

Tables and Figures

This draft, July 2, 2007

Figures

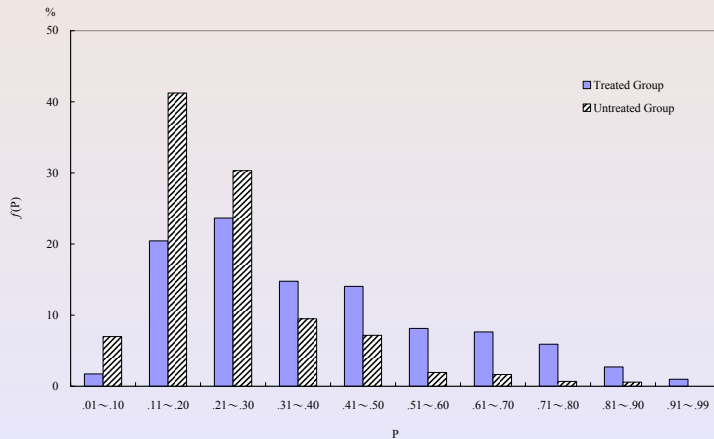
Figure 1: Density of Estimated Propensity Score $\Pr(D=1)$ Figure 1. Density of Estimated Propensity Score $\Pr(D=1)$

Figure 2: Marginal Treatment Effect as a Function of Unobserved Heterogeneity U_D

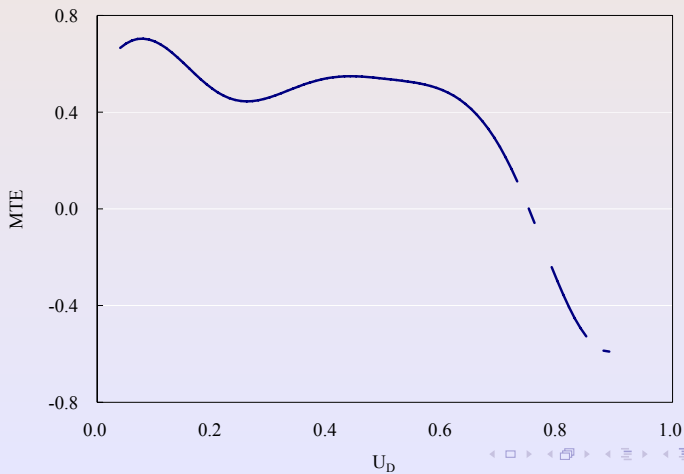


Figure 3: Weights of Treatment Parameters

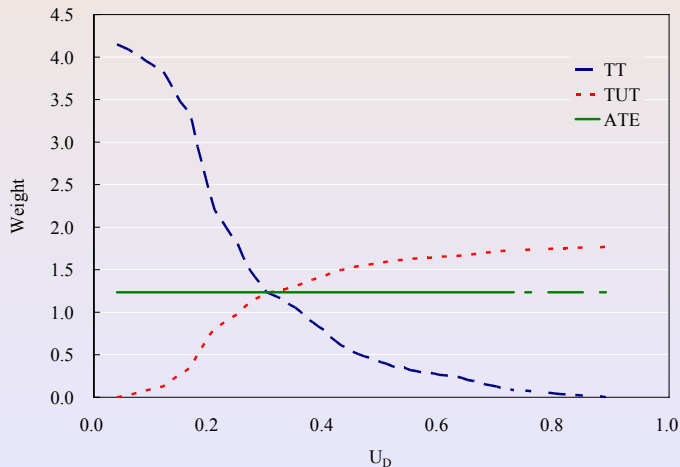
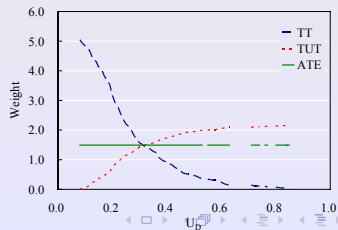
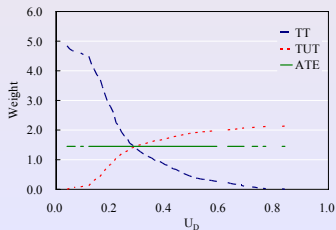
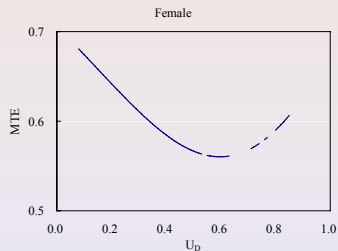
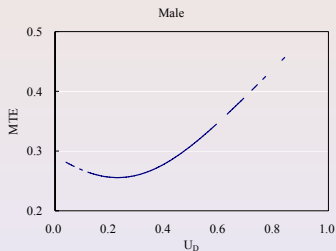


Figure 3. Weights of Treatment Parameters

Figure 4: Gender-specific MTE and Weights as a Function of Unobserved Heterogeneity U_D



