

Chen-Wei (Jackie) Wang
May 31, 2020

Dear Chair of the Lassonde Awards Committee:

Please accept this short statement to supplement the nomination letters, written by my students and colleagues, for the *Lassonde Faculty Award: Educator of the Year 2020*. Evidence listed in this letter, together with all nomination letters, shall justify that I achieved excellence in teaching, specifically:

1. I demonstrate substantial continuing involvement and commitment to high quality undergraduate education, by means of developing and adopting innovative pedagogy and teaching methods.
2. I am able to create an engaging and rewarding learning experience for my students, by means of an exceptional use of technology for classroom instruction and outside-classroom tutorials.

A true educator should, intellectually, engage and mentor their students. On the one hand, my innovative delivery of course content makes it effective for students to comprehend and reflect. More specifically, I integrate the use of a drawing tablet (to illustrate complex ideas and examples via systematic, coloured annotations) and recording/sharing technologies, to create lecture and tutorial videos which help my students learn outside the classrooms at their own pace. Informed by many anecdotes, impact of my open-access lectures and tutorials extends beyond my own students in Lassonde: many students who were in other sections, or those who already entered a more senior year or even graduated, have found these materials effective for their review and re-review on core concepts of computer science and software engineering. On the other hand, my course materials (i.e., slides, iPad notes, written notes, code examples) are designed with both academic rigour and practical implications. As an example, consider a lecture of EECS3311-W20 where I collaborated with students in completing the formal specification of a programming routine: <https://youtu.be/dFJ2QhiGlPE> [23:26 - 1:04:45].

Evidence of Teaching Excellence

- My innovation in pedagogy and teaching methods as described above is recognized, through rigorous peer review, by the international research community of computing education:
 - **Chen-Wei Wang**. *Integrating Drawing Tablet and Video Capturing/Sharing to Facilitate Student Learning*. In *ACM Global Computing Education (CompEd)*, pp. 150 – 156. ACM, 2019. [<https://doi.org/10.1145/3300115.3309530>]
 - **Chen-Wei Wang**. *Creating Tutorial Materials as Lecture Supplements by Integrating Drawing Tablet and Video Capturing/Sharing*. In *Computer Science Education Research Conference (CSERC)*, pp. 1 – 8. ACM, 2019. [<https://doi.org/10.1145/3375258.3375259>]
- A gallery exhibiting how I use a drawing tablet (iPad) to teach complex ideas can be found here: <https://www.eecs.yorku.ca/~jackie/teaching/iPad/index.html>
- Lectures of the eleven iterations of the five undergraduate courses I taught were all delivered innovatively as described above and recorded. Links to these recordings, together with complementary learning materials had been made accessible to students in a timely manner: <https://www.eecs.yorku.ca/~jackie/teaching/lectures/index.html>
- I have recorded thirteen series of tutorial videos with a total length of **64 hours and 22 minutes** to support my students' learning. A comprehensive roadmap can be found here: <https://www.eecs.yorku.ca/~jackie/teaching/tutorials/index.html>
- A separate Appendix document summarizes the online course evaluation (ONCE) numerical results, confirming that students perceive me as caring and effective in helping them learn.