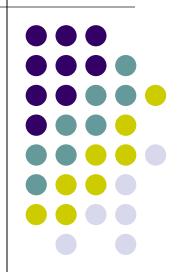
Changes in income inequality in China in the past three decades

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Two topics:

 1. Some features of changes in income inequality in China.

2. How to explain rising income inequalities?

1. Some features of Changes in income inequality in China



Increasing inequality in all the aspects

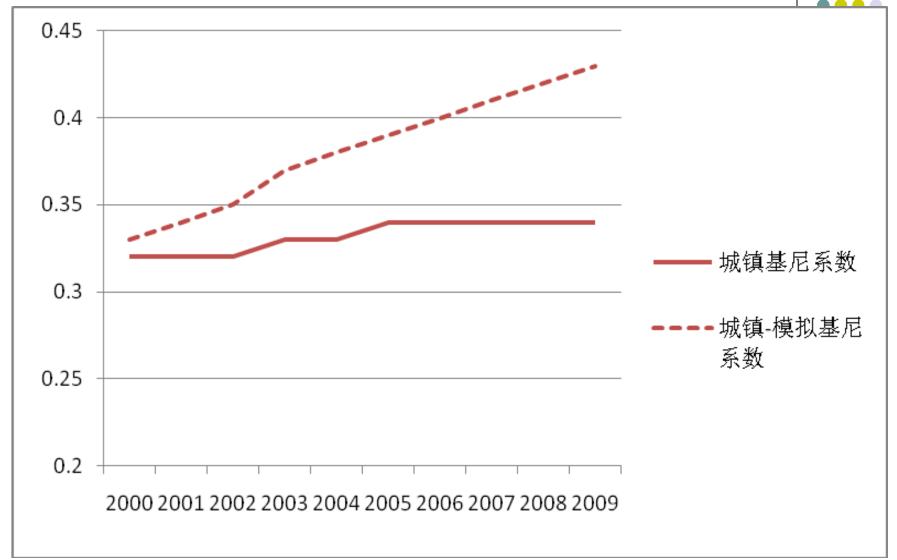
1. Urban areas:

- Gini 0.15 (1981) 0.36(2007)



Simulated urban Gini





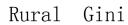


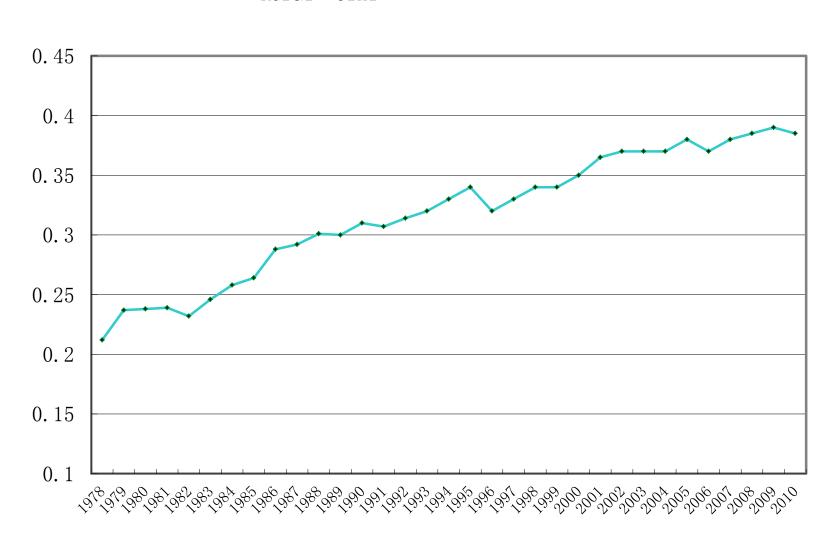
2. Rural areas:

• Gini 0.23 (1978) — 0.38 (2007)

Dt/Db 8.6 (1988) — 11.2 (2002)









• 3. Entire China

• Gini 0.38 (1988) ——0.48 (2007)

