

Status Quo and Experience of International Research Collaborations at Fudan Univ.

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ABSTRACT

Following the steps of internationalization, some top Chinese universities, including Fudan University, to some extent, are getting more and more involved with international research collaborations. In this presentation, those different ways, through which the international research collaborations have been increased at Fudan University, will be introduced. Examples are as following: through individual faculties, institutes, centers/platforms of Fudan University and their counterpart abroad, through foreign research foundations and companies, through cooperation with alumni, through university exchange and so on.

In order to promote international research collaborations, an influence how foreign affairs staff can exert on this aspect are under consideration at Fudan University. One newly established policy will be presented as well.

Status Quo and Experience of Internations Research Collaborations at Fudan Univ.

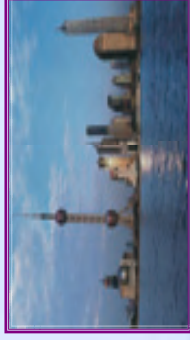
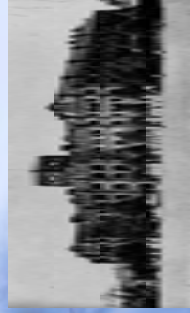
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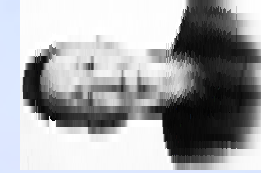
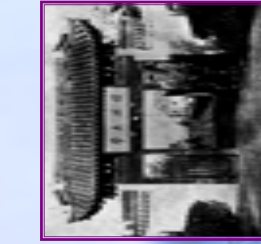
February 1, 2007

Shanghai --- Cradle of Modern Higher Education in China

- In 1849, Xu Hui Public School was established by Catholic Church, followed by other schools by churches.
- In 1896, Nanyang Public School was established as the second college in modern Chinese history.

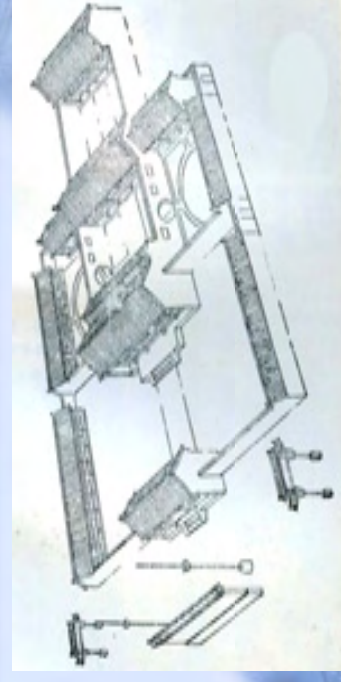


Fudan University: a state key comprehensive university
established in 1905



The founder,
Mr. Ma Xiangbo,
a Dr. of Theology

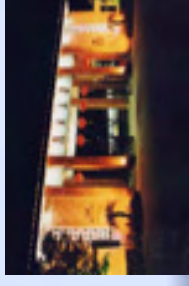
Dr. Sun Yat-sen,
Director of Fudan Board



Restored plan of the university during 1905-1911

History

- ❖ Founded in 1905
- ❖ Renamed as Fudan University in 1917
- ❖ Became a national university in 1941
- ❖ Reinforced into a comprehensive university in 1952
- ❖ Merged with Shanghai Medical University in April 2000



Gate of Fudan Jiang Wan campus (from 1922)

Derivation of the name

- “Brilliant are the sunshine and the moonlight, Again the morning glory after a night.”
——Confucian classic *Shang Shu* (*The book about olden times*)



Li Denghui
(1872-1947)
President of Fudan, 1913-1941.
The only great educator who devoted his life leading only one university in contemporary China.

