

**“THE EDUCATION-HEALTH GRADIENT”**

**ADDITIONAL RESULTS**

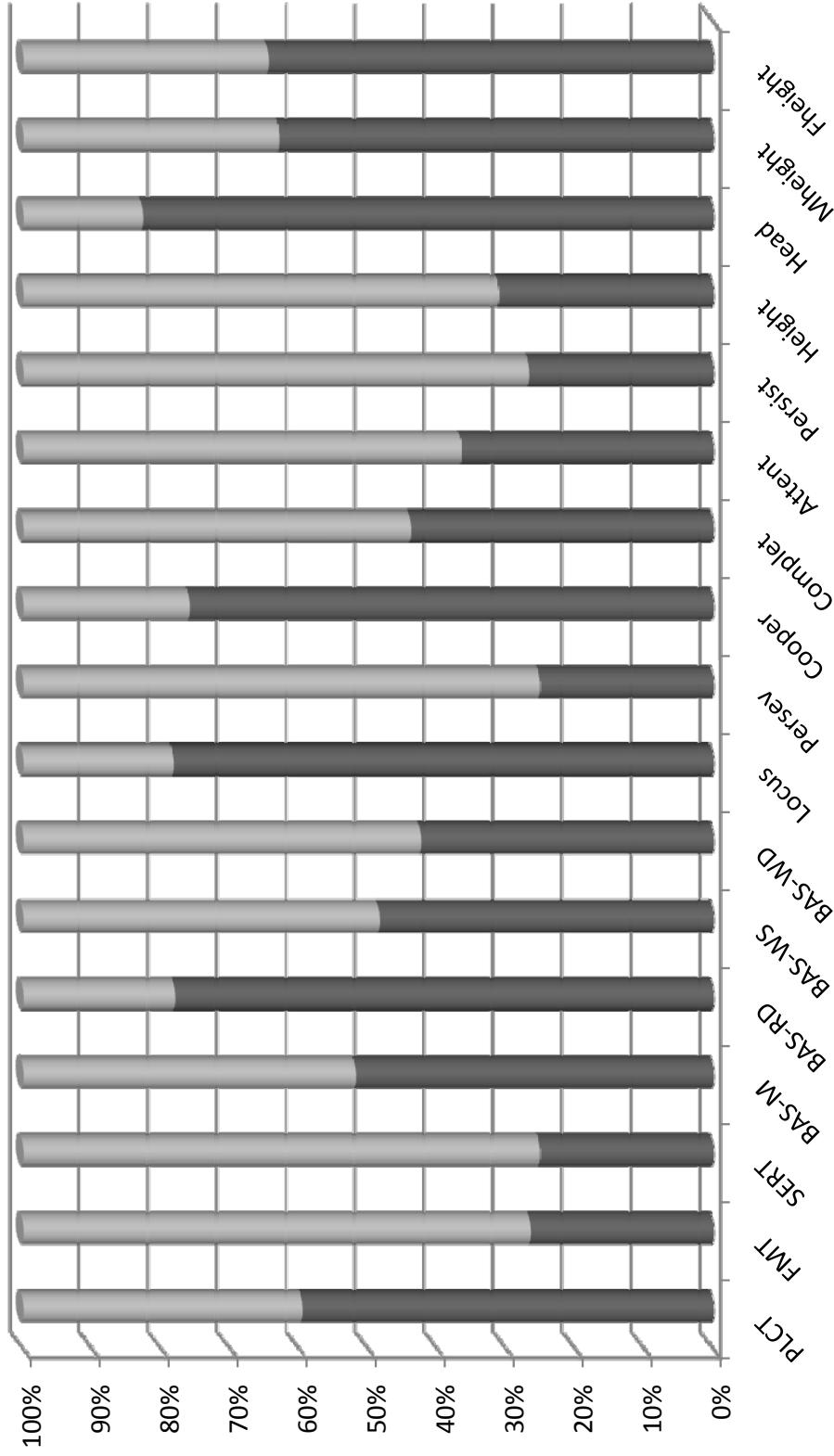
Gabriella Conti  
University of Chicago

James J. Heckman  
University of Chicago  
and University College Dublin

Sergio Urzúa  
Northwestern University  
and IZA

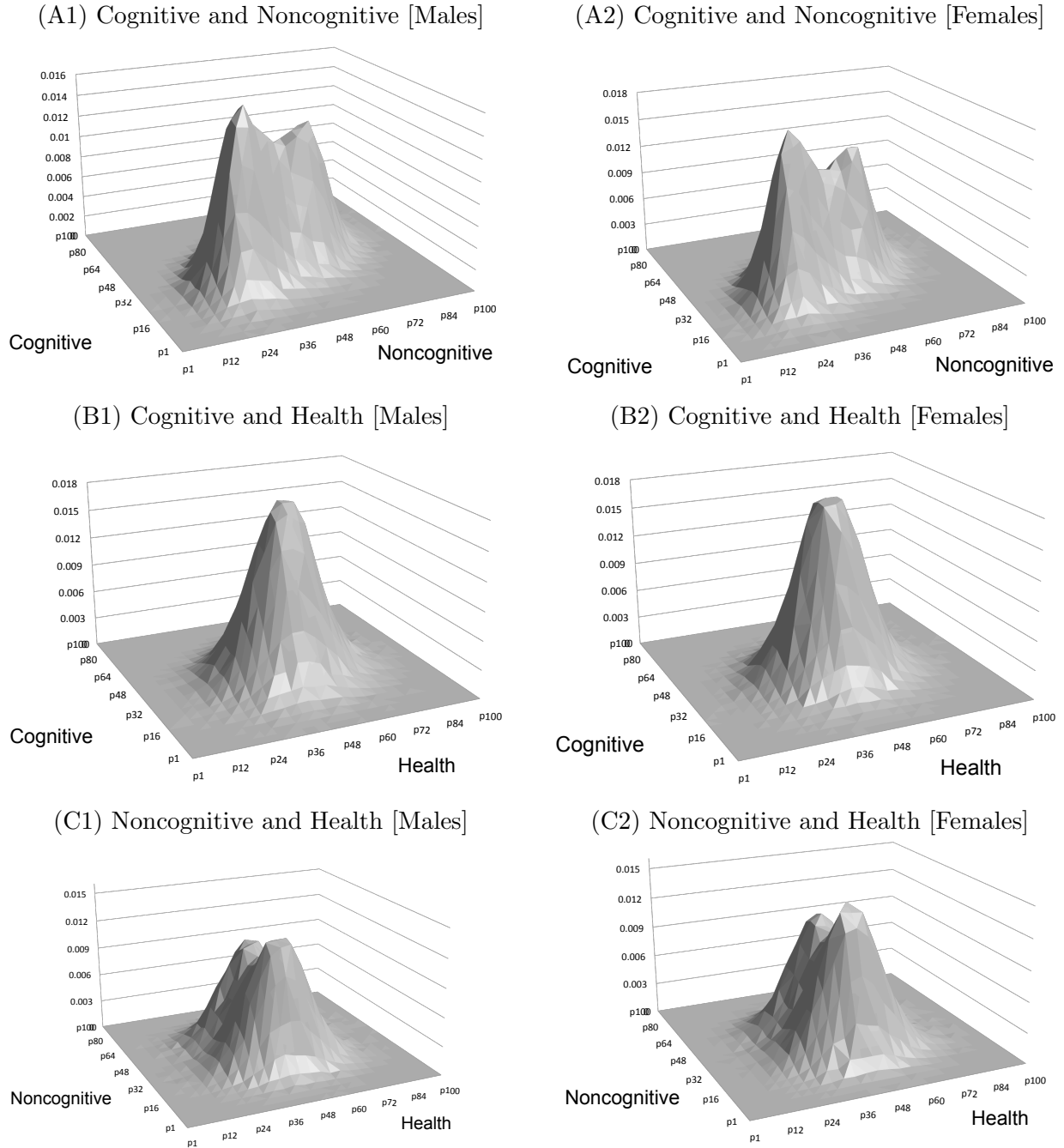
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**Figure 1:** Share of Measurement Variance Explained by Uniqueness



Note: The darker region represents the share of the variance for each measurement which is explained by uniqueness. PLCT: Pictorial Language Comprehension Test; FMT: Friendly Math Test; SERT: Shortened Edinburgh Reading Test; BAS-M: British Ability Scales, Matrices; BAS-RD: British Ability Scales, Recall Digits; BAS-WS: British Ability Scales, Word Similarities; BAS-WD: British Ability Scales, Word Definition; Locus: Locus of control scale; Persev: perseverance scale; Cooper: cooperativeness scale; Complet: completeness scale; Attent: attentiveness scale; Persist: persistence scale; Height: child's height; Head: head circumference; Mheight: mother's height; Fheight: father's height.