Dt/Db 7.3 (1988) ——— 23.3 (2007)

Changes in Gini coefficients in China as a whole, 1986-2007





Table 1: National mean income and inequality, 2002 and 2007

					% ch	nange,		
					2002 to 20	07, constant		
	2002		20	007	2002 prices			
	Excluding	Including	Excluding	Including	Excluding	Including		
	migrants	migrants	migrants	migrants	migrants	migrants		
NBS income, two-level weights								
Mean income	4426	4479	8653	8899	71.65	74.44		
Gini	0.452	0.450	0.474	0.473	4.9%	5.1%		
GE(0)/MLD	0.359	0.357	0.403	0.403	12.3%	12.9%		
GE(1)	0.351	0.348	0.385	0.381	9.7%	9.5%		
	NBS income, three-level weights							
Mean income	4467	4530	8932	9165	75.55	77.63		
Gini	0.456	0.455	0.481	0.478	5.5%	5.1%		
GE(0)/MLD	0.362	0.361	0.414	0.413	14.4%	14.4%		
GE(1)	0.360	0.356	0.398	0.392	10.6%	10.1%		
		CHIP inco	me, two-lev	el weights				
Mean income	4921	4964	10210	10413	82.16	84.17		
Gini	0.462	0.460	0.489	0.485	5.8%	5.4%		
GE(0)/MLD	0.373	0.371	0.432	0.427	15.8%	15.1%		
GE(1)	0.366	0.362	0.411	0.404	12.3%	11.6%		
CHIP income, three-level weights								
Mean income	4966	5019	10584	10772	87.12	88.43		
Gini	0.466	0.464	0.497	0.492	6.7%	6.0%		
GE(0)/MLD	0.378	0.375	0.445	0.439	17.7%	17.1%		
GE(1)	0.376	0.371	0.425	0.425 0.416		12.1%		

Table 3: Inequality estimates without and with PPP adjustment, 2002 and 2007

	2002		200)7	% change, 2002 to 2007			
	Without With Without With PPP PPP PPP			Without PPP	With PPP			
NBS income								
Gini	0.455	0.389	0.478	0.421	5.1%	8.2%		
GE(0)/MLD	0.361	0.265	0.413	0.315	14.4%	18.9%		
GE(1)	0.356	0.258	0.392	0.302	10.1%	17.1%		
CHIP income								
Gini	0.464	0.395	0.492	0.433	6.0%	9.6%		
GE(0)/MLD	0.375	0.271	0.439	0.333	17.1%	22.9%		
GE(1)	0.371	0.264	0.416	0.320	12.1%	21.2%		

Table 8: Urban inequality with and without migrants, 2002 and 2007

	20	02	2007		
	Without	With	Without	With	
Gini	0.327	0.329	0.337	0.334	
GE(0)/MLD	0.179	0.182	0.190	0.187	
GE(1)	0.182	0.184	0.197	0.194	

2. How to explain rising income inequalities?



 (1) Significant differences between urban and rural areas.

- (2) Uncompleted market reform: regional immobility and monopoly.
- (3) Rising returns to education.
- (4) Corruption

(1) Significant differences between urban and rural areas



 Significant differences between urban and rural areas in terms of income, social security, public services, reflecting government policies and political institutions discriminating against rural people.

