

Nishan Ghimire: Master's Research Project (MRP) Results

January 16, 2026

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Table 1: US Regression Results for 1979-2021

	<i>Dependent variable:</i>
	LHS of the equation
LN of Primary Income Shares	0.353*** (0.056)
Constant	−1.055*** (0.085)
Observations	201
R ²	0.315
Adjusted R ²	0.312
Residual Std. Error	0.424 (df = 199)
F Statistic	91.581*** (df = 1; 199)

Note: *p<0.1; **p<0.05; ***p<0.01

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Table 2: US Regression Results 1979-1999 and 2000-2021

	<i>Dependent variable:</i>	
	LHS of the equation	
	(1)	(2)
LN of Primary Income Shares	0.330*** (0.048)	0.393*** (0.114)
Constant	−1.043*** (0.078)	−1.042*** (0.167)
Observations	105	96
R ²	0.444	0.267
Adjusted R ²	0.439	0.259
Residual Std. Error	0.309 (df = 103)	0.517 (df = 94)
F Statistic	82.254*** (df = 1; 103)	34.215*** (df = 1; 94)

Note: *p<0.1; **p<0.05; ***p<0.01

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Table 3: Canada Regression Results 1992-2022 (Using Federal Income Taxes)

<i>Dependent variable:</i>	
LHS of the equation	
LN of Primary Income Shares	1.130*** (0.039)
Constant	-0.832*** (0.076)
Observations	155
R ²	0.889
Adjusted R ²	0.888
Residual Std. Error	0.364 (df = 153)
F Statistic	1,226.365*** (df = 1; 153)

Note: *p<0.1; **p<0.05; ***p<0.01

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Table 4: Canada Regression Results 1992-2006 and 2007-2022 (Using Federal Income Taxes)

<i>Dependent variable:</i>		
LHS of the equation		
	(1)	(2)
LN of Primary Income Shares	1.061*** (0.048)	1.190*** (0.053)
Constant	-0.839*** (0.099)	-0.835*** (0.106)
Observations	75	80
R ²	0.905	0.903
Adjusted R ²	0.904	0.902
Residual Std. Error	0.312 (df = 73)	0.361 (df = 78)
F Statistic	697.237*** (df = 1; 73)	726.939*** (df = 1; 78)

Note: *p<0.1; **p<0.05; ***p<0.01

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Table 5: Canada Regression Results 1992-2022 (Using Federal and Provincial Income Taxes)

	<i>Dependent variable:</i>
	LHS of the equation
LN of Primary Income Shares	1.176*** (0.043)
Constant	−0.268*** (0.084)
Observations	155
R ²	0.878
Adjusted R ²	0.878
Residual Std. Error	0.399 (df = 153)
F Statistic	1,106.082*** (df = 1; 153)

Note: *p<0.1; **p<0.05; ***p<0.01

Table 6: Canada Regression Results 1992-2006 and 2007-2022 (Using Federal and Provincial Income Taxes)

	<i>Dependent variable:</i>	
	LHS of the equation	
	(1)	(2)
LN of Primary Income Shares	1.121*** (0.054)	1.223*** (0.061)
Constant	−0.271** (0.111)	−0.272** (0.121)
Observations	75	80
R ²	0.893	0.882
Adjusted R ²	0.892	0.881
Residual Std. Error	0.352 (df = 73)	0.413 (df = 78)
F Statistic	610.799*** (df = 1; 73)	585.268*** (df = 1; 78)

Note: *p<0.1; **p<0.05; ***p<0.01

Table 7: Estimated Parameters: η and ϕ

Model	η	ϕ
US: Total Federal Taxes (1979-2021)	0.348	0.353
US: Total Federal Taxes (1979-1999)	0.352	0.330
US: Total Federal Taxes (2000-2021)	0.353	0.393
Canada: Federal Income Taxes (1992-2022)	0.435	1.130
Canada: Federal Income Taxes (1992-2006)	0.432	1.061
Canada: Federal Income Taxes (2007-2022)	0.434	1.190
Canada: Federal and Provincial Income Taxes (1992-2022)	0.765	1.176
Canada: Federal and Provincial Income Taxes (1992-2006)	0.763	1.121
Canada: Federal and Provincial Income Taxes (2007-2022)	0.762	1.223

Table 8: Canada Results OECD, 2000-2020, 2000-2010, 2010-2020

	<i>Dependent variable:</i>		
	LHS of the equation		
	(1)	(2)	(3)
LN of Primary Income Shares	0.768*** (0.034)	0.732*** (0.042)	0.812*** (0.057)
Constant	-0.475*** (0.041)	-0.514*** (0.053)	-0.428*** (0.068)
Observations	63	33	30
R ²	0.846	0.854	0.845
Adjusted R ²	0.844	0.849	0.840
Residual Std. Error	0.155 (df = 61)	0.148 (df = 31)	0.164 (df = 28)
F Statistic	335.870*** (df = 1; 61)	180.968*** (df = 1; 31)	152.848*** (df = 1; 28)