**Figure 2: Joint Distributions of the Endowments**



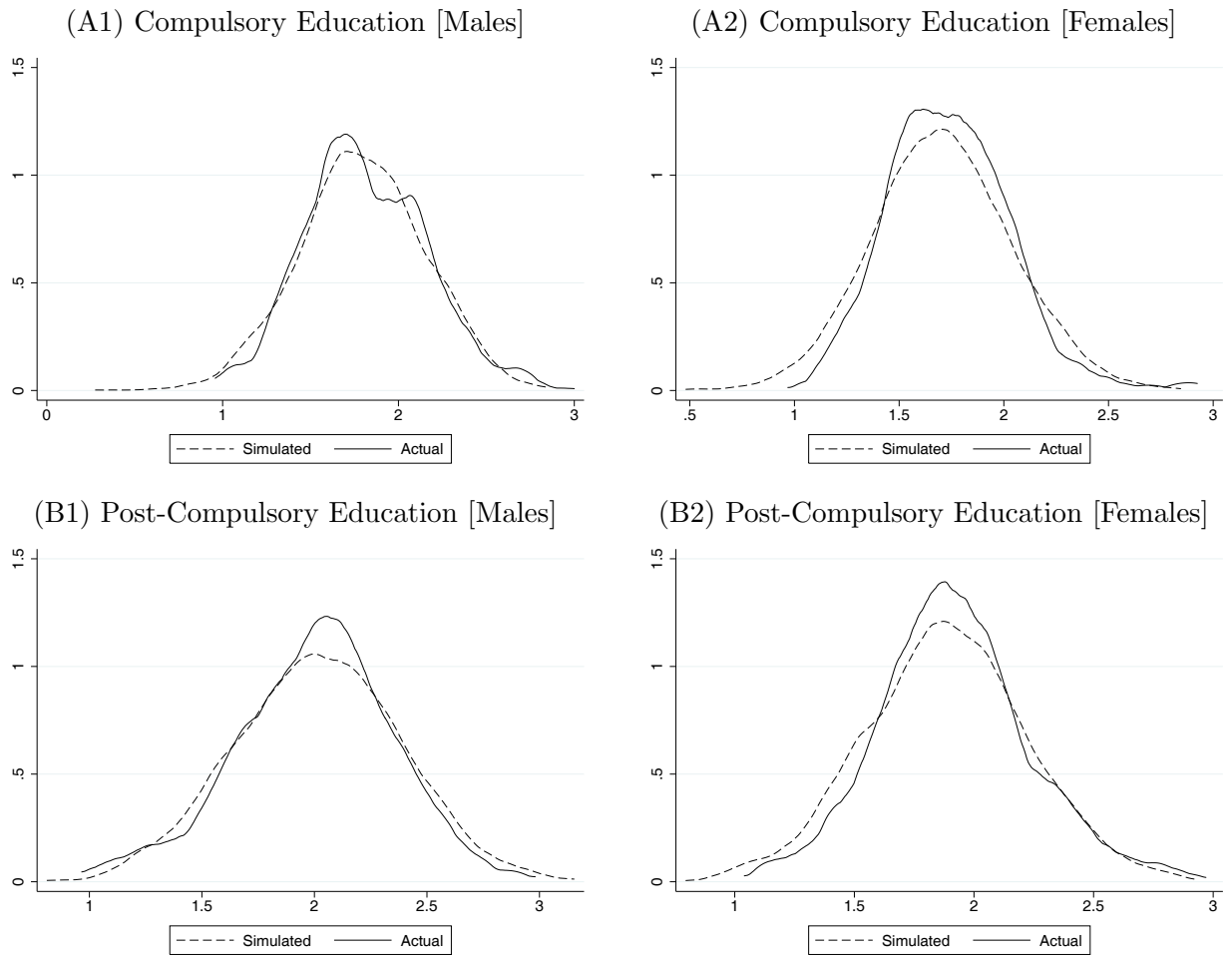
Note: The figures show the joint distributions of cognitive, noncognitive and health endowments. They are generated using simulated data from our model. The estimated correlations between cognitive and noncognitive is 0.547, between cognitive and health 0.154, and between noncognitive and health is 0.060 for males, and 0.547, 0.153, and 0.054 respectively, for females. Finally, for each endowment, the mean is standardized to be zero.