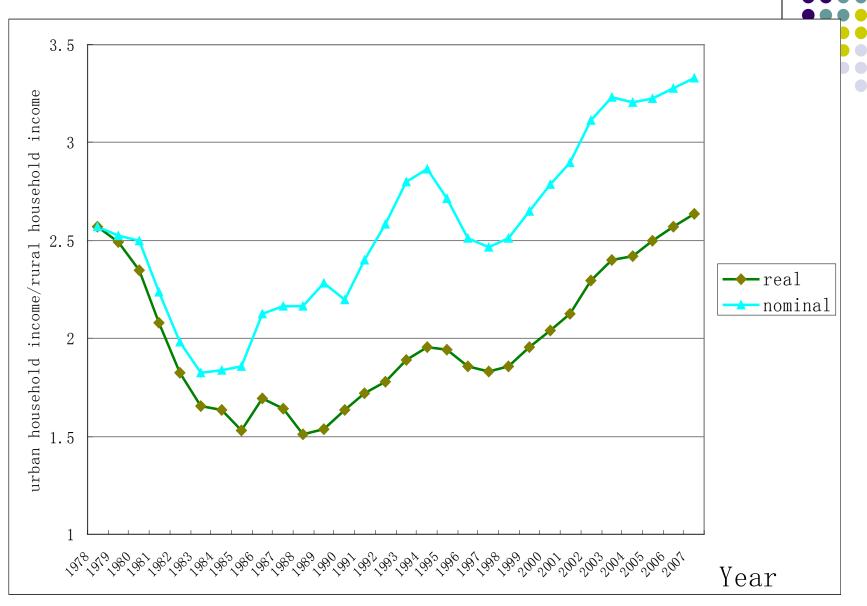
Income gap between rural and urban households



 1 Income ratio of urban and rural households

 2 Importance of urban-rural income gap in total inequality in China

Income ratio of urban and rural households





 Theil decomposition: Share of urban-rural inequality increased from 38% in 1995 to 43% in 2002, in national inequality.

 Decomposition based on regression analysis: 37% of national inequality is due to urbanrural inequality.

Importance of urban-rural income gap total inequality in China



Theil decomposition: :

1988: 37%,

1995: 41%,

2002: 46%,

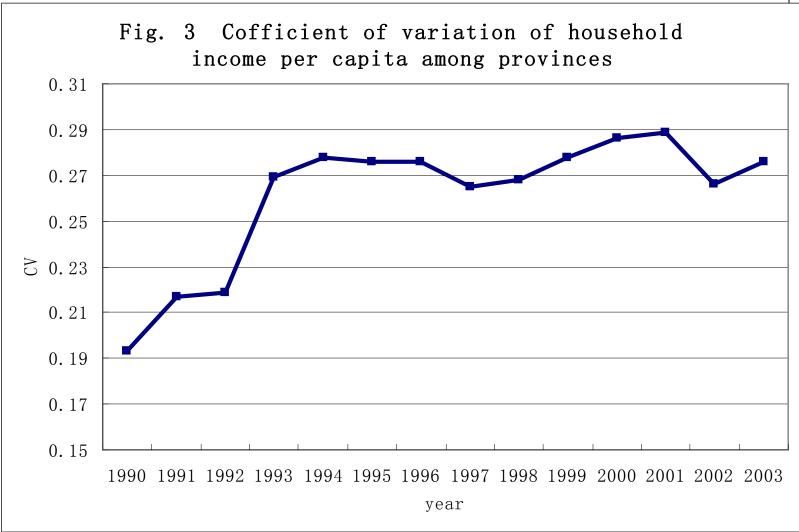
2007: 51%。

Decomposition based on regression analysis:

2002: 37%.

(2) Uncompleted market reform: regional disparity







 Decomposition based on regression analysis: Provincial dummies explain 10-12 percentage points for urban China in 2002.

