

CURRICULUM VITAE OF DR. YONG LIAN

Personal particulars

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Education

- Ph.D. in Electrical Engineering, 1994, Department of Electrical Engineering, National University of Singapore. Ph.D dissertation entitled "The Design of Computationally Efficient Finite Impulse Response Digital Filters" under the guidance of Professor Yong-Ching Lim.
- B.Sc. in Business, 1984, College of Economics & Management, Shanghai Jiao Tong University.

Employment

Period	Position	Company/Institution
2013 - present	Professor	Dept. of Electrical Engineering and Computer Science, Lassonde School of Engineering, York University
2017 - present	Chair, Tenure and Promotion Committee	Dept. of Electrical Engineering and Computer Science, Lassonde School of Engineering, York University
2013 - 2017	Member of Executive Committee	Dept. of Electrical Engineering and Computer Science, Lassonde School of Engineering, York University
2011 - 2012	Provost's Chair Professor	Dept. of Electrical & Computer Engineering, National University of Singapore
2011 - 2012	Member of University Tenure and Promotion Committee	National University of Singapore
2011 - 2012	Member of Senate Delegacy	National University of Singapore
2010 - 2012	Area Director (Integrated Circuits and Embedded Systems)	Dept. of Electrical & Computer Engineering, National University of Singapore
2008 - 2009	Associate Chair of Department (Research)	Dept. of Electrical & Computer Engineering, National University of Singapore
2010 - 2012	Professor	Dept. of Electrical & Computer Engineering, National University of Singapore
2002 - 2010	Associate Professor (Tenured)	Dept. of Electrical & Computer Engineering, National University of Singapore
1999 - 2001	Assistant Professor	Dept. of Electrical & Computer Engineering, National University of Singapore
1996 - 1999	Senior CAD/CAM Specialist	CAD/CAM Centre National University of Singapore
1995 - 1996	Business Development Manager (Great China)	Xyplex Network Inc., Singapore

1993 - 1995	R&D Engineer	SyQuest Technology International, Singapore
1987 - 1990	Vice President	Brighton Information Technology Ltd, Shanghai, China
1984 - 1987	Sales Manager	NanYang Computer Co., Shanghai, China

Honors and Awards

Honors

1. President, IEEE Circuits and Systems (CAS) Society (2018-2019). The first one from China being elected to lead the society in 68-year history of CAS Society, which is the largest and oldest circuits and systems community in the world.
2. Editor-in-Chief of IEEE Transactions on Circuits and Systems II for two terms (2010-2013). It is the first time that someone from Asia was given this prestigious position in the transactions 57-year history.
3. Fellow, Academy of Engineering Singapore (2012).
4. Provost's Chair Professor (2011), in recognition of the outstanding and impactful scholarly accomplishment.
5. IEEE Fellow (2009), for the contributions to the design of low-power high-performance digital filters.

Research Awards

1. Winner of Live Demonstration in the 12th IEEE International Conference on Biomedical Circuits and Systems (BioCAS2016) for the demo "Evaluation of Consumer's Preference using Augmented Reality and EEG", Shanghai, China, October 17-19, 2016.
2. Design Contest Award with EUR2000 cash in the 20th International Symposium on Low Power Electronics and Design (ISLPED2015) for the paper "A 2.89 μ W Clockless Fully-Integrated Wireless ECG SoC for Wearable Sensors", Rome, Italy, July 22-24, 2015.
3. 2014 Chen-Ning Yang Award in Science and Technology for New Immigrant (Singapore)
4. 2013 Outstanding Contribution Award by the Tan Kah Kee International Society and Hua Yuan Association (an organization for Chinese immigrants in Singapore).
5. Best Design Award of Student Design Contest in 2013 IEEE Asian Solid-State Circuits Conference for the paper "An ECG-SoC with 535-nW/Channel Lossless Data Compression for Wearable Sensors" by PhD students, CJ Deepu, X Zhang, WS Liew, DLT Wong.
6. 2012 Faculty Research Award, National University of Singapore.
7. 2011 IES (Institution of Engineers Singapore) Prestigious Engineering Achievement Award in recognition of the development of CardioLeaf ECG Plaster.
8. 2008 Multimedia Communications Best Paper Award from the IEEE Communications Society for the paper "Joint source-channel-authentication resource allocation and unequal authenticity protection for multimedia over wireless networks" in the IEEE Transactions on Multimedia, Vol.9, No.4, June 2007, pp.837-850, with Z Li, QB Sun and CW Chen. The award recognizes outstanding work in the field of Multimedia Communications. The best paper is selected from any publication in an IEEE Communications Society's journal/magazine or in the proceedings of an IEEE Communications Society sponsored conference/workshop/symposium in the two years preceding the award.
9. 1996 IEEE Circuits and Systems Society's Guillemin-Cauer Award for the paper "Frequency-response masking approach for digital filter design:

