

Prof YEONG Wai Yee
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Website: <https://www.yeongresearch.com/>

Google scholar: <https://scholar.google.com/citations?user=CgowDcwAAAAJ&hl=en>

Academic Qualifications

2007	PhD (Mechanical and Aerospace Engineering), Nanyang Technological University
2003	BEng (Hons) Cl 1 (Mechanical & Production Engineering), Nanyang Technological University

Current Position

Since 2022 Chair, Professor of Mechanical Engineering, School of Mechanical & Aerospace Engineering, Nanyang Technological University

- Responsible for leading and managing the school to maximize potentials and achieve highest possible standards of excellence in academic, education and research.
- In 2025, school ranked #4 in QS ranking by subject of ME, #3 in Shanghai ranking 2025.
- Created new degree program in Robotics, undergraduate and Master program.
- Scaled up master program, increased 40% students enrolment and launched additional 3 new programs.

Previous Position

Nov 2023 to Oct 2025	Deputy Director for HP-NTU Digital Manufacturing Joint Lab (HP-NTU) (Conc Appt)
Aug 2018 to Sep 2022	Associate Professor, Associate Chair (Students) for School
Dec 2014 to Nov 2016	Programme Director, Aerospace & Defence Programme, SC3DP, NTU (Conc Appt)
Mar 2013 to 2018	Assistant Professor, NTU
Mar 2010 to Mar 2013	Principal Engineer, Alcon Asian Manufacturing & Logistics, Singapore
Feb 2009 to Feb 2010	Research Fellow, NTU
Jan 2008 to Dec 2008	Trainee Scientist, Abbott Vascular Research & Advanced Development, Sunnyvale, California, USA
Dec 2006 to Dec 2007	Research Engineer, SIMTech

RESEARCH SUMMARY

- Bioprinting of cells and tissue, Tissue engineering
- 3D printing of electronics and metal
- **Secured >\$18 million in research funding** from various funding agencies

Research Awards / Recognition

Year	Research Award / Recognition
2025	Ranked #1 by ScholarGPS, in 3D printing (prior 5 year)
2024, 2022	Listed as one of the Highly Cited Researchers by Clarivate (top 0.1% scientist in the world)
2021 – 2025	Recognized in the Top 2% Scientists Worldwide in a study from Stanford University. The selection is based on the top 100,000 by c-score (with and without self-citations) or a percentile rank of 2% or above.
2024	Named Highly Ranked Scholar by ScholarGPS in 3D Printing https://scholargps.com/scholars/10379458940587/wai-yee-yeong?e_ref=30206011dcc4bf774971
2024	Top 50 Asia Women Tech Leaders Award 2024 The inaugural award recognises her exceptional contributions and achievements in the tech sector, where she is a pioneer in 3D printing technologies, especially in the biomedical and aerospace sector.
2023-2025	Served as Expert Panel Member for European Research Council (ERC) on Advanced Grants 2023, 2025 (PE8) – the only member from Singapore/Asia
2022	Awarded the NRF Investigatorship Class of 2022 The NRF Investigatorship provides opportunities for established, innovative and active scientists and researchers, in their mid-career, to pursue ground-breaking, high-risk research. It is designed to support a small number of excellent Principal Investigators who have a track record of research achievements that identify them as leaders in their respective field(s) of research.
2021	Honoured as one of the women in the Singapore 100 Women in Tech (SG100WIT) 2021 List SG100WIT list aims to honour 100 inspiring who have contributed significantly to Singapore's emerging tech landscape. https://www.sgwomenintech.sg/100-sg-women-in-tech-2021/
2019	International award- Inaugural TCT Woman in 3D Printing Award , for her significant achievement in 3D printing. The award is a collaboration between the TCT Group and Wi3DP and spotlights women who are leading the charge in the 3D printing and AM sector. https://www.ntu.edu.sg/mae/news-events/news/detail/-tct-women-in-3d-printing-innovator-award

Year	Research Award / Recognition
2018	<p>Finalist for Lush Award 2018 (Science category) for developing tissue models for animal-free testing.</p> <p>The Lush Prize is a major initiative aiming to bring forward the day when safety testing takes place without the use of animals. 56 projects and scientists from 17 countries made it through to the final judging process in 2018.</p> <p>https://lushprize.org/2018-prize/2018-prize-shortlist-lush-prize/</p>

Keynote & Invited Presentations (Selected)

1. Invited talk at RC Seminar Graduate School of Information Science and Technology, U Tokyo, Japan. 08 Jan 2026 (online) .
2. The16th International Conference on Flexible and Printed Electronics (ICFPE 2026), Plenary speaker: 3D printing of electronics and sensors: From soft robotics to bioelectronics. Jeju, South Korea, from August 26th to 28th, 2026. organized by the Korean Federation of Printed Electronics (KFPE)
3. 7th International Conference on Manufacturing Process & Technology (ICMPT 2026) Keynote speaker: [Intelligent design and materials via 3D hybrid printing](#) Organized by Korean Society of Manufacturing Process Engineers (KSMPE).
4. Plenary speaker at Nanohealth symposium . 10 November 2025, The University of Sydney, Australia
5. The 29th International Conference on Miniaturized Systems for Chemistry and Life Sciences - Micro-Total Analysis Systems (μ TAS 2025)
6. Keynote speaker. 2-6 November 2025, Adelaide, Australia
7. Pluripotent Stem Cell Conference 2025 (PSConf 2025). June 7-9, Beijing. Keynote speaker.
8. Plenary talk: TCT & TIPE Present: TCT WI3DP Innovator Award Day 2025 (online)
9. Plenary talk : The 1st International Online Conference on Bioengineering: Bioengineering in a Generative AI World, 16 OCT 2024
10. Keynote talk at the Asian Engineering Education Sub-Forum, part of the 52nd Annual Conference of the European Society for Engineering Education (SEFI 2024), Switzerland 02-05 SEP 2024
11. The 4th International Conference on Biomaterials, Bio-Design and Manufacturing (BDMC2024), Tokyo Japan, 18 Aug 2024.
12. Keynote talk ICCES2024, The 30th International Conference on Computational & Experimental Engineering and Sciences (ICCES2024), August 3-6, 2024. Singapore
13. Plenary speaker, ASBTE 2023, Christchurch New Zealand, 12-14 April 2023