Tables

Table 1: Variables and Descriptive Statistics

Independent Variables	Total (N = 1,439)		Treated Group (N = 406)		Untreated Group (N = 1,033)	
	Mean	SD	Mean	SD	Mean	SD
4 years' college attendee (= 1, if yes)	.282		1.000		.000	
Monthly earnings	37,887	24,134	45,000	25,225	35,092	23,112
Log of earnings	10.419	.477	10.614	.437	10.343	.471
Mincer experience (= Age - years of schooling - 6)	9.585	3.504	6.892	2.892	10.644	3.138
Male (= 1, if yes)	.548		.532		.555	
Parental education						
Father's years of schooling	8.520	3.843	10.399	4.084	7.781	3.478
Mother's years of schooling	6.630	3.583	8.180	3.951	6.021	3.232

Table 1 continued

Independent Variables	Total (N = 1,439)		Treated Group (N = 406)		Untreated Group (N = 1,033)	
	Mean	SD	Mean	SD	Mean	SD
Ethnicity						
Hokkien (= 1, if yes)	.735		.704		.747	
Hakka (= 1, if yes)	.138		.128		.141	
Mainlander (= 1, if yes)	.120		.165		.102	
Aborigine (= 1, if yes)	.008		.002		.010	
Residence prior to age 15						
Major city (= 1, if yes)	.226		.281		.204	
Not major city (= 1, if yes)	.559		.493		.585	
Not in Taiwan (= 1, if yes)	.007		.005		.008	
Missing data (= 1, if yes)	.208		.222		.203	

Table 1 continued

Independent Variables	Total (N = 1,439)		Treated Group (N = 406)		Untreated Group (N = 1,033)	
	Mean	SD	Mean	SD	Mean	SD
Birth cohort						
1967 (= 1, if yes)	.023		.015		.026	
1968 (= 1, if yes)	.055		.054		.055	
1969 (= 1, if yes)	.093		.091		.094	
1970 (= 1, if yes)	.099		.076		.107	
1971 (= 1, if yes)	.093		.096		.092	
1972 (= 1, if yes)	.106		.118		.102	
1973 (= 1, if yes)	.113		.108		.114	
1974 (= 1, if yes)	.099		.108		.095	
1975 (= 1, if yes)	.083		.084		.083	
1976 (= 1, if yes)	.113		.126		.108	
1977 (= 1, if yes)	.076		.062		.082	
1978 (= 1, if yes)	.047		.062		.041	

Table 2: Estimated Probit Model for College Attainment (N = 1,439)

Independent Variables	Coefficient	SE	Mean Marginal Effect
Intercept	-1.618*	.345	—
Parental education			
Father's schooling	.072*	.027	.024
Mother's schooling	-.028	.033	-.009
Gender (relative to female)			
Male	.071	.205	.023
Ethnicity (relative to Hokkien)			
Hakka	.261	.339	.090
Mainlander	-.288	.380	-.087
Aborigine	-.574	.529	-.151
Residence prior to age 15 (relative to not in major city)			
Major city	.168	.267	.056
Not in Taiwan	.074	.483	.025
Missing data	.080	.098	.027

* $p < .05$ (two-tailed tests).

Table 2 continued

Independent Variables	Coefficient	SE	Mean Marginal Effect
Birth cohort (relative to 1967)			
1968	.315	.310	.111
1969	.269	.292	.094
1970	.040	.294	.013
1971	.292	.292	.102
1972	.281	.289	.098
1973	.210	.289	.072
1974	.231	.290	.080
1975	.150	.297	.051
1976	.272	.288	.094
1977	.084	.300	.028
1978	.318	.316	.112

* $p < .05$ (two-tailed tests).

Table 2 continued

Independent Variables	Coefficient	SE	Mean Marginal Effect
Two-way interaction terms			
Father's schooling * Mother's schooling	.004	.003	.001
Father's schooling * Gender	.005	.026	.002
* Hakka	-.093*	.041	-.030
* Mainlander	-.048	.033	-.016
* Major city	-.016	.031	-.005
Mother's schooling * Gender	-.004	.027	-.001
* Hakka	.093*	.046	.030
* Mainlander	.130*	.041	.042
* Major city	.040	.034	.013
Gender * Major city	-.386*	.181	-.114
* Hakka	-.303	.226	-.091
* Mainlander	-.202	.243	-.062
Hakka * Major City	.414	.374	.150
Mainlander * Major City	-.244	.267	-.074

* $p < .05$ (two-tailed tests).

Table 3: OLS Regressions Predicting Logged Earnings

Independent Variables	Total	Male	Female
Intercept	10.048*	10.258*	10.088*
	(.044)	(.062)	(.056)
4 year's college attendee	.380*	.324*	.445*
	(.029)	(.044)	(.038)
Mincer experience	.021*	.027*	.013*
	(.004)	(.005)	(.005)
Experience squared	-.006*	-.006*	-.004*
	(.001)	(.001)	(.001)
Male(=1, if yes)	.242*		
	(.023)		
R^2	.169	.086	.186
N	1,439	789	650

* Significant at the level of $\alpha = .05$; Numbers in parentheses are standard errors.

