



A brief Introduction of Department of Biostatistics, School of Public Health, Fudan University

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Fudan University

- Consists of 29 schools and departments, with 70 undergraduate disciplines
- Has 10 teaching hospitals
- Has an enrollment of 26,792 full-time degree candidates including 2,812 foreign students
- Has over 2,481 full-time teachers and researchers including 1,400 full professors and associate professors.



Fudan University

- Shanghai Medical University was merged with Fudan University in 2000.
- The original schools and departments of The Shanghai Medical University become 4 schools in the new Fudan University:
 - Shanghai Medical College,
 - School of Public Health,
 - School of Pharmacy,
 - School of Nursing.



Department of Biostatistics

People

- Has 8 full-time teachers including two full professors, one associate professor, five lecturers with degrees of Ph.D.



Department of Biostatistics

Backgrounds of the teachers

- ◆ Preventive Medicine & Medical Statistics
- ◆ Mathematics & Medical Statistics
- ◆ Mathematical Statistics



Department of Biostatistics

Courses

- For graduates:

Medical Statistics, Multivariate Statistics, Design of Experiment, Clinical Trials, Investigation Techniques, Analysis of Category data, Applied Linear Model, Statistical Analysis Using SPSS, Statistical Analysis Using SAS



Department of Biostatistics

Backgrounds of the graduates

- ◆ Preventive Medicine
- ◆ Public Administration
- ◆ Mathematics
- ◆ Mathematical Statistics



Department of Biostatistics

Job opportunities for graduates

- Centers for Disease Control
- Pharmacy Industry
- CRO
- Consulting companies
- Universities
- Government Department



Department of Biostatistics

Research

Methodology

- Time series analysis and prediction model research
- Research on multiple failure-time survival models
- Parameter estimation of Population Pharmacokinetics Models
- Statistics Methodology in Bioinformatics



Department of Biostatistics

Research

- Clinical trials methodology
- Analysis of multi-level and longitudinal data
- Missing data analysis
- Statistical inference in outcome-dependent sampling design
- Robust inference
- Generalized partial linear mixed models
- Variable selection
- Empirical likelihood inference



Department of Biostatistics

Research

Application

- Research on clinical diseases such as asthma, HIV, hemophilia, osteoporosis, etc.
- Dynamics Models of infectious diseases



Department of Biostatistics

Grants (After 2000)

- Metabonomics data analysis based on Evolutionary Combined Support Vector Machine (EC-SVM)

NSFC (National Natural Science Foundation of China) 81001286 for 01/11-12/13



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Grants (After 2000)

- The research of the association between temperature and person-times of out-patient and emergency patient in Shanghai hospitals with its prediction models

NSFC (National Natural Science Foundation of China) 30972551 for 01/10-12/12



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Grants (After 2000)

- Robust empirical likelihood inference for longitudinal data

NSFC (National Natural Science Foundation of China) 10801039 for 01/09-12/11



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Grants (After 2000)

- Research on Characteristic index system of health statistics for Shanghai
Shanghai Health Bureau 2007HP006 for 01/07-12/07
- Acu-Injection with Vitamin K for Primary Dysmenorrhe : a randomized trial"
NIH R01 TW007298 (Kronenberg) for 01/04-01/07



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Grants (After 2000)

- Community based vct for hiv in rural migrants in China

NIH TΨ007298 for 04/05-03/08

- Completion of environmental and genetic database

Ministry of Science and Technology, China
2002CB512909 for 01/03-12/07



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Grants (After 2000)

- A Time-series Study of Ambient Air Pollution and Daily Mortality in Shanghai, China
HEI: 4717-RFIQ03-3/04-13 for 01/04-12/06
- Research on new techniques and methods of diagnosis and treatment of Polycystic ovary syndrome
Ministry of Science and Technology, China
2007BAI04B04 for 01/07-12/10



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Grants (After 2000)

- Completion of 15 clinical trials of new drugs



Department of Biostatistics

Publications (after 2005)

over 40 SCI papers in the international journals

- Blood
- Biometrics
- Journal of Multivariate Analysis
- American Statistician
- Journal of Cancer Research and Clinical Oncology
- Cancer Letters
- Environmental Health Perspectives
- Neurology
- Bone
- BMC Medical Research Methodology



Department of Biostatistics

Future development

- Our department has successfully applied the foundation of 985 discipline construction



Department of Biostatistics

Future development

In the next five years, our department will focus on the construction of two platforms:

- Statistical analysis platform for clinical trials and clinical data management, which aims at
Data management and statistical analysis for clinical trials, and construction of electronic information system, e.g., the systems of electronic data collection(EDC) and interactive web response service
- Medical statistics platform, which aims at
Development of statistical methods, providing consulting on statistical methods for medical school and hospitals



Thank you!