

Statement of Dr. Ang Liu

I obtained my doctoral degree in Mechanical Engineering at the University of Southern California (USC). Since 2016, I have been a Senior Lecturer at the School of Mechanical and Manufacturing Engineering, University of New South Wales (UNSW). I have rich experiences in developing, coordinating, and teaching courses for various levels, to diverse audiences, and at different scales. I specialise in teaching the subjects of “engineering design” and “technological innovation.” From 2013 to 2016, I served as the Manager of the Viterbi iPodia Program at USC, where I was responsible for developing the iPodia Alliance, connecting globally distributed classrooms, developing new learning technologies, organising the overseas study, evaluating programme effectiveness, and developing international joint courses. I am the inaugural Director of the NAE Grand Challenge Scholar Programme (GCSP) at UNSW. I am an active member of the Faculty Board, Engineering Education Innovation Committee, and Education Quality Assurance Committee at UNSW.

I have been conducting rigorous research in engineering education, with particular focuses on learning technologies, global virtual team, and interactive learning environment. I have published five journal papers and 16 conferences papers to date, which are all directly scoped to engineering education. I have successfully attracted five external and internal grants to sustain my engineering education research. I maintained long-term collaborations with many engineering educators around the globe. I have been regularly attending the major engineering education conferences such as the AAEE Conference, ASEE Conference, World Engineering Education Forum, IEEE Frontiers in Engineering Education, *etc.* At UNSW, I actively promoted engineering education on many occasions such as the Teaching & Learning Forum, PLS Alliance Forum, Connection Seminars, *etc.*

I have been serving multiple international academic organisations. I am the General Chair of the 13th International Conference on Axiomatic Design (www.icad2019.org) to be held at UNSW in 2019. I am a member of CIRP (International Academy for Production Engineering), which is the world leading organization in design and manufacturing (this membership is limited to 150 well-known engineers in the world). I am a Fellow of the PLS Alliance (www.plusalliance.org) to lead global education initiatives. I am an inaugural member of the Early Career Academy of the Australasian Association for Engineering Education (AAEE).

Based on my previous engagement in engineering education, I am very keen to join the AAEE Executive Committee and serve the AAEE community to my best ability. It is my goal to organise an AAEE Annual Conference at UNSW Sydney in the near future. I am committed to promoting the continued growth of the AAEE community by inspiring more colleagues to reflect their best practices of teaching and learning, conduct evidence-based research on engineering education, and synchronize educational practice and research. I will contribute to the promotion of cross-institutional, cross-cultural, and cross-disciplinary international collaborations on engineering education between Australasian and global Universities. I will enhance the strategic collaboration between AAEE and other engineering education organizations. In parallel with the initiative of “Industry 4.0”, I am especially keen to promote the new paradigm of “Education 4.0” that is characterised by cyber-physical learning, personalised learning, and decentralised learning. Lastly, as a “global citizen” who was born in China, educated in the United States, and nowadays residing in Australia, I am committed to developing a more inclusive higher education environment, where diversified backgrounds, perspectives, and preferences would be leveraged as a valuable resource to educate engineers for the 21st Century and inspire breakthrough engineering innovations.