

Learning Report

I recently presented my research paper “Laser quadrat and photogrammetry based autonomous coral reef mapping ocean robot” at the Intelligent Robotics and Industrial Applications using Computer Vision 2019 conference of the Electronic Imaging Symposium 2019 in Burlingame, San Francisco. The Symposium offered five full days of educational and thought-provoking presentation and discussion with innovators and leaders in the fields of electronic imaging. It is widely regarded as the world’s leading forum for electronic imaging professionals from academic and industry. The symposium this year will have over a thousand delegates and a few hundred presentations in different conferences.

I was very fortunate to have been awarded the best student presentation award at the conference for my research work. I had done a research project through semester 1 of 2017 and written a research paper in semester 2 on my work under Prof. Edmund Lam of the EEE department. On his recommendation I sent my abstract for acceptance to this highly prestigious conference. I was very honored to learn that my research paper was accepted in this conference for presentation. I have worked for over one year to finish this paper and I was happy to have won the best student presentation award.

I also got to attend short courses at the event. The courses I attended were “3D imaging” and “Introduction to Tensorflow”. 3D imaging was a course by a Professor from Rochester Institute of Technology about how a pair of camera can be used to take images offset from each other and then using matrix transformations and some triangulation, we can generate 3D objects out of the 2D images. Tensorflow is a Machine Learning framework that reduces the effort required to build complex machine learning systems by providing abstractions of these structures to use. The course was taught by Magnus Hysttsten - a top developer at google. I was very fortunate to learn from all these people.

Finally, I had the opportunity to present my own project poster at the conference. My poster was featured in the student and FYP section. My poster was visited by some of the top academics in the field. I was fortunate to learn from these academic peers about how my project could be improved and how my poster could be made more intuitive for readers to understand my research, irrespective of what their academic background might be. I met Prof. Ramesh Raskar from the MIT who was very interested in my work and Mark Bolas, inventor of Augmented Reality. Meeting with these pioneers was a life changing experience for me. I learnt from their experiences and guidance and look forward to conducting better, more impactful research in the future and making a difference with my work.

Overall, the conference was very successful and I had an incredible learning experience. Delivering the oral presentation for this paper at a top conference has been a dream for me since I started this initiative and the Ho King Chun Leadership Fund was key to seeing my dreams become a reality.