Table 4: Estimated Coefficients Using Local Linear Regression with Gaussian Kernel and Optimal Bandwidth

Independent Variables	High School (γ_0)	College vs. High School ($\gamma_1 - \gamma_0$)
1. Total (N=1,439)		
Mincer experience	.011	-.036
Experience squared	.000	-.016*
	(.002)	(.006)
Male (=1, if yes)	.364*	-.422*
	(.046)	(.137)
2. Male (N=789)		
Mincer experience	.019	-.043
	(.011)	(.040)
Experience squared	-.001	-.014*
	(.003)	(.007)
3. Female (N=650)		
Mincer Experience	-.006	-.011
	(.010)	(.035)
Experience squared	.003	-.018*
	(.002)	(.008)

* Significant at the level of $\alpha = .05$; Numbers in parentheses are standard errors.

Comparisons of Different Treatment Parameters

Parameter	Total (N=1,439)	Male (N=789)	Female (N=650)
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*Significant at the level of $\alpha = .05$; Numbers in parentheses are standard errors.

Comparisons of Different Treatment Parameters

Parameter	Total (N=1,439)	Male (N=789)	Female (N=650)
1. OLS	.380* (.029)	.324* (.044)	.445* (.038)

*Significant at the level of $\alpha = .05$; Numbers in parentheses are standard errors.

Comparisons of Different Treatment Parameters

Parameter	Total (N=1,439)	Male (N=789)	Female (N=650)
1. OLS	.380*	.324*	.445*
	(.029)	(.044)	(.038)
2. IV	.487*	.282*	.602*
	(.092)	(.142)	(.136)

*Significant at the level of $\alpha = .05$; Numbers in parentheses are standard errors.

Comparisons of Different Treatment Parameters

Parameter	Total (N=1,439)	Male (N=789)	Female (N=650)
1. OLS	.380* (.029)	.324* (.044)	.445* (.038)
2. IV	.487* (.092)	.282* (.142)	.602* (.136)
3. ATE	.388* (.180)	.306* (.144)	.602* (.144)

*Significant at the level of $\alpha = .05$; Numbers in parentheses are standard errors.

Comparisons of Different Treatment Parameters

Parameter	Total (N=1,439)	Male (N=789)	Female (N=650)
1. OLS	.380* (.029)	.324* (.044)	.445* (.038)
2. IV	.487* (.092)	.282* (.142)	.602* (.136)
3. ATE	.388* (.180)	.306* (.144)	.602* (.144)
4. TT	.583* (.226)	.309* (.156)	.610* (.167)

*Significant at the level of $\alpha = .05$; Numbers in parentheses are standard errors.

Comparisons of Different Treatment Parameters

Parameter	Total (N=1,439)	Male (N=789)	Female (N=650)
1. OLS	.380* (.029)	.324* (.044)	.445* (.038)
2. IV	.487* (.092)	.282* (.142)	.602* (.136)
3. ATE	.388* (.180)	.306* (.144)	.602* (.144)
4. TT	.583* (.226)	.309* (.156)	.610* (.167)
5. TUT	.304 (.233)	.308 (.162)	.598* (.163)

*Significant at the level of $\alpha = .05$; Numbers in parentheses are standard errors.

Comparisons of Different Treatment Parameters

Parameter	Total (N=1,439)	Male (N=789)	Female (N=650)
1. OLS	.380* (.029)	.324* (.044)	.445* (.038)
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4. TT	.583* (.226)	.309* (.156)	.610* (.167)
5. TUT	.304 (.233)	.308 (.162)	.598* (.163)
6. Bias = OLS - ATE	-.008	.018	-.157

*Significant at the level of $\alpha = .05$; Numbers in parentheses are standard errors.

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Parameter	Total (N=1,439)	Male (N=789)	Female (N=650)
1. OLS	.380*	.324*	.445*
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3. ATE	.388*	.306*	.602*
	(.180)	(.144)	(.144)
4. TT	.583*	.309*	.610*
	(.226)	(.156)	(.167)
5. TUT	.304	.308	.598*
	(.233)	(.162)	(.163)
6. Bias = OLS - ATE	-.008	.018	-.157
7. Selection bias = OLS - TT	-.204	.015	-.165

*Significant at the level of $\alpha = .05$; Numbers in parentheses are standard errors.

Comparisons of Different Treatment Parameters

Parameter	Total (N=1,439)	Male (N=789)	Female (N=650)
1. OLS	.380*	.324*	.445*
	(.029)	(.044)	(.038)
2. IV	.487*	.282*	.602*
	(.092)	(.142)	(.136)
3. ATE	.388*	.306*	.602*
	(.180)	(.144)	(.144)
4. TT	.583*	.309*	.610*
	(.226)	(.156)	(.167)
5. TUT	.304	.308	.598*
	(.233)	(.162)	(.163)
6. Bias = OLS - ATE	-.008	.018	-.157
7. Selection bias = OLS - TT	-.204	.015	-.165
8. Sorting gain = TT - ATE	.196	.003	.008

*Significant at the level of $\alpha = .05$; Numbers in parentheses are standard errors.