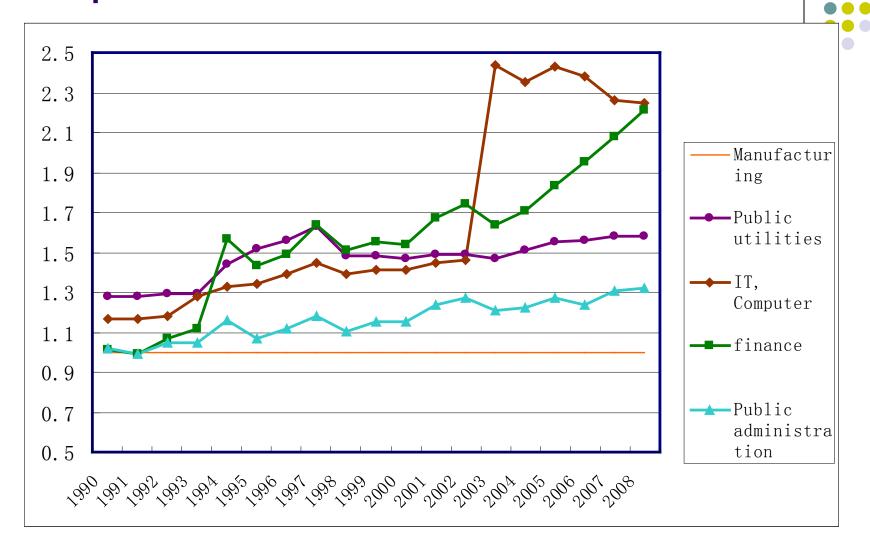
Table 11: Regional income gaps, 2002 and 2007

PPP unadjusted									
		2002				2007			
	migra				migra				
Region	urban	rural	nt	all	urban	rural	nt	all	
Big									
cities	2.10	2.68	1.39	3.74	2.07	3.33	1.39	3.54	
East	1.40	1.98	1.36	1.88	1.62	1.82	1.23	2.02	
Center	0.92	1.22	0.88	1.10	1.05	1.21	0.85	1.17	
West	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
	PPP adjusted								
		2002				2007			
	migra				migra				
Region	urban	rural	nt	all	urban	rural	nt	all	
Big								_	
cities	1.42	1.70	0.95	2.34	1.54	2.23	1.04	2.44	
East	1.14	1.99	1.02	1.65	1.39	1.77	1.00	1.74	
Center	0.90	1.29	0.87	1.12	1.04	1.21	0.84	1.16	
West	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	

Table 13: Gini coefficients by region, 2002 and 2007

PPP unadjusted							
	2002	2007					
Big							
cities	0.314	0.320					
East	0.426	0.465					
Center	0.404	0.443					
West	0.462	0.485					
	PPP adjusted						
	2002	2007					
Big							
cities	0.304	0.312					
East	0.357	0.412					
Center	0.352	0.396					
West	0.428	0.444					

Wage differentials between monopolistic and competitive sectors





- 3.Oxacca decomposition analysis:
- 1995: Monopoly/competitive sector: total difference: 10%, segmentation: 9%
- 2002: Monopoly/competitive sector: total difference: 48%, segmentation: 59%

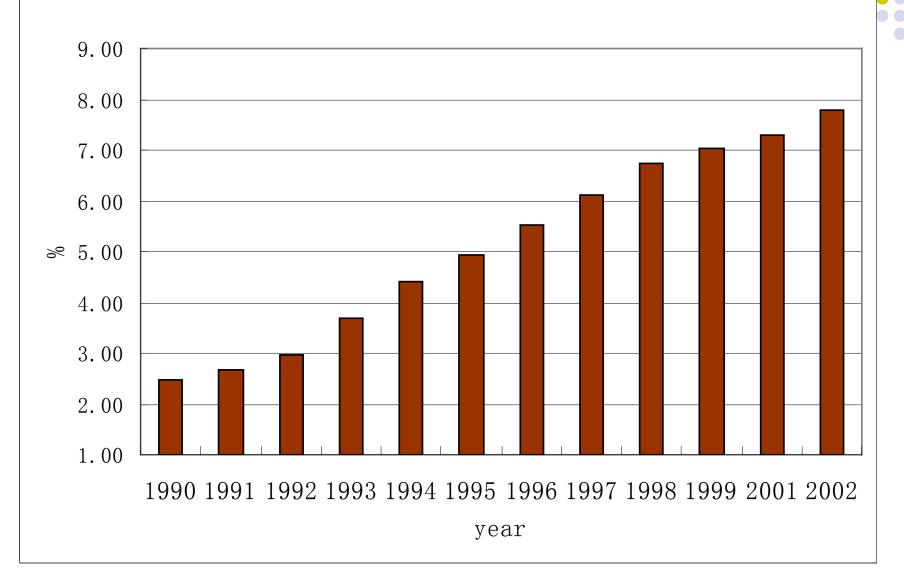
(3) Education plays more important role in income determination