- The history of Fudan is an integral part of the history of Chinese higher education.
- The fate of Fudan is closely linked with the rise and decline of the nation and the evolution of the society



Design of the New Fudan Campus





Design of Micro-Electronics Research Center and Software School in Zhangjiang, Pudong



Dr. Yan Fuqing, founder of Shanghai Medical College



the design of the comprehensive building in Fudan



New Fudan stadium

Strategic Planning

- Informationalization
- Internationalization
- Inter-disciplinary approach

Fudan University

- 17 Fulltime Schools (colleges)
- 5 Independent Department
- 9 Affiliated Hospitals



Faculty at Fudan University

- 2,177 faculty members
(not including all those in hospitals)
 - 615 professors, 804 associate professors, and 798 lecturers
 - younger than 40: >53%
 - Tutors for PhD: ~600
 - 24 academicians of Chinese Academy of Science and Chinese Academy of Engineering

Cultivation of Talents

- B.A, B.Sc. degree in 79 disciplines
- M.A., M.Sc. degree of 201 disciplines
- PhD degree in 134 disciplines
- 25 Post-doctoral mobile station



Research Institutes: 77
Research Centers: 126
National Key Disciplines:40

Institutes of International Studies

Center for American Studies
 Center for European Studies
 Nordic Centre
 Center for Japanese Studies
 Center for Russian and East European Studies
 Center for Korean Studies
 Center for Latin American Studies
 Austrian Center
 Center

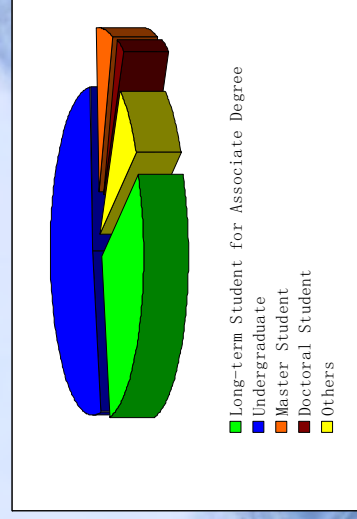
International Liaison Offices

Nordic Centre
 Austrian Center
 Italian House
 National University of Singapore Overseas Campus
 University of North Carolina Liaison Office

200,000 students graduated from Fudan since the foundation of the university

26,327 fulltime students
 Doctoral candidates 3,132
 Master candidates 7,016
 Undergraduates 15,170
 For associate degree 1,009
 (*International students* 2,353)
18,555 part-time students
 Continuing education 11,037
 Distance learning 5,757
 Others 1,761

International Students At Fudan, 2005



(totally 5401, the second largest int'l student group)

Research Units at Fudan

- 77 Research Institutes, 126 Interdisciplinary Research Center, over 140 laboratories, including
 - 5 State Key Lab
 - 9 Ministry of Education Key Lab
 - 6 Ministry of Health Key Lab
 - 2 Ministry of Education Project Center
 - 7 Ministry of Education Key Research Bases of The Humanities and Social Science

State Key Laboratories

- Genetic Engineering
- Applied Surface Physics
- ASIC & System
- Medical Neurobiology
- Advanced Photonic Materials and Devices

Ministry of Education Key Laboratories

- Advanced Coatings
- Applied Ion Beam Physics
- Bio-diversity & Ecological Engineering
- Molecular Engineering of Polymer
- Molecular Medical Virology
- Molecular Medicine
- Nonlinear Mathematic Models & Methods
- Studies of Carcinogenesis & Invasiveness
- Wave Scattering and Remote Sensing Information

Ministry Of Health Key Laboratories

- Molecular Virology
- Glycoconjugate
- Functional Reconstruction of Hand Hearing
- Antibiotics and Clinical Pharmacology
- Viral Myocardial Diseases

Affiliated Hospitals

Total in-ward beds: ~6,000

- 4 general hospitals
(2 in city center, 2 in sub-urban)
- 1 children's hospital
- 1 women's hospital
- 1 cancer hospital
- 1 EENT hospital
- 1 general infectious diseases hospital

Ministry Of Education Key Research Bases of The Humanities And Social Sciences

- Research Center of Ancient Chinese Literature
- Research Center of Chinese Historical Geography
- Research Center of Contemporary Marxism
- Research Center of Chinese Socialist Market Economy
- Research Center of Information and Mass Communication
- Center for American Studies
- Institute of World Economy

