

# **Academic Productivity and Congeniality in State and Market Driven Systems of Mass Higher Education**

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**Changing Conditions and Changing Approaches of Academic Work  
Berlin, Germany, June 5, 2012**

# Higher Education System

Country	Mass higher education	Model
CHINA	Emergent	State driven
USA	Mature	Market driven

# China

- Ascending research productivity
- Resistance to market driven personnel reforms
- IRB residue, FT'ers dominant, rising salaries

# USA

- Plateau-ing research productivity
- Market driven personnel system
- Significant trends toward adjunct faculty

# Hong Kong system

- State funded but market driven
- Ascending levels of research productivity
- Little resistance to performance driven personnel reforms

# Research productivity (D4)

- Books authored
- Books edited
- Articles in journals/books
- Funded research report
- Conference papers
- Newspaper/mag. articles
- Patents on inventions
- Computer programs
- Artistic works
- Videos or films
- Other

# Congeniality

- Career perspective (B5[4])
- Commitment to the profession (D5[5])
- Job strain (D5[6])
- Job Satisfaction (B6)
- Working conditions (B7)
- Restrictions (D6[1&2])
- Academic freedom (E5)
- Organizational culture E4 (2,4,6)

# China data

- Paper survey questionnaire
- Sampled 60 scholars in 70 institutions
  - 10 under central & 60 under local
- About 4200 faculty members
- About 85% response rate



# USA data

- 5, 065 e-mail surveys
- 1,048 completed
- 20.7% response rate

# Hong Kong SAR

- All 11 degree granting institutions
  - 7 + are research universities
- 811 completed surveys
- 13% response rate

# Results (self-reported productivity)

- China academics report higher levels than USA
  - Except conference paper + artistic works
- HK academics report higher levels than both
  - on Articles, research reports, conference papers & newspaper/magazine articles

# Results - congeniality

- US academics report higher levels than China
- HK academics fall between China&US on all
  - except
    - good communication between management and academics
    - cumbersome administrative process
    - Support for academic freedom

# Significant results

## Congeniality > Productivity

- China
  - job satisfaction (positive)
  - Increased restrictions on publication of results from publically funded projects (negative)
- USA
  - Poor time for a young academic to begin a career (Negative)
- Hong Kong
  - Job satisfaction (positive)
  - Collegiality (negative)
  - Poor time for a young academic (negative)
  - Increased restrictions on publication of results from publically funded projects (negative)

# Congeniality > Productivity

- **job satisfaction**
  - (positive) CHINA&US
- **Increased restrictions on publication of results from publically funded projects**
  - (negative) CHINA&HK
- **Poor time for young academic to begin career**
  - (Negative) HK&US
- **Collegiality**
  - (negative) HK

Table 1: Self-Reported Research Productivity (Hong Kong, Mainland China, & the United States)

	Country	N	Mean	S.D.	F	df
Scholarly books you authored or co-authored	China	1826	.85 <sup>HH</sup>	2.08	52.98***	2,3542
	Hong Kong	676	<b>.48<sup>H</sup></b>	1.01		
	U.S.	1043	.23	.56		
Scholarly books you edited or co-edited	China	1826	.84 <sup>HH</sup>	1.82	62.60***	2,3542
	Hong Kong	676	<b>.44<sup>H</sup></b>	.85		
	U.S.	1043	.23	.92		
Articles published in an academic book or journal	China	1826	8.54 <sup>H</sup>	10.15	78.12***	2,3542
	Hong Kong	676	<b>9.55<sup>H</sup></b>	12.55		
	U.S.	1043	4.30	7.38		
Research report/monograph written for a funded project	China	1826	1.43	4.23	2.32	2,3542
	Hong Kong	676	<b>1.61</b>	3.00		
	U.S.	1043	1.21	3.69		
Paper presented at a scholarly conference	China	1826	2.58	4.87	105.79***	2,3542
	Hong Kong	676	<b>7.50<sup>HH</sup></b>	9.86		
	U.S.	1043	5.69 <sup>H</sup>	11.18		
Professional article written for a newspaper or magazine	China	1826	.97	5.00	4.09*	2,3542
	Hong Kong	676	<b>2.25<sup>H</sup></b>	8.35		
	U.S.	1043	1.49	15.99		
Patent secured on a process or invention	China	1826	.30 <sup>H</sup>	1.19	15.60***	2,3542
	Hong Kong	676	<b>.19</b>	1.10		
	U.S.	1043	7.67E-02	.53		
Computer program written for public use	China	1826	.33 <sup>HH</sup>	1.64	16.68***	2,3542
	Hong Kong	676	<b>8.14E-02</b>	.53		
	U.S.	1043	.10	.55		
Artistic work performed or exhibited	China	1826	.13	1.60	11.30***	2,3542
	Hong Kong	676	<b>.24</b>	1.43		
	U.S.	1043	1.73 <sup>HH</sup>	16.39		
Video or film produced	China	1826	6.96E-02	1.66	1.31	2,3542
	Hong Kong	676	<b>.12</b>	.61		
	U.S.	1043	.15	1.13		
Others	China	1826	5.64E-02	.84	8.71***	2,3542
	Hong Kong	676	<b>.63<sup>H</sup></b>	8.70		
	U.S.	1043	.87 <sup>H</sup>	6.57		

Notes: <sup>HH</sup> = Research productivity is higher than that of two other system; <sup>H</sup> = Research productivity is higher than that of one other system; \* p<.05; \*\*\*p<.001.

