

ON-LINE APPENDIX for
 Gender Differences in Fields of Specialization and Placement Outcomes
 among Ph.D. in Economics

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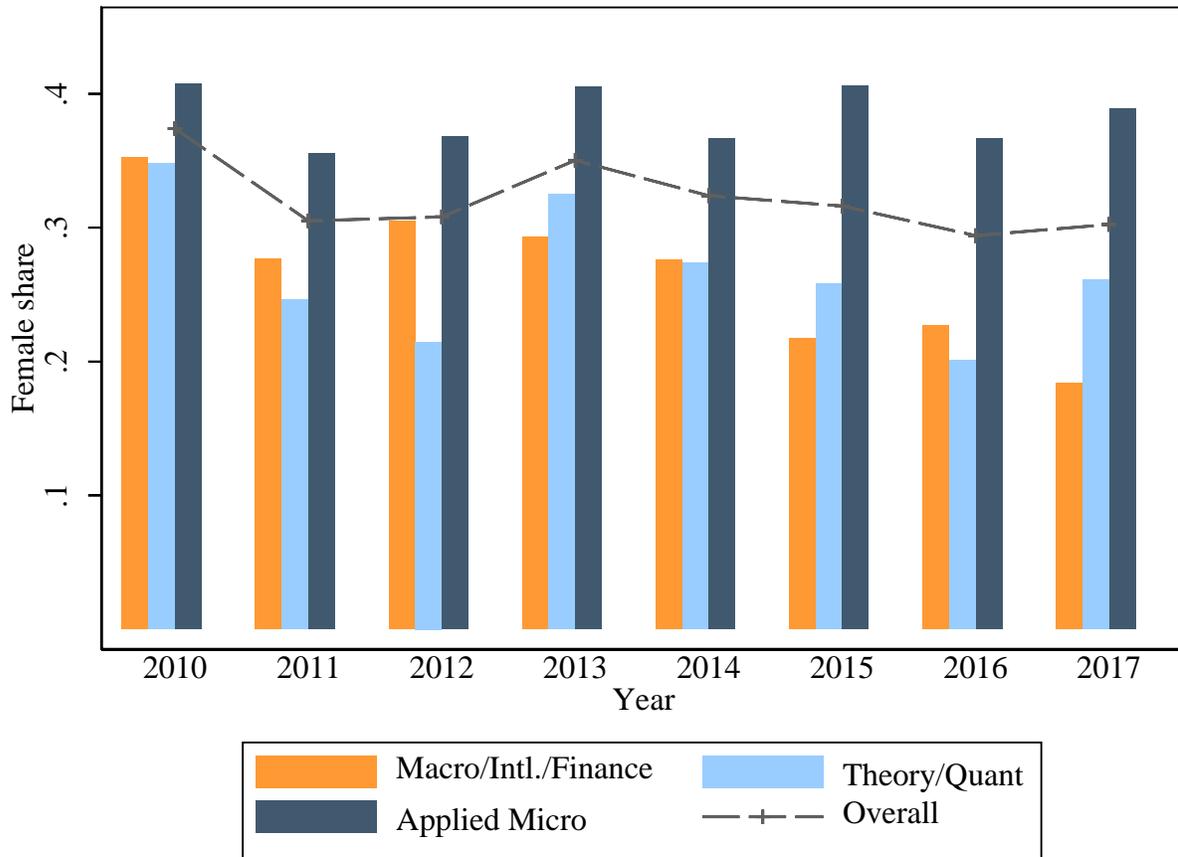


Figure A1. Female Share by Broad Areas of Specialization

Table A1. Principal Non-Academic Employers

Non-Academic Employers	CB/MCB	RePec Ranking	Count
ABT Associates	No		11
Amazon	No		60
Analysis Group	No		59
Asian Development Bank (ADB)	Yes		-
B.C. Ministry of Finance	Yes		-
Bank for International Settlements	Yes	45	-
Bank of America	No		14
Bank of Canada	Yes	124	34
Bank of Chile	Yes		5
Bank of Colombia	Yes		-
Bank of England	Yes	88	-
Bank of Finland	Yes		-
Bank of France	Yes		-
Bank of Hungary	Yes		-
Bank of Ireland	Yes		-
Bank of Italy	Yes	44	7
Bank of Japan	Yes		-
Bank of Korea	Yes		18
Bank of Mexico	Yes		13
Bank of Peru	Yes		-
Bank of Portugal	Yes		-
Bank of Spain	Yes		-
Bank of Taiwan	Yes		-
Bank of Turkey	Yes		11
Bates White	No		13
Brattle Group	No		12
Census Bureau	No		20
Central American Monetary Council	Yes		-
Charles River Associates	No		15
Congressional Budget Office	Yes		12
Cornerstone Research	No		36
Ernst & Young	No		14
European Bank for Reconstruction and Development	Yes		-
European Central Bank	Yes	19	-
Financial Supervisory Service, South Korea	Yes		-
Freddie Mac	No		14
Hong Kong Monetary Authority	Yes		-
IMPAQ International	No		18
Inter-American Development Bank	Yes	120	13
International Fund for Agricultural Development	Yes		-
International Initiative for Impact Evaluation	Yes		-
International Monetary Fund	Yes	6	67
JP Morgan	No		14

Table A1. Principal Non-Academic Employers (ctd.)