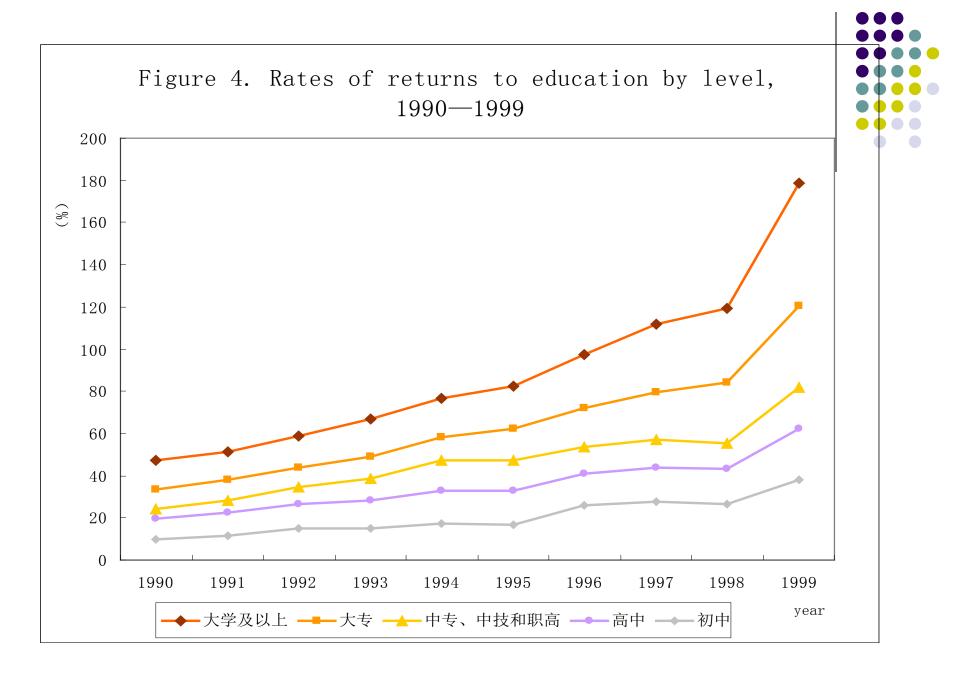


1. Significant rise in returns to education

 2 Decomposition based on regression analysis: education explain 3.8% in 1988, 6.7% in 1995 and 15.6% in 2002, of the inequality in urban China.

Fig 4 Rate of private returns to education in urban China (%)





(4) Corruption and income inequality



• ?????????

Introduction to CHIP data



- Four national household surveys conducted in
- 1988, 1995, 2002, 2007-2010

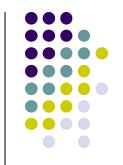
CHIPs sample size

	1988		1995		2002		2007-2010	
	rural	urban	rural	urban	rural	urban	rural	urban
Households	10258	9009	7998	6931	9200	6835	8000	10000
Individuals	51352	31827	34739	21694	37969	20632	33678	28000
Provinces	28	10	19	11	22	12	8	8
Cities/counti es	126	60	110	66	120	56	80	18

 The Distribution of income in China /edited by Keith B Griffin, Renwei Zhao (1993) Palgrave Macmillan Publishing



- China's retreat from equality. Income distribution and economic transition.
- Carl Riskin, Zhao Renwei et Li Shi eds., New York et Londres, M.E. Sharpe, 2001
- Inequality and public policy in China / edited by Björn A. Gustafsson, Li Shi, Terry Sicular (2008)
- Cambridge University Press, Cambridge.
- Rising income inequality in China / edited by Li Shi, Hiroshi Sato, Terry Sicular (2013)
- Cambridge University Press, Cambridge.



Thanks