- complexity reduction via masking filter factorization" in IEEE Transactions on Circuits and Systems Part 2, Vol.41, No.8, pp.518-525, 1994, with Y.C. Lim. The Guillemin-Cauer Award is to recognize the best paper published in the IEEE Transactions on Circuits and Systems during the two calendar years preceding the award.
10. Winner of the 47th DAC/ISSCC Student Design Contest(2010) with US\$2000 cash by Ph.D student, Liew Wen Sin, for the paper "A 0.8-V 32-fJ/Conversion-Step Dual-Capacitive-Array Successive Approximation Analog-to-Digital Converter". The paper was presented in both IEEE Solid-State Circuits Conference (ISSCC) in Feb 2010 in San Francisco, USA and IEEE 47th Design Automation Conference (DAC) in June 2010 in Anaheim, USA.
 11. Gold Leaf Award received by Ph.D student, Jinghua Zhang, at 2010 Asia Pacific Conference on Postgraduate Research in Microelectronics & Electronics (PrimeAsia 2010) for the paper "A 1-V 42.6 μ W 1.5-bit Continuous-Time Delta-Sigma Modulator for Audio Applications". The Gold Leaf Award recognizes the top 10% papers presented in the conference.
 12. Silver Leaf Award received by Ph.D student, Lei Wang, at 2010 Asia Pacific Conference on Postgraduate Research in Microelectronics & Electronics (PrimeAsia 2010) for the paper "A 3-5 GHz All-Digital CMOS UWB Pulse Generator". The Silver Leaf Award recognizes the top 20% papers presented in the conference.
 13. First Place Winner with \$300 cash in 2009 IEEE Region 10 Undergraduate Student Paper Contest by Final Year Student, Ho Bing Kun, for the paper "Low Power Design of a 16-Band Non-Uniform Filter Bank for Hearing Aid Application".
 14. 2009 IEEE Circuits and Systems Singapore Chapter Graduate Student Award with a cash prize of S\$200 received by Ph.D student Zou Xiaodan.
 15. Merit Award for the 23rd FoE Innovation and Research Awards (2009) by Final Year Project student Ho Bing Kun for project titled "Low Power Design of 16-band Non-uniform Filter Bank for Hearing Aid Applications".
 16. Gold Leaf Award received by M.Eng student, Muhammad Cassim Mahmud Munshi, at 2009 Asia Pacific Conference on Postgraduate Research in Microelectronics & Electronics(PrimeAsia 2009) for the paper "An Efficient Threshold Setting Algorithm for Digital Ultra Wideband Communication Systems". The Gold Leaf Award recognizes the top 10% papers presented in the conference.
 17. Gold Leaf Award received by Ph.D student, Jun Tan, at 2009 Asia Pacific Conference on Postgraduate Research in Microelectronics & Electronics(PrimeAsia 2009) for the paper "A 1-Volt, 2.5-mW, 2.4-GHz Frequency Synthesizer in 0.35 μ m CMOS Technology". The Gold Leaf Award recognizes the top 10% papers presented in the conference.
 18. Best Student Paper Award Received by M.Eng student Zhi Li at 2007 International Conference on Multimedia & Expo (Beijing, China, 2-5 July 2007) for the paper "Constructing secure content-dependent watermarking scheme using homomorphic encryption," with Z Li, XL Zhu, and QB Sun.

Other Awards by Students

1. 2016 Ontario Trillium Scholarship by PhD student, Zhongxia Shang, Dept. of EECS, Lassonde School of Engineering, York University.
2. Finalist for the Best Paper Award by PhD student, Jingna Mao, in IEEE International Symposium on Circuits and Systems, May 22-25, 2016, Montreal, Canada.
3. Winner of 2015 IEEE CAS Charles Desoer Life Science Systems Student Attendance Grant by PhD student, Jingna Mao. The award aims at recognizing early career accomplishments by graduate students in the field of biomedical circuits and systems and life science.

4. Winner of 2014 IEEE Solid-State Circuits Society Student Travel Grant Award by PhD student, Yongfu Li. The award aims at recognizing early career accomplishments by graduate students in the field of solid-state circuits.
5. Winner of 2014 IEEE Solid-State Circuits Society Student Travel Grant Award by PhD student, Zhe Zhang. The award aims at recognizing early career accomplishