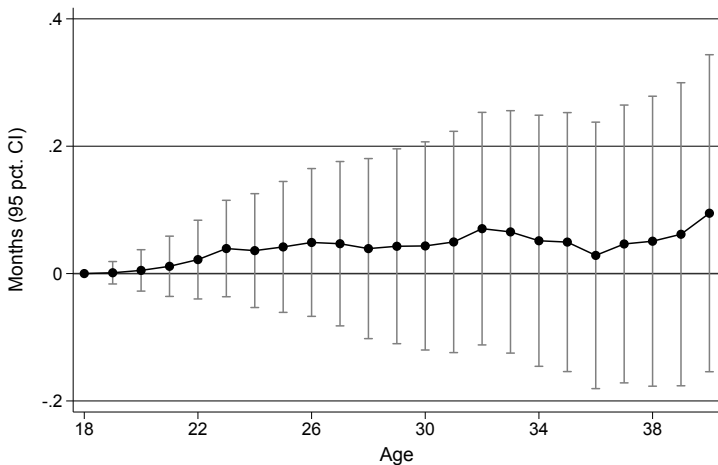
Men: Labor Earnings (1,000 DKK)



Men: Cumulated Work Experience (Months)



Men: Cumulated Unemployment (Months)



Educational Performance

<i>Sample of</i>	<i>First-Born Girls</i>			<i>First-Born Boys</i>		
	Grade 9 written exam		Aca- demic	Grade 9 written exam		Aca- demic
	Danish (1)	Math (2)	HS (3)	Danish (4)	Math (5)	HS (6)
<i>Panel A: Standardized GPA (Population Mean 0, SD 1)</i>						
Second-Born	-0.009	-0.009	-0.009	0.002	0.004	0.009
Opposite Sex	(0.006)	(0.006)	(0.006)	(0.006)	(0.006)	(0.008)
Average	0.411	0.191	0.042	-0.031	0.288	0.064
Observations	87,070	86,383	85,524	88,631	88,465	58,608

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Educational Attainment

	Post-Compulsory		Vocational		College	
	Enroll- ment (1)	Comple- tion (2)	Enroll- ment (3)	Comple- tion (4)	Enroll- ment (5)	Comple- tion (6)
<i>Sample of First-Born Women</i>						
Second-Born	0.00	-0.09	-0.06	0.04	-0.04	-0.20
Brother	(0.12)	(0.17)	(0.24)	(0.23)	(0.21)	(0.22)
Same Sex Baseline	95.2	85.7	54.3	40.5	45.7	38.5
Percent Effect	0.0	-0.1	-0.1	0.1	-0.1	-0.5
<i>Sample of First-Born Men</i>						
Second-Born	-0.06	-0.20	0.13	-0.06	-0.06	-0.28
Sister	(0.10)	(0.19)	(0.21)	(0.24)	(0.20)	(0.20)
Same Sex Baseline	94.7	82.4	66.2	50.9	34.0	26.8
Percent Effect	-0.1	-0.2	0.2	-0.1	-0.2	-1.0

Note: All estimates are multiplied by 100.

Housework at Age 7 and 11

<i>Sample of First-Born</i>	Girls		Boys	
	7 (1)	11 (2)	7 (3)	11 (4)
Second-Born	0.01	-0.04	-0.17**	0.02
Opposite Sex	(0.09)	(0.10)	(0.09)	(0.09)
Same Sex Baseline	0.05	0.11	-0.05	-0.11
Observations	485	448	533	452

Note: Index of how much the parents involve the child in housework activities.
Danish Longitudinal Survey of Children, born 1995

Quality of Child-Parent and Child-Sib Relations

	Mother's	Fathers'	Child's relationship to		
	Relationship to Child		Mother	Father	Siblings
Child Age	11/15 (1)	7 (2)	15 (3)	15 (4)	15 (5)
<i>Sample of First-Born Girls</i>					
Second-Born	-0.08	-0.23***	-0.01	-0.20**	-0.37***
Brother	(0.10)	(0.09)	(0.09)	(0.10)	(0.09)
Average	0.01	0.02	0.08	-0.06	0.09
Observations	494	485	558	547	537
<i>Sample of First-Born Boys</i>					
Second-Born	0.08	0.05	-0.09	0.01	-0.17**
Sister	(0.09)	(0.09)	(0.08)	(0.07)	(0.09)
Average	-0.01	-0.01	-0.08	0.06	-0.08
Observations	513	529	596	587	565

