

# MATCHING AND MARKET DESIGN: SYLLABUS

Instructor: Xiang Sun<sup>\*</sup>

Wuhan University, Economics and Management School  
Academic Year 2013--2014, Semester 2

**Prerequisite:** Microeconomics (intermediate)

**Modular credit:** 2 modular credits

**Instructor:** 孙祥

- E-mail: [xiangsun.econ@gmail.com](mailto:xiangsun.econ@gmail.com)
- Homepage: <http://www.xiangsun.org>. If you can not access, please use VPN (e.g., goagent).
- Office: Room A501-1, Liangsheng Building
- Telephone: +86 027 6875 5072
- Mailbox: 11-13

**Time:** Week 1--12, every Monday, 18:00--20:30

**Venue:**

- Lecture 1--4: 亮胜楼 C366
- Lecture 5--9: 高级研究中心 7 栋

**Module website:** <http://www.xiangsun.org/teaching>

**Office hours:** By appointment

**Main references:**

- [RS] Alvin E. Roth and Marilda Sotomayor, *Two-Sided Matching: A Study in Game-Theoretic Modeling and Analysis*, Cambridge University Press, 1992.
- [SU] Tayfun Sönmez and M. Utku Ünver, Matching, Allocation, and Exchange of Discrete Resources, in *Handbook of Social Economics, volume 1A* (Jess Benhabib, Alberto Bisin and Matthew O. Jackson eds.), Chapter 17, 781--852, Elsevier B.V., 2011.
- [AT] Atila Abdulkadiroğlu and Tayfun Sönmez, *Matching Markets: Theory and Practice*.

<sup>\*</sup>E-mail: [xiangsun.econ@gmail.com](mailto:xiangsun.econ@gmail.com). Suggestion and comments are always welcome.

**Language:** Lectures are in English and Chinese. Lecture notes are in English.

**Reading list:**

- [AS] Tommy Andersson and Lars-Gunnar Svensson, Non-manipulable house allocation with rent-control, *Econometrica*, forthcoming.
- [KC] Alexander S. Kelso and Vincent P. Crawford, Job matching, coalition formation, and gross substitutes, *Econometrica* 50 (1982), 1483--1504.
- [Ke] Onur Kesten, School choice with consent, *Quarterly Journal of Economics* 125 (2010), 1297--1348.
- [LMPS] Qingming Liu, George J. Mailath, Andrew Postlewaite and Larry Samuelson, Stable matching with incomplete information, *Econometrica*, forthcoming.
- [TY] Qianfeng Tang and Jingsheng Yu, A new perspective on school choice with consent, working paper, SHUFE, 2013.

**Grading:** Performance (20%), group presentation (60%), and individual report (20%).

**Time table:**

#	Date	Topics	Sections
1	Feb. 22	Marriage problem 1	[RS] 2, 3
2	Feb. 24	Marriage problem 2	[RS] 2, 4
3	Mar. 3	College admission	[RS] 5
4	Mar. 17	House allocation and housing market	[SU] 2
5	Mar. 25	Presentation 1: group 3	[KC]
6	Mar. 27	Presentation 2: group 1	[Ke]
7	Apr. 15	Presentation 3: group 2	[LMPS]
8	Apr. 17	Presentation 4: group 4	[AS]
9	Apr. 18	Presentation 5: 李静晶, 张学立	[TY]
10	Apr. 28	Reports Submission	

**Some useful web sites:**

- [Website of Alvin Roth](#)
- [Website of Fuhito Kojima](#)