Table 2: Perceived Congeniality of Work Environment (Hong Kong, Mainland China, & the United States)

	Country	N	Mean	S.D.	F	df
This is a poor time for any young person to begin an academic career in my field	China	3403	2.86	1.25	123.28***	2,5333
	Hong Kong	787	<b>3.00<sup>C</sup></b>	1.38		
	U.S.	1146	3.53 <sup>CC</sup>	1.23		
If I had it to do over again, I would not become an academic	China	3416	3.69	1.35	61.12***	2,5350
	Hong Kong	793	<b>3.78</b>	1.23		
	U.S.	1144	4.18 <sup>CC</sup>	1.10		
My job is a source of considerable personal strain	China	3436	2.41	1.17	142.76***	2,5367
	Hong Kong	788	<b>2.84<sup>C</sup></b>	1.22		
	U.S.	1146	3.06 <sup>CC</sup>	1.24		
How would you rate your overall satisfaction with your current job?	China	3515	2.47	.73	18.87***	2,5458
	Hong Kong	800	<b>2.35<sup>C</sup></b>	.94		
	U.S.	1146	2.31 <sup>C</sup>	.97		
Working conditions in higher education	China	3565	2.29 <sup>CC</sup>	1.04	308.23***	2,5507
	Hong Kong	799	<b>3.22</b>	1.14		
	U.S.	1146	2.82 <sup>C</sup>	1.03		
Restrictions on the publication of results from my publicly-funded research have increased since my first appointment	China	2620	3.17	1.28	57.34***	2,3763
	Hong Kong	651	<b>3.54<sup>C</sup></b>	1.22		
	U.S.	495	3.75 <sup>CC</sup>	1.22		
Restrictions on the publication of results from my privately-funded research have increased since my first appointment	China	2436	3.32	1.24	28.37***	2,3503
	Hong Kong	618	<b>3.59<sup>C</sup></b>	1.06		
	U.S.	452	3.71 <sup>C</sup>	1.20		
Good communication between management and academics	China	3339	3.04 <sup>CC</sup>	1.24	23.60***	2,5238
	Hong Kong	775	<b>3.34</b>	1.18		
	U.S.	1127	3.21	1.18		
Collegiality in decision-making processes	China	3287	2.95 <sup>CC</sup>	1.23	24.45***	2,5172
	Hong Kong	766	<b>3.26</b>	1.06		
	U.S.	1122	3.09 <sup>C</sup>	1.09		
A cumbersome administrative process	China	3289	2.41 <sup>C</sup>	1.18	10.04***	2,5172
	Hong Kong	766	<b>2.20</b>	1.01		
	U.S.	1120	2.35 <sup>C</sup>	1.16		
The administration supports academic freedom	China	3344	2.50	1.15	5.97**	2,5231
	Hong Kong	780	<b>2.51</b>	1.04		
	U.S.	1110	2.37 <sup>CC</sup>	1.02		

Notes: <sup>CC</sup> = Perceived level of congeniality is higher than that of two other systems; <sup>C</sup> = Perceived level of congeniality is higher than that of one other system; \*\*p<.01; \*\*\*p<.001.



Table 3: Predicting Research Productivity from Perceived Congeniality

(N<sub>Mainland China</sub> = 1,862; N<sub>Hong Kong</sub> = 676; N<sub>U.S.</sub> = 1043)

Research Productivity	China	Hong Kong	U.S.
R <sup>2</sup>	.02	.05	.02
F	10.34***	7.74***	5.36*
Df <sup>L</sup>	2, 1338	4, 552	1,356
$\beta$ <sub>restrictions_publicly</sub>	.10***	.13**	-
$\beta$ <sub>collegiality</sub>	-	.12**	-
$\beta$ <sub>satisfaction</sub>	-.06*	-.15***	-
$\beta$ <sub>poor time</sub>	-	-.11*	-.12*

Notes: <sup>L</sup> = Listwise cases exclusion was used;

restrictions\_publicly = restrictions on the publication of results from my publicly-funded research have increased since my first appointment;

collegiality = collegiality in decision-making processes;

satisfaction = how would you rate your overall satisfaction with your current job;

poor time = this is a poor time for any young person to begin an academic career in my field;

\*=p<.05; \*\*=p<.01; \*\*\*=p<.001.

# Conclusion