Note: Indexes with mean 0 and SD 1 (higher value, better relation).
Danish Longitudinal Survey of Children, born 1995

Family Structure at Age 17

Sample	<i>First-Born Women</i>			<i>First-Born Men</i>		
	All	Non-Traditional		All	Non-Traditional	
First-Born lives w	Both parents (1)	SSP (2)	SSP, sib w OSP (3)	Both parents (4)	SSP (5)	SSP, sib w OSP (6)
Second-Born	-0.04	0.91**	5.23***	-0.07	0.47	3.55***
Opposite Sex	(0.18)	(0.39)	(0.27)	(0.20)	(0.47)	(0.38)
Same Sex Baseline	78.6	78.2	4.4	79.1	29.2	13.8
Percent Effect	-0.1	1.2	119.6	-0.1	1.6	25.7
Observations	162,564	34,922	34,745	171,416	35,913	35,736

Note: All estimates are multiplied by 100.

Field-Specific STEM Education: Parental Field

<i>Sample of</i>	<i>First-Born Women</i>		<i>First-Born Men</i>	
	Enroll- ment (1)	Comple- tion (2)	Enroll- ment (3)	Comple- tion (4)
Second-Born	-0.08	-0.21	0.62	0.08
Opposite Sex (SBOS)	(0.20)	(0.15)	(0.38)	(0.34)
SBOS × Mom Admin	-1.41*** (0.49)	-0.71* (0.38)	-1.00 (0.75)	-0.69 (0.68)
SBOS × Mom Health	-0.66** (0.29)	-0.63*** (0.22)	-0.04 (0.53)	-0.13 (0.48)
SBOS × Dad STEM	-0.05 (0.28)	-0.08 (0.22)	0.76* (0.45)	0.88** (0.42)

Note: All estimates are multiplied by 100.

Field-Specific STEM Edu: Parental Labor Division

<i>Sample of</i>	<i>First-Born Women</i>		<i>First-Born Men</i>	
	Enroll- ment (1)	Comple- tion (2)	Enroll- ment (3)	Comple- tion (4)
Second-Born	-0.43**	-0.40***	0.57**	0.26
Opposite Sex (SBOS)	(0.17)	(0.13)	(0.26)	(0.17)
SBOS×Traditional	-0.25	0.08	1.26**	0.31
Division	(0.33)	(0.24)	(0.56)	(0.36)

Note: All estimates are multiplied by 100.

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Field-Specific STEM Education by Spacing

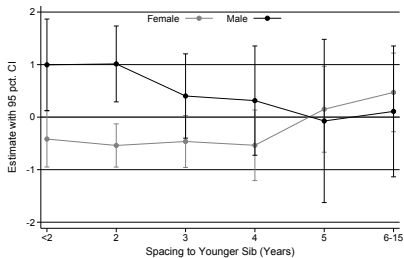


Figure: Enrollment

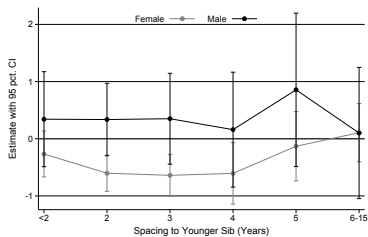


Figure: Completion

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Sibling Gender Composition and Number of Siblings

<i>Sample of</i>	<i>First-Born Women</i>			<i>First-Born Men</i>		
	# of Siblings (1)	≥ 2 Siblings (2)	≥ 3 Siblings (3)	# of Siblings (4)	≥ 2 Siblings (5)	≥ 3 Siblings (6)
Second-Born Opposite Sex	-0.07*** (0.00)	-4.96*** (0.22)	-1.43*** (0.13)	-0.08*** (0.00)	-6.89*** (0.23)	-1.33*** (0.13)
Same Sex Baseline Percent Effect	1.7 -4.2	38.1 -13.0	8.5 -16.9	1.7 -4.7	40.1 -17.2	8.4 -15.8