Research Platforms for Social Sciences, Ministry of Education

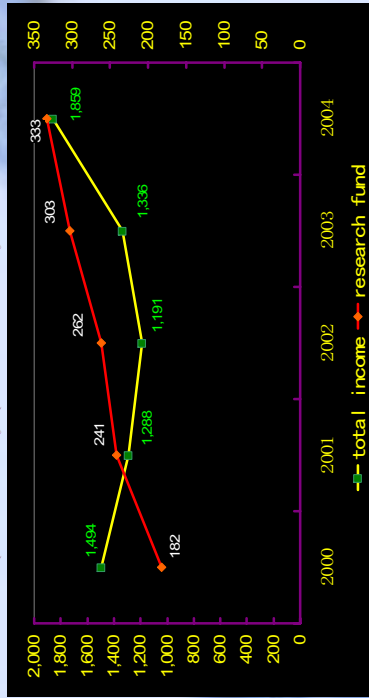
- Cultural Legacy and Cultural Novelty
- Historical Geography
- American Studies
- Overseas Marxism Research
- Public Administration and Public Policy
- Mass Communication and Media Research
- Economic Competition in Global Environment

Research Platforms of Basic Sciences and Technological Innovation

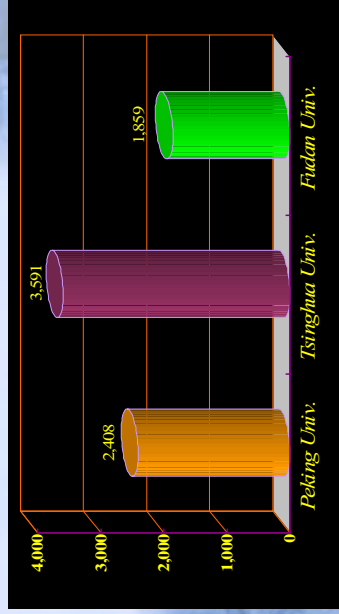
- Advanced Materials Sciences
- Bio-medical Sciences
- Brain Science
- Micro-electronics and Nano-technology
- Mathematics and Physics

Active in Hi-Tech / Science Parks

Yearly income and research fund (2000-2004) (million RMB)



Income of Peking University, Tsinghua University, and Fudan University in 2004 (million RMB)



International Activities at Fudan

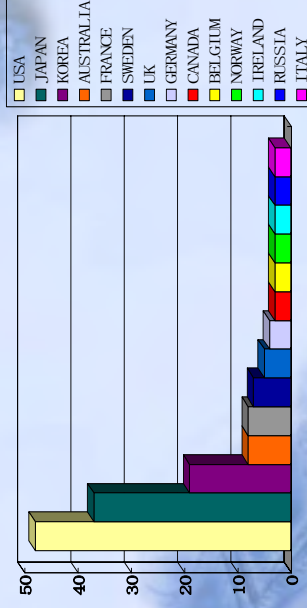
In 2002/03/04/05,

- 5200/3600/>8000 /10000 foreign guests visited Fudan, including
 - university presidents
 - Nobel Prize winners
 - Government TOP VIPs, and
 - CEOs of World enterprises / organizations
- >2500 faculty member visited abroad annually
- >400/500/600/800 students were sent abroad by university

Cooperative projects at Fudan

- More than 10 cooperative projects, ranking the first in universities in China
 - MPA with Hong Kong University
 - MBA with Hong Kong University
 - MBA with BI (Norwegian Management School)
 - EMBA with the University of Washington in St. Louis
 - Master of Language and Literature with Sydney University
 - Master of Micro-electronics with TU Delft University
 - Dual Bachelor Degree in software with University of College, Dublin
 - Master in Management with Hamburg University
 - Master in Fashion Mng with Bocconi University

Fudan University has concluded scholastic exchange/cooperation agreements with over 170 universities in 26 countries



Austria, Finland, Holland, Singapore, Denmark, Mexico, New Zealand, Thailand, Tor 2