Non-Academic Employers	CB/MCB	RePec Ranking	Count
Korea Development Institute	No		12
Korea Institute of Finance	Yes		-
Korea Institute of Public Finance	No		10
Mathematica	No		28
Ministry of Finance and Public Credit of Mexico.	Yes		-
Ministry of Finance of Chile	Yes		-
Ministry of the Interior, Cambodia	Yes		-
Moody's Analytics	No		18
NERA Economic Consulting	No		10
New York City Independent Budget Office	Yes		-
Norges Bank	Yes		-
OECD	Yes		6
Office of the Comptroller of the Currency	Yes		8
PwC	No		15
RAND	No		18
Reserve Bank of New Zealand	Yes		-
Saudi Arabian Monetary Agency	Yes		-
Sveriges Riksbank	Yes	237	-
U.S. Department of Agriculture	No		15
U.S. Federal Deposit Insurance Corporation	No		10
U.S. Federal Reserve (other)	Yes		-
U.S. Federal Reserve Bank of Atlanta	Yes	177	-
U.S. Federal Reserve Bank of Boston	Yes	181	6
U.S. Federal Reserve Bank of Chicago	Yes	59	-
U.S. Federal Reserve Bank of Cleveland	Yes	170	6
U.S. Federal Reserve Bank of Dallas	Yes	104	-
U.S. Federal Reserve Bank of Kansas City	Yes	364	6
U.S. Federal Reserve Bank of Minneapolis	Yes	72	6
U.S. Federal Reserve Bank of New York	Yes	39	13
U.S. Federal Reserve Bank of Philadelphia	Yes	145	5
U.S. Federal Reserve Bank of Richmond	Yes	214	-
U.S. Federal Reserve Bank of San Francisco	Yes	80	-
U.S. Federal Reserve Bank of St Louis	Yes	61	-
U.S. Federal Reserve Board of Governors	Yes	17	85
U.S. Federal Trade Commission	Yes		11
U.S. International Trade Commission	Yes		-
U.S. Securities and Exchange Commission	Yes		-
U.S. Treasury Department	Yes		17
United Nations Development Programme	Yes		-
World Bank Group	Yes	4	58

Note: The list include all institutions in our Central Bank (CB)/Multilateral Development Bank (MCB) list, plus non-academic employers with a least 10 placements. The dash indicates less than 5 placements.

Table A2. List of Research Fields

Field	Index	Narrow Groups	Broad Areas
<i>JEL</i>			
General Economics and Teaching	A	Misc.(A/P/Y/Z)	
History of Economic Thought, Methodology, and Heterodox Approaches	B	Econ History (N/B)	Applied Micro
Mathematical and Quantitative Methods	C	Math/Quant. (C)	Theory/Quant
Microeconomics	D	Micro (D)	Theory/Quant
Macroeconomics and Monetary Economics	E	Macro/Monetary (E)	Macro/Intl./Finance
International Economics	F	International (F)	Macro/Intl./Finance
Financial Economics	G	Finance/Business (G/M)	Macro/Intl./Finance
Public Economics	H	Public/Law (H/K)	Applied Micro
Health, Education, and Welfare	I	Health/Educ. (I)	Applied Micro
Labor and Demographic Economics	J	Labor/Demo. (J)	Applied Micro
Law and Economics	K	Public/Law (H/K)	Applied Micro
Industrial Organization	L	IO (L)	Applied Micro
Business Administration and Business Economics • Marketing • Accounting • Personnel Economics	M	Finance/Business (G/M)	Macro/Intl./Finance
Economic History	N	Econ History (N/B)	Applied Micro
Economic Development, Innovation, Technological Change, and Growth	O	Development (O)	Applied Micro
Economic Systems	P	Special/System (Z/P)	
Agricultural and Natural Resource Economics • Environmental and Ecological Economics	Q	Agri./Env. (Q)	Applied Micro
Urban, Rural, Regional, Real Estate, and Transportation Economics	R	Urban (Q)	Applied Micro
Miscellaneous Categories	Y	Misc.(A/P/Y/Z)	
Other Special Topics	Z	Special/System (Z/P)	

Source: American Economic Association (<https://www.aeaweb.org/econlit/jelCodes.php>, retrieved September 21, 2020); EconJobMarket (<https://econjobmarket.org>, retrieved September 21, 2020).

Note: Fields with a smaller number of applicants have been regrouped with similar for illustrative purposes. The narrow groups are used in Figure 1, and the broad areas in Figure A1.

Table A2. List of Research Fields (ctd.)