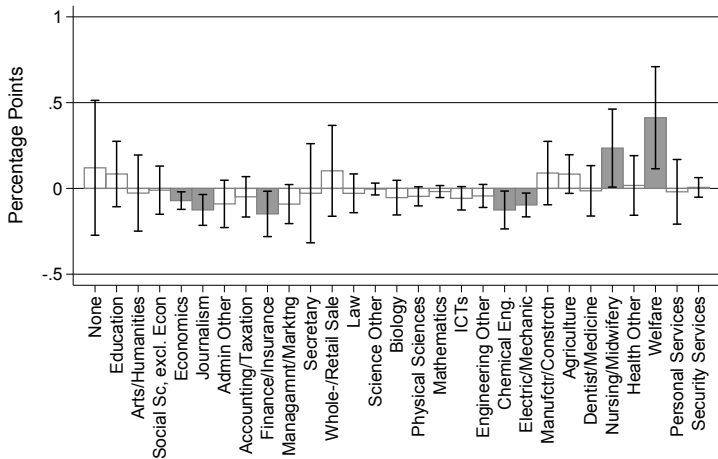
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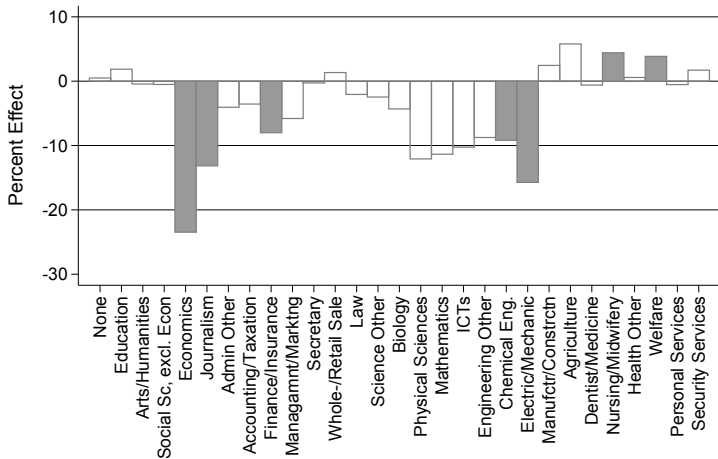
Family Size and STEM Education using Twins as IV

	First Stage	Second Stage				
	# of Siblings (1)	Years of education (2)	Field-spec STEM		College STEM	
			Enrollment (3)	Completion (4)	Enrollment (5)	Completion (6)
<i>Sample of First-Born Women (N = 166,213)</i>						
Twins at 2 nd parity	0.74*** (0.018)					
# of Siblings		0.03 (0.07)	-0.87 (0.92)	-1.13* (0.63)	-0.15 (0.76)	-0.93* (0.52)
Average Effect×0.07	1.6	13.5 0.00	8.5 -0.06	4.8 -0.08	4.7 -0.01	2.9 -0.07
<i>Sample of First-Born Men (N = 175,032)</i>						
Twins at 2 nd parity	0.72*** (0.016)					
# of Siblings		-0.11 (0.08)	-0.67 (1.58)	0.81 (1.56)	0.25 (1.01)	-0.01 (0.88)
Average Effect×0.08	1.7	13.3 -0.01	41.2 -0.05	28.7 0.06	12.7 0.02	8.3 0.00

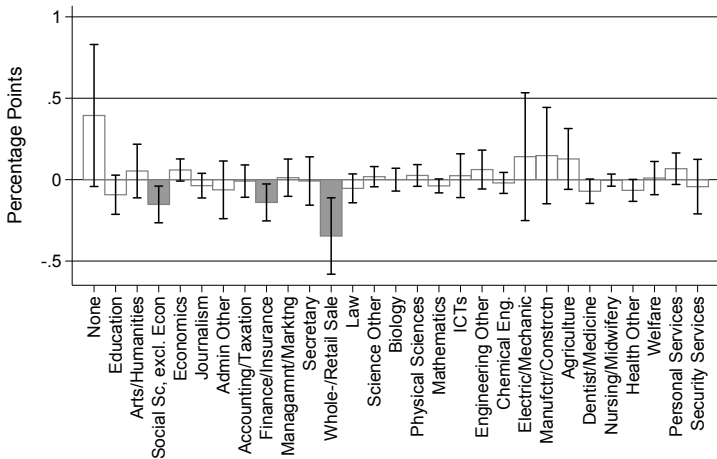
Women: Narrow Field (highest compl)