**Table 1:** Goodness of Fit

	Males			Females		
	Actual	Simulated	Goodness of Fit	Actual	Simulated	Goodness of Fit
Education	0.40	0.39	0.391	0.50	0.49	0.208
	<i>A. Healthy Behaviors</i>					
Ever Cannabis [C]	0.57	0.58	0.771	0.40	0.39	0.259
Ever Cannabis [PC]	0.64	0.63	0.657	0.44	0.45	0.404
Regular Exercise [C]	0.77	0.76	0.271	0.75	0.74	0.321
Regular Exercise [PC]	0.86	0.87	0.454	0.81	0.82	0.268
Daily Smoking [C]	0.38	0.38	0.468	0.37	0.37	0.569
Daily Smoking [PC]	0.19	0.21	0.194	0.17	0.17	0.728
	<i>B. Health Status</i>					
Depression [C]	0.17	0.18	0.232	0.23	0.24	0.260
Depression [PC]	0.10	0.10	0.826	0.14	0.13	0.161
Poor Health [C]	0.17	0.18	0.142	0.18	0.18	0.469
Poor Health [PC]	0.11	0.10	0.517	0.10	0.10	0.321
Obesity [C]	0.13	0.12	0.480	0.35	0.36	0.593
Obesity [PC]	0.09	0.09	0.917	0.29	0.29	0.819
	<i>C. Labor Market Outcomes</i>					
FT Employment [C]	0.76	0.76	0.820	0.39	0.38	0.280
FT Employment [PC]	0.87	0.87	0.674	0.59	0.58	0.561

Note: The simulated data are generated from the model's estimates and contains the same number of observations as the actual data. Goodness of fit is tested using a  $\chi^2$  test where the Null Hypothesis is *Simulated=Actual* (*p*-values are reported). FT=full-time. C=compulsory; PC=post-compulsory.

**Figure 3: Goodness of Fit - Wages**



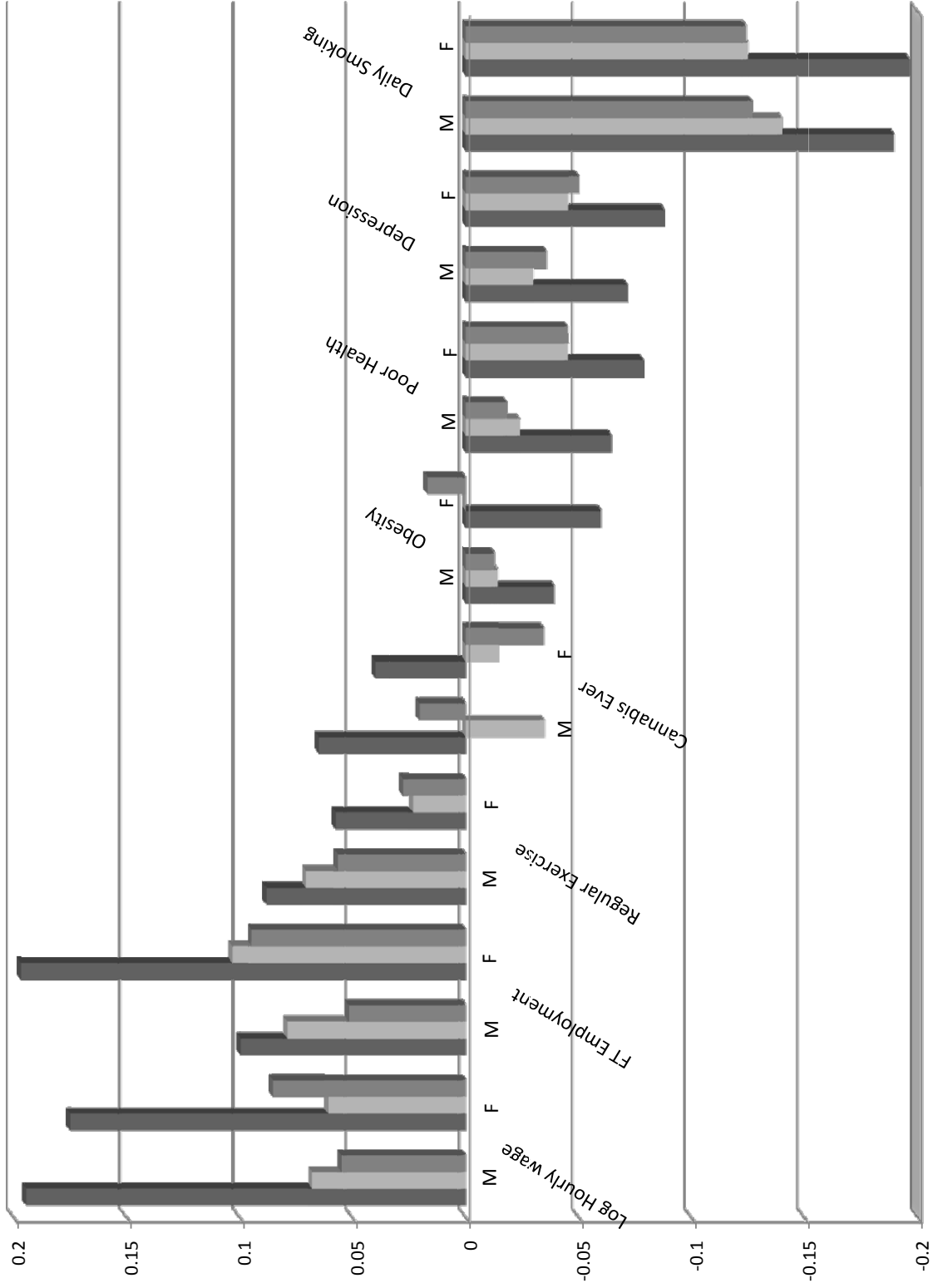
Note: The simulated data are generated from the model's estimates and contains the same number of observations as the actual data.