Field	Index	Narrow Groups	Broad Areas
<i>EJM</i>			
Economic Development	1	Development	Applied Micro
Econometrics/Computational Economics	2	Metrics/Computational	Theory/Quant
Economic History	3	Econ History	Applied Micro
Environmental Economics	4	Environment	Applied Micro
Experimental Economics	5	Experiment	Applied Micro
Finance	6	Finance	Macro/Intl./Finance
Industrial Organization	7	IO	Applied Micro
International Finance	8	Intl. Finance	Macro/Intl./Finance
International Trade	9	Intl. Trade	Macro/Intl./Finance
Labor and Demographic Economics	10	Labor/Demo	Applied Micro
Macroeconomics	11	Macro	Macro/Intl./Finance
Microeconomics	12	Micro	Theory/Quant
Public Economics/Law and Economics	13	Public/Law	Applied Micro
Theory	14	Theory	Theory/Quant
Behavioural Economics	15	Behavioural	Applied Micro
Other	16	Other	
Urban and Regional Economics	17	Urban	Applied Micro
Health, Education and Welfare	18	Health/Educ.	Applied Micro
Business Economics	19	Business	Macro/Intl./Finance
Political Economy	20	Political	Applied Micro

Note: Fields with a smaller number of applicants have been regrouped with similar for illustrative purposes. The narrow groups are used in Figure 1, and the broad areas in Figure A1.

Table A3. Summary Statistics by Research Fields

Field	Number of applicants	Distribution across Fields			Female share
		All	Men	Women	
<i>JEL</i>					
Math and Quant Methods (C)	346	0.074	0.083	0.054	0.234
Microeconomics (D)	874	0.187	0.199	0.161	0.277
Macro and Monetary Econ (E)	463	0.099	0.116	0.062	0.201
International Econ (F)	353	0.075	0.070	0.086	0.365
Financial Econ (G)	369	0.079	0.085	0.065	0.263
Public (H) / Law and Econ (K)	237	0.051	0.051	0.050	0.316
Health, Education, Welfare (I)	475	0.101	0.083	0.141	0.446
Labor and Demographic Econ (J)	490	0.105	0.084	0.148	0.453
Industrial Organization (L)	244	0.052	0.056	0.044	0.270
Business (M)	25	0.005	0.006	0.003	0.200
Econ History (N) / Thought (B)	36	0.008	0.009	0.005	0.222
Econ Development (O)	211	0.045	0.042	0.051	0.365
Agriculture and Environment (Q)	307	0.066	0.063	0.070	0.342
Urban, Rural, Transportation (R)	158	0.034	0.031	0.040	0.380
Misc (Y) / General, Teaching (A)	32	0.007	0.008	0.004	0.188
Special (Z) / Econ Systems (P)	65	0.014	0.013	0.016	0.369
Total	4,685	1.000	1.000	1.000	0.321
<i>EJM</i>					
Development	396	0.085	0.069	0.117	0.444
Econometrics / Computational	290	0.062	0.068	0.048	0.248
Economic History	38	0.008	0.008	0.009	0.342
Environmental Economics	279	0.060	0.059	0.061	0.326
Experimental Economics	82	0.018	0.016	0.020	0.366
Finance/Business Economics	281	0.060	0.068	0.044	0.235
Industrial Organization	334	0.071	0.078	0.057	0.257
International Finance	188	0.040	0.042	0.036	0.287
International Trade	252	0.054	0.051	0.061	0.361
Labor and Demographic	509	0.109	0.092	0.144	0.426
Macroeconomics	715	0.153	0.176	0.104	0.218
Microeconomics	381	0.081	0.081	0.082	0.323
Public / Law	268	0.057	0.059	0.053	0.299
Theory	134	0.029	0.034	0.017	0.194
Behavioural	73	0.016	0.015	0.017	0.342
Other	50	0.011	0.011	0.009	0.280
Urban, Regional	76	0.016	0.014	0.021	0.421
Health, Education, Welfare	274	0.058	0.043	0.091	0.500
Political Economy	65	0.014	0.016	0.009	0.200
Total	4,685	1.000	1.000	1.000	0.321

Notes: Sample comprises 4,685 applicants in 2010-17, including 3,183 males and 1,502 females.

Table A4. Summary Statistics of Quality Indicators

Quality Indicators	All		Men		Women		Female share
	Count	Freq.	Count	Freq.	Count	Freq.	
Phd Institutions							
Top 10	1,296	0.277	946	0.297	350	0.233	0.270
Top 12-50	1,493	0.319	1022	0.321	471	0.314	0.315
Top 51-100	968	0.207	636	0.200	332	0.221	0.343
Top 101-200	928	0.198	579	0.182	349	0.232	0.376
7+ Yrs PhD	471	0.101	322	0.101	149	0.099	0.316

Note: PhD granting institutions' ranking are from the RePEc rankings of Top 25% Economics Departments as of February, 2019 (<https://ideas.repec.org/top/top.econdept.html>).