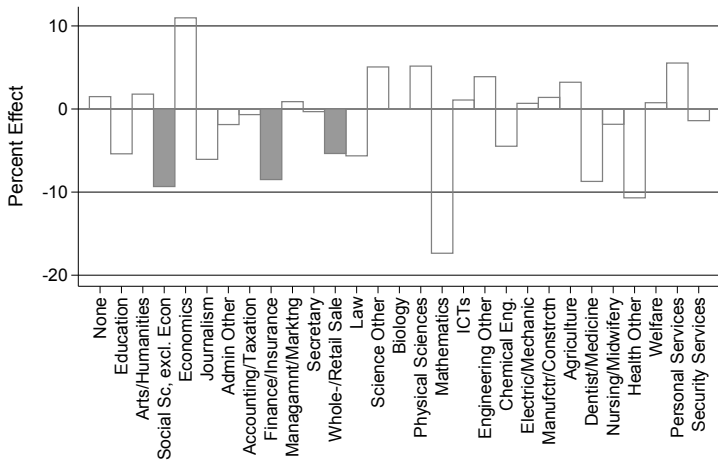
Women: Narrow Field (highest compl, pct.)



Men: Narrow Field (highest compl)



Men: Narrow Field (highest compl, pct.)



Effect of Co-Twin's Gender: First Parity

	Next Birth (1)	Field-Specific STEM		STEM in First	STEM in Highest
		Enroll- ment (2)	Comple- tion (3)	Enroll- ment (4)	Comple- tion (5)
<i>Panel A: Female Twins (N = 4,730)</i>					
Co-Twin Brother	-0.48* (0.29)	-1.95** (0.90)	-2.05*** (0.68)	-0.79 (1.50)	-1.79*** (0.64)
Same Sex Baseline	42.0	8.5	5.4	26.1	4.7
Percent Effect	-1.1	-23.0	-37.9	-3.0	-37.7
<i>Panel B: Male Twins (N = 4,832)</i>					
Co-Twin Sister	-0.58* (0.31)	3.14* (1.68)	1.46 (1.54)	2.56 (1.72)	1.32 (1.52)
Same Sex Baseline	40.2	37.8	26.4	48.1	25.5
Percent Effect	-1.4	8.3	5.5	5.3	5.2

Effect of Co-Twin's Gender: Any Parity

	Next Birth (1)	Field-Specific STEM		STEM in First	STEM in Highest
		Enroll- ment (2)	Comple- tion (3)	Enroll- ment (4)	Comple- tion (5)
<i>Panel A: Female Twins (N = 12,755)</i>					
Co-Twin Brother	-1.32** (0.60)	-1.56*** (0.51)	-1.40*** (0.38)	-2.81*** (0.82)	-1.26*** (0.36)
Same Sex Baseline	24.1	8.0	4.7	23.3	4.3
Percent Effect	-5.5	-19.6	-29.9	-12.1	-29.6
<i>Panel B: Male Twins (N = 13,067)</i>					
Co-Twin Sister	-1.83*** (0.61)	2.89*** (0.97)	1.28 (0.89)	2.10** (0.99)	1.71* (0.88)
Same Sex Baseline	23.6	37.2	26.0	46.1	24.9
Percent Effect	-7.8	7.8	4.9	4.6	6.9

The Effect of an Older Sibling's Gender

	Field-Specific		College	
	Enrollment (1)	Completion (2)	Enrollment (3)	Completion (4)
<i>Sample of Second-Born Women</i>				
First-Born	-0.29**	-0.17*	-0.21**	-0.20***
Brother	(0.12)	(0.09)	(0.09)	(0.07)
Same Sex Baseline	7.8	4.1	3.9	2.5
Percent Effect	-3.7	-4.1	-5.4	-8.1
<i>Sample of Second-Born Men</i>				
First-Born	2.37***	1.67***	0.31**	0.16
Sister	(0.24)	(0.23)	(0.14)	(0.12)
Same Sex Baseline	39.0	27.3	9.9	6.6
Percent Effect	6.1	6.1	3.1	2.4

Note: All estimates are multiplied by 100.