**Table 2:** Marginal Effects of Endowments on Outcomes, by Educational Level

	Males			Females		
	Cognitive	Noncognitive	Health	Cognitive	Noncognitive	Health
Education	0.205 (2.446)	0.045 (2.030)	-0.002 (-0.070)	0.195 (3.732)	0.028 (1.778)	0.047 (1.744)
<i>A. Healthy Behaviors</i>						
Ever Cannabis [C]	0.202 (5.296)	-0.088 (-3.975)	-0.082 (-2.011)	0.200 (5.441)	-0.090 (-3.825)	0.017 (0.469)
Ever Cannabis [PC]	0.168 (4.171)	-0.059 (-2.301)	-0.003 (-0.068)	0.211 (5.050)	-0.105 (-3.878)	0.083 (2.049)
Regular Exercise [C]	0.003 (0.134)	0.024 (1.432)	0.029 (0.934)	0.049 (1.850)	-0.011 (-0.614)	0.017 (0.568)
Regular Exercise [PC]	-0.030 (-1.062)	0.014 (0.704)	0.088 (2.004)	0.017 (0.632)	0.013 (0.664)	0.045 (1.258)
Daily Smoking [C]	0.062 (2.133)	-0.108 (-4.947)	-0.116 (-2.722)	0.017 (0.580)	-0.074 (-3.370)	-0.046 (-1.215)
Daily Smoking [PC]	-0.009 (-0.276)	-0.051 (-1.956)	-0.107 (-2.161)	-0.007 (-0.266)	-0.054 (-2.119)	0.005 (0.141)
<i>B. Health Status</i>						
Depression [C]	0.021 (0.910)	-0.061 (-2.542)	-0.065 (-1.832)	-0.086 (-2.551)	-0.019 (-1.062)	-0.045 (-1.331)
Depression [PC]	-0.004 (-0.129)	-0.031 (-1.270)	-0.075 (-1.582)	-0.006 (-0.240)	-0.033 (-1.689)	-0.008 (0.269)
Poor Health [C]	0.017 (0.794)	-0.062 (-2.735)	-0.076 (-1.992)	-0.052 (-1.957)	-0.035 (-1.795)	-0.019 (-0.690)
Poor Health [PC]	-0.037 (-1.221)	0.001 (0.062)	-0.076 (-1.599)	-0.017 (-0.700)	-0.025 (-1.254)	-0.038 (-1.142)
Obesity [C]	0.014 (0.688)	-0.026 (-1.515)	-0.108 (-2.195)	-0.012 (-0.407)	-0.028 (-1.334)	-0.210 (-4.000)
Obesity [PC]	-0.007 (-0.251)	0.007 (0.330)	-0.103 (-1.615)	0.039 (1.160)	-0.037 (-1.491)	-0.268 (-3.741)
<i>C. Labor Market Outcomes</i>						
FT Employment [C]	0.018 (0.753)	0.032 (1.860)	0.037 (1.170)	0.090 (2.999)	0.046 (2.164)	0.012 (0.333)
FT Employment [PC]	0.058 (1.751)	0.010 (0.486)	-0.027 (-0.750)	0.114 (3.401)	0.005 (0.214)	0.053 (1.415)
Log Hourly Wages [C]	0.135 (5.870)	0.021 (1.400)	0.090 (3.100)	0.166 (5.187)	0.019 (0.864)	0.030 (0.857)
Log Hourly Wages [PC]	0.138 (4.759)	0.010 (0.526)	0.033 (0.943)	0.126 (4.500)	0.039 (1.950)	0.096 (3.200)

Note: Numbers in parentheses are  $t$ -statistics. FT=full-time. C=compulsory; PC=post-compulsory.

**Figure 4:** Structural Matching and Propensity Score Matching Results



Note: The left bar displays the difference in outcomes by educational level; the central bar displays the average treatment effect of education obtained from our structural model; the right bar displays the same parameter obtained using propensity score matching. M=males; F=females.