Note:

*p<0.1; **p<0.05; ***p<0.01

Table 9: Kakwani and RS Index by Year for US 1979-2021

year	Kakwani_Index	RS_Index
1979	0.1093636	0.0554789
1980	0.1094902	0.0577160
1981	0.1006971	0.0566253
1982	0.0948898	0.0524517
1983	0.0871388	0.0520281
1984	0.0803818	0.0471224
1985	0.0784353	0.0480964
1986	0.0753259	0.0469917
1987	0.0968687	0.0551106
1988	0.0922704	0.0537778
1989	0.0937876	0.0547535
1990	0.0907330	0.0564594
1991	0.0980189	0.0618052
1992	0.1011920	0.0665542
1993	0.1083991	0.0722484
1994	0.1174401	0.0750161
1995	0.1211577	0.0746477
1996	0.1212031	0.0738538
1997	0.1199058	0.0702765
1998	0.1241194	0.0696832
1999	0.1226840	0.0691754
2000	0.1214576	0.0690440
2001	0.1339217	0.0720315
2002	0.1396010	0.0747138
2003	0.1380711	0.0744556
2004	0.1353942	0.0744721
2005	0.1324665	0.0736105
2006	0.1314004	0.0724336
2007	0.1294266	0.0684193

year	Kakwani_Index	RS_Index
2008	0.1682505	0.0764050
2009	0.1798115	0.0839610
2010	0.1741729	0.0863397
2011	0.1695469	0.0858732
2012	0.1627941	0.0857201
2013	0.1591307	0.0906759
2014	0.1554240	0.0933160
2015	0.1572951	0.0942295
2016	0.1573125	0.0938409
2017	0.1553941	0.0912954
2018	0.1623163	0.0894048
2019	0.1580256	0.0867420
2020	0.2680044	0.1155560
2021	0.2751389	0.1161366

Table 10: Kakwani and RS Index by Year for Canada (Using Federal Income Tax) 1992-2022

year	Kakwani_Index	RS_Index
1992	0.1584309	0.0202219
1993	0.1572356	0.0193760
1994	0.1293569	0.0147422
1995	0.1636931	0.0211514
1996	0.1629845	0.0214710
1997	0.1614089	0.0220118
1998	0.1635904	0.0226298
1999	0.1633842	0.0224512
2000	0.1580992	0.0216557
2001	0.1581638	0.0196617
2002	0.1597651	0.0197452
2003	0.1584414	0.0195948
2004	0.1565254	0.0191281
2005	0.1623435	0.0192141
2006	0.1638252	0.0195033
2007	0.1731403	0.0196937
2008	0.1746279	0.0201365
2009	0.1856527	0.0196118
2010	0.1817205	0.0195479
2011	0.1804834	0.0197479
2012	0.1815457	0.0199008
2013	0.1800145	0.0197972
2014	0.1771860	0.0194732
2015	0.1761276	0.0199287
2016	0.1784343	0.0193401
2017	0.1759291	0.0194352
2018	0.1749323	0.0196173
2019	0.1751714	0.0195795
2020	0.1809776	0.0196262
2021	0.1718955	0.0193336
2022	0.1766031	0.0200252

Table 11: Kakwani and RS Index by Year for Canada (Using Federal and Provincial Income Tax) 1992-2022

year	Kakwani_Index	RS_Index
1992	0.1582759	0.0357197
1993	0.1571053	0.0351355
1994	0.1312212	0.0270198
1995	0.1651233	0.0389777
1996	0.1642393	0.0393856
1997	0.1615853	0.0397653
1998	0.1622001	0.0396541
1999	0.1603000	0.0386661
2000	0.1588653	0.0378953
2001	0.1613952	0.0346562
2002	0.1638902	0.0344182
2003	0.1628360	0.0341882
2004	0.1595412	0.0335873
2005	0.1602339	0.0334246
2006	0.1599962	0.0335112
2007	0.1651294	0.0335282
2008	0.1686631	0.0341738
2009	0.1773250	0.0335354
2010	0.1754270	0.0332860
2011	0.1730756	0.0334398
2012	0.1731256	0.0336278
2013	0.1730906	0.0337366
2014	0.1704382	0.0334650
2015	0.1703061	0.0343584
2016	0.1731778	0.0335828
2017	0.1725382	0.0337342
2018	0.1723414	0.0342922
2019	0.1735991	0.0343457
2020	0.1756718	0.0343020
2021	0.1672120	0.0339894
2022	0.1730448	0.0355527