

TEACHING STATEMENT

Lin, Yun (llmhyy@gmail.com)

I am enthusiastic for teaching. A good researcher must be equipped with good communication and teaching skills. Personally, I enjoy sharing the knowledge in an articulate way, interacting with students, and taking their opinion from a different perspective. I have witnessed and even worked with many excellent professors who are both good researcher and teacher, such as Prof. Dong, Jin Song (in NUS), Prof. Gail, Murphy (in UBC), Prof. Jens Palsberg (in UCLA), etc. I actively learn from those models and ready to devote myself to serve my students.

The following is my highlighted teaching experience:

- I am organizing our weekly group meeting including research progress report and paper presentation, some of the videos are available at our Youtube channel¹.
- I helped my supervisor teach the course of CS3211, School of Computing, NUS (see the teaching feedback in Figure 1).

In the following, I will briefly describe my teaching interest and philosophy.

Teaching Experience. I worked as a co-lecturer with my supervisor Prof. Dong Jin Song for the course CS3211 as School of Computing, National University of Singapore, and a teaching assistant when I was a graduate student in Fudan University. During my teaching in NUS, I gave two lectures on Java concurrency programming. In this course, I worked with Prof. Dong to design course project and prepare tutorials. This is the course given in COVID situation, we also gave some thought about how to avoid cheating in the final assessment with remote monitoring techniques and randomized question order in test. When I was a teaching assistant in Fudan, I helped design the course project, gave project tutorials, as well as scored the course tests. The above experience equipped me with a good sense of course design. Under the supervision of Prof. Dong, I was also responsible for supervising both undergraduate and master students to accomplish their course projects. The experience of supervising students allows me to better understand time management of the whole team, which well prepares me for a faulty job.

Teaching Interests. My academic background in computer science (Ph.D.) and software engineering (BSc.) enables me to teach a wide range of core undergraduate courses, including but not limited to Programming Languages, Data Structures, Algorithms, Operating Systems, Computer Networks, Databases, Digital Logic, Computer Organization and Architecture, Discrete Mathematics, Data Mining, and Machine Learning. Given my research background, I am well equipped to teach advanced courses about Software Engineering, and Object-Oriented Design and Programming Analysis. Furthermore, the broad range of research experience I had over the years allow me to develop courses and organize advanced seminars in these areas. Specifically, I have plans to design and teach special topic courses on Software Engineering, and Object-Oriented Design and Programming Analysis. In addition to teaching, I would passionately involve in student mentorship programs for both undergraduate and graduate students.

¹I am now organizing the group meeting videos in our lab:
https://www.youtube.com/playlist?list=PLJ_Y-1qaZn19DgweZUisBFg7x5C9rSb5K

Teaching Philosophy.

- *Practice makes perfect.* Computer science is a practical subject, which means students cannot master the skills and gain deep insights into the problems unless they get their hands dirty. Therefore, my classes will be project-oriented. Students will be assigned carefully designed and related projects. Moreover, from software engineering point of view, the students will learn how to cooperate with each other by using latest version control system and wiki documents.
- *Classical knowledge along with latest research.* In addition to teaching the classic theory and approach, I will also teach the latest research work in the same line with the content in textbook. I will carefully explain the rationales behind the classical theory and approach, and how they evolve to new research. By understanding the causalities of classical theory and new research, the students are not only the passive learner, but the active observer or even creator.
- *Time for contemplation and debate.* Many computer science protocols and designs are based on trade-off, for example, the sorting algorithm trades space for time or vice versa; many classical program analysis algorithm trade precisions for efficiency. In my class, I will also leave time for students to think about and debate the design of classical algorithm. Their debate can also go beyond right and wrong. I believe the Socratic style of thinking can also help them gain more mature thoughts, not only in class but in life as well.

To conclude, as a faculty member and an educator, I am passionate about teaching and mentoring students. I am interested in teaching all levels of undergraduate and graduate courses and am ready to serve the department and help my colleagues by teaching courses out of my “comfort zone”. I believe my individual abilities, extensive experiences, communication skills, and determination to teach well will make me a qualified teacher.

Appendix

(Co-)Supervised PhD Students:

- Liu, Ruofan (School of Computing, National University of Singapore)
- Yang, Xianglin (School of Computing, National University of Singapore)

Supervised Undergraduate Students:

- Liu, Ruofan (Faculty of Science, National University of Singapore)
- Ang, Yi Zhe (Faculty of Science, National University of Singapore)
- Ng, Jun Yang (Computer Engineering, National University of Singapore)
- Xiu, Ziheng (Computer Engineering, National University of Singapore)
- Zuo, Xuan (Computer Engineering, National University of Singapore)
- Wu, Qihao (Computer Engineering, National University of Singapore)
- Wang, Chao (School of Computing, National University of Singapore)
- He, Zhenfeng (School of Computing, National University of Singapore)
- Chang, Qing Zhou (School of Computing, National University of Singapore)
- Zhang, Cheng (School of Computing, National University of Singapore)
- Ong, You Sheng (School of Computing, National University of Singapore)
- Yang, Xianglin (Computer Science, Fudan University)

- Zhang, Yinger (Electronic Engineering, Zhejiang University)
- Xu, Zhenyang (Electronic Engineering, Zhejiang University)
- Lu, Yiwen (Electronic Engineering, Zhejiang University)
- Si, Xuyuan (Electronic Engineering, Zhejiang University)

Supervised Graduate Students:

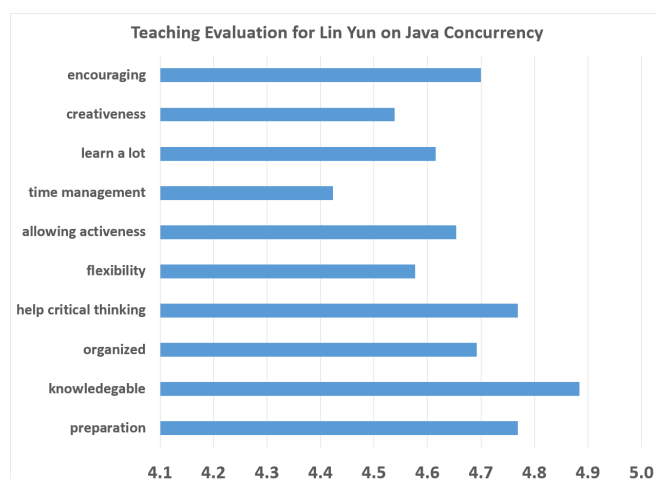
- Foo, Zhirong (School of Computing, National University of Singapore)
- Moon, Byunghun (School of Computing, National University of Singapore)
- Dai, Yuan (School of Computing, National University of Singapore)
- Zhang, Hairui (Software Engineering, Fudan University)
- Zhang, Peixin (Electronic Engineering, Zhejiang University)
- Song, Xuezhi (Department of Computer Science, Donghua University)

School of Computing
Department of Computer Science



To Whom It May Concern,

This document is to prove that Dr. Lin Yun worked as a co-lecturer in the course of "Parallel and Concurrency Programming" (CS3211) in the year of 2019. Dr. Lin gave two lectures on Java concurrency programming. The following figures is the calculated based on collective feedbacks from 26 students attending the courses.



Overall, Dr. Lin is good at explaining difficult concepts to young students. We together designed course projects and tests for continuous evaluation. He has very strong sense of responsibility and accomplished the teaching tasks well. If you should need any additional information regarding his performance, please do not hesitate to contact me.

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Figure 1: Teaching Feedbacks from Students Attending CS3211 Course