International Activities

- Cultural activities for students and faculties
- Invited speeches
 - Academic
 - Governmental
 - Industrial
- Conferences, seminars, workshops, etc
- Joint researches

Vision:

One of the top universities in the world

- Building a first-class faculty team
- Producing students with creativity
- Encouraging interdisciplinary research and achieving breakthrough
- Internationalization
- Contribution to the society

Outline

- Status Quo
- Experience
- University New Policy

Status Quo

- **Number**
- **Level**
- **Various ways**

Various Ways

- 1. Foreign Foundation and companies
- 2. Cooperation via Alumni
- 3. Individual faculties, institutes, centers of Fudan and their counterpart abroad
- 4. University exchange

1. Foreign Foundation and companies

Humanities:

- Ford Foundation: law
- MacArthur Foundation: armament control and regional safety
- EU: Economics
- Japanese International Exchange Foundation (日本国際交流基金): Japanese issues

1. Foreign Foundation and companies

Natural Sciences:

- Intel, IBM, Microsoft, Alcatel, Phillips, HITACHI, FUJITSU:
- Information science and Technology: software, microelectronics, computer, etc.
- LG: Chemistry
- GE: Materials
- DSM Nutritional Products AG, Switzerland: RMB 36 million

1. Foreign Foundation and companies

Intel China Ltd.:

- 1995
- 1999
- Each year of 2001-2006

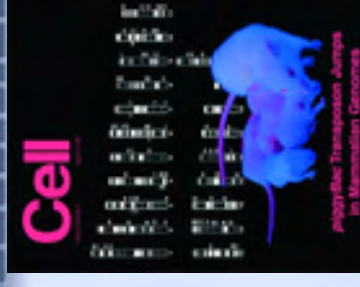
2. Cooperation via Alumni

Institute of Developmental Biology & Molecular Medicine (IDM) (Founded in October 27, 2004)

- As an international academic research center, the IDM promotes scientific and educational exchanges with international scholars.
- Founders: professors of Yale Univ., Colorado Univ., Duke Univ.

2. Cooperation via Alumni

- Academic Advisory Committee of IDM:
 - 6 Chinese Members
 - 7 foreign members from:
 - Harvard University
 - UTSW (University of Texas Southwestern Medical Center Dallas, Texas)
 - Baylor Medical School, Yale Univ.
 - MIT
 - FHCRC (Fred Hutchinson Cancer Research Center, Seattle)



Efficient transposition of the piggyBac (PB) transposon in mammalian cells and mice.
Cell. 2005 Aug 12;122(3):473-83. Epub 2005 Jul. 21.

3. Individual faculties, institutes, centers of Fudan and their counterpart abroad

Population Institute of Fudan Univ.

East Asia Development Research Institute of Japan

Kyushu –Shanghai Development

4. University exchange

- Fudan Univ., China
 - Bocconi Univ., Italy
 - ESSEC, France
- } Asia-Link Program
(Fashion Management)
- Univ. of North Carolina: Journalism
 - Queen's Univ.: MPA Program
 - Helsinki Univ. of Technology (TKK): Gender study

Experience

- Seize the opportunities of receiving visitors:
York Univ.

Toronto-Shanghai Urban Culture Symposium

Experience

- Explore more collaboration with exchange partners

Queen's Univ.

Development study, biodiversity, environmental protection

Experience

- Pay attentions to different materials from embassy, general consulate, foreign universities

Scholarship from Canadian Embassy

University New Policy

Aims:

- To fetch in and create more research collaboration opportunities
- To explore internationally competitive research
- To promote the strength of international research collaboration at Fudan

University New Policy

Methods:

1) Three-office-involved working system

Foreign Affairs Office
Office for Humanities Research
Office for Natural Sciences Research

University New Policy

2) Making full use of various platform

American Center
Nordic Center
Austrian Center
Europe Center
Yale-Fudan Liaison Office
UNC Office
China-Sweden College, etc.

University New Policy

- 3) Keeping close contact with well-known universities and striving for their research strength and funding

