

# 初登讲坛

—— 生物统计课程的教学感受

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# Who Am I



2007.4  
→  
←  
2010.5



**Research interests: Bioinformatics & Biostatistics (omics data, complex disease, biological network)**

**New faculty, new teacher, no experience**



# What's statistics

## ■ Statistics

a branch of mathematics dealing with the collection, analysis, interpretation, and presentation of masses of numerical data

*---- From Websters Ninth New Collegiate Dictionary*

The science of collecting, summarizing, presenting and interpreting data, and of using them to estimate the magnitude of associations and test hypotheses. ---*Betty Kirkwood*

# Biostatistics

- When the focus of the analysis is on the biological and health sciences it is called *Biostatistics*.

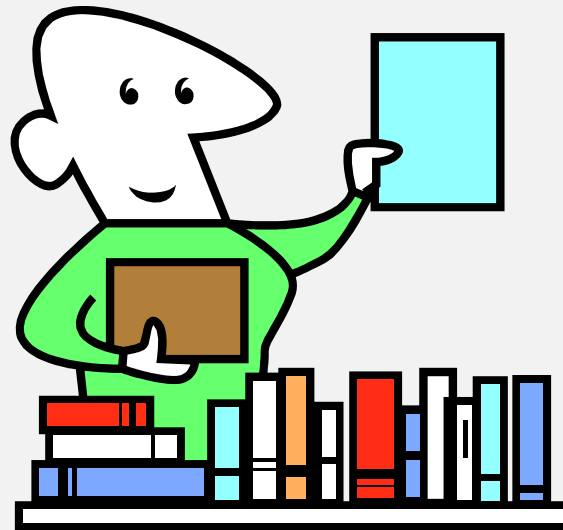
*epidemiologic statistics, clinical trials, survival analysis, and .....*

# Challenges in teaching biostatistics ?

- Again, new teacher
- New course
- No suitable textbook
- Quick update
- Different student's background
- Emergency requirement: teaching in **English**

# What's my role

- **Guider**
- **Facilitator**
- **Expert**



# How to achieve the goal

- Class observation
- USA-China Biostatistics summer school
- TiEn course



**Advanced Biostatistics Workshop 2011 (Sept.1-3)**  
第二届中美生物统计暑期培训班

September 1-3, 2011. The 2nd Advanced Biostatistics Workshop will be held at SJTU. *Welcome!*

**Lectured by**  
Prof. Yu Shyr, Department of Biostatistics, Vanderbilt University, USA  
September 1-3, 2011  
Shuhua Function Room, Life Building, Minhang Campus  
Shanghai Jiao Tong University, Shanghai, China

**Why we learn biostatistics**

Biostatistics involves the theory and application of statistical science to analyze public health problems and to further biomedical research. Recent advances in basic biology, medicine, pharmacology and agriculture present new challenges for the design and data statistical analysis. The workshop aims to provide training to graduate students, postdoctoral fellows and multidisciplinary researchers who are interested or already engaged in statistical analyses in their own research area.

The first Advanced Biostatistics Workshop was held at Shanghai Jiao Tong University, in 2010. Across the course, Dr. Shyr received outstanding ratings and comments from students. Representative comments from 2010 workshops and lectures include:

- Great course, like it very much
- Dr. Shyr is a great lecturer, who gives this course in a really enjoyable way!
- The best statistical training I had ever joined. Enjoy very much.



# What I learned

Learning  
styles

Teaching methods

Teaching styles

Teaching  
philosophy

Assessment &  
evaluation

Course design



# My teaching activities in this semester

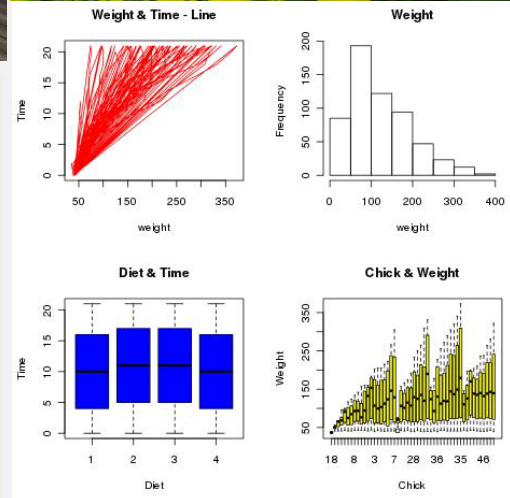


## 油菜花主枝穗数统计

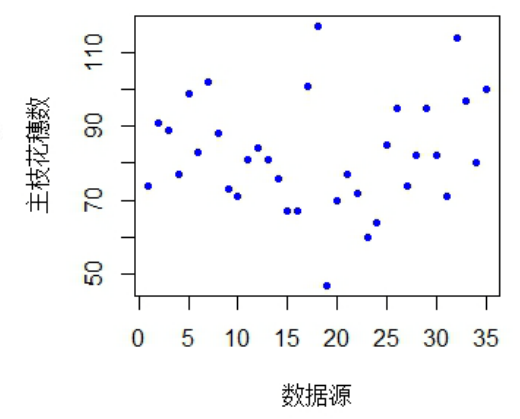
74	88	67	72	95
91	73	67	60	82
89	71	101	64	71
77	81	117	85	114
99	84	47	95	97
83	81	70	74	80
102	76	77	82	100

## Course BI372, Spring 2012

Instructor	<ul style="list-style-type: none"> <li>Jing Li (李婧)</li> <li>E: jing.li@sjtu.edu.cn</li> <li>Office: 4-223, Life Building Complex</li> <li>Office hours: by appointment</li> </ul>
TA	<ul style="list-style-type: none"> <li>Menghuan Zhang (张梦欢)</li> <li>E: zhangmenghuan1990@126.com</li> <li>Office hours: by appointment; 4-221, Life Building Complex</li> </ul>
Schedule	<p>Mon 10:00 - 11:40 Thur 8:00 - 9:40 (even week only)</p> <p>Classroom: 东中院 2-302</p>
	<ul style="list-style-type: none"> <li>Feb 13, Introduction to Data and Biostatistics</li> </ul>



## 油菜花主枝花穗数plot统计



# Problems

- **Course grading**
- **Textbook**
- **Student's enthusiasm and creativity**
- **New cases, time conflicts**
- **Teaching skills**

*Any question?*

*Any suggestion/  
comments ?*

**I am a student here**



**Thanks**