Citation Summary

Database	Citation Count		H-index
	without self-citations	with self-citations	
Web of Science (SCI)	13,838	14,664	63
Scopus	16,113	17,226	65
Google Scholar		25,567	77

Publications

- **19 highly cited papers in WoS as of Aug 2025.** They are in the fields of Computer Science, Engineering, Materials Science, Physics and Clinical Medicine. Representing **top 1%** of publication in these fields.
- Total 127 papers, published in Progress in Materials Science, Advanced Healthcare Materials, Advanced Materials Technologies, Materials Science and Engineering: R: Reports and more

Innovation & Patents

12 Patent applications filed on new materials, process and design ; throughout the area of robotic grippers, printed sensors, 3D printable bioink, tissue engineering , metal printing process and others.

Academic Supervision and Mentoring

PhD students

On-going: 5 full time, 3 part time

Graduated: 10 (3 of them holding academic position in universities)

Teaching Awards / Recognition

Year	Teaching Award / Recognition
2022	Supervised Post Doc Lee Jia Min won best papers at The international Conference of Additive Manufacturing for a better world, Singapore
2022	Supervised PhD student Huang Sheng won runner-up for the Graduate College Research Excellence Award in the academic year 2021/22
2022	FYP student Phua Shin Zert elected as MAE Valedictorian 2022, and shin zert proceed to secured a scholarship to study Master in Cambridge.
2022	PhD graduate and current research staff, Dr Lee Jia Min, was selected to participate in the 71 st Lindau Nobel Laureate Meeting (Chemistry) in Germany from 26 June to 1 July 2022

Year	Teaching Award / Recognition
2022	Supervised PhD student and Post Doc , Ng Wei Long awarded the NTU Presidential post-doc fellowship 2022
2020	Supervised PhD student who was awarded Research Assistant Professorship (Dr Ng Wei Long)
2020	Supervised PhD student who was awarded the NTU Presidential post-doc fellowship 2020 (Dr Sing Swee Leong). Swee Leong is now Assistant Professor in NUS.
2020	Supervised 3 Nanyang Research Programme/ Junior Researcher teams who were awarded Gold Award
2019	Mentored PhD student who was selected to attend ASEAN DEAN FORUM - The Rising Stars Women in Engineering Workshop (Dr Lee Jia Min)
2018	Supervised URECA undergraduate student Lee Yi Wei who was awarded 2 nd place in Engineering category of 2018 Discover URECA Poster Competition

Service to Singapore and International Community

Period of appointment	Role
Since 2025	Airport innovation task force member
Since Nov 2024	Member of the Advanced Manufacturing Training Academy (AMTA), Sub-Committee for Training and Curriculum, by SkillsFuture Singapore (SSG) and Singapore Manufacturing Federation (SMF)
Since 2022	Member of the Steering Committee for National STEM Championship (NSC) 2022, 2023, 2025 , organized by Science Centre Singapore which is a national platform

Leadership in Journal and Scientific Societies

Since 2023	Started a new journal and serve as founding Editor-in-Chief , International Journal of AI for Materials and Design (AccScience Publishing)
Since 2022	Serve as treasurer for Scientific Society in Tissue Engineering, TERMIS-AP chapter.
2022	Member of Editorial Board of Biofabrication (Tier 1A, IF 9.954) https://iopscience.iop.org/journal/1758-5090/page/Editorial%20Board
2015 - present	Associate Editor of International Journal of Bioprinting (IJB), (IF 6.667) https://ijb.whioce.com/index.php/int-j-bioprinting/about/editorialTeam
2013 – present	Associate Editor of Virtual and Physical Prototyping (VPP), (IF 8.092) https://www.tandfonline.com/journals/nvpp20

Organization of Scientific Meetings / Leadership in Collaboration Networks

2025 – **Asia Mechanical Engineering Leaders 2025**, a platform of chairs and deans of mechanical engineering from top universities in Asia.

2025 - General Conference Chair, main organizer of FutureAM conference 2025 1st International Conference on Future of AM <https://futuream.sg/>

2021- Co-organizer, International symposium “AM of electronics” at the ASTM International Conference on Additive Manufacturing (ASTM ICAM 2021), hosted by the ASTM International Additive Manufactured Center of Excellence. <https://amcoe.org/icam2021>

2020- Co-organizer, International symposium SM08-Next-Generation Materials and Technologies for 3D Printing and Bioprinting, at 2020 Virtual MRS Spring/Fall Meeting, 27 NOV -04 Dec 2020.

Also served as Reviewer for international grants, including ERC (European research council) Advanced Grant, Rosetrees (UK), Mitacs (Canada), NOW (Netherlands), , FNRS (Belgium), SFI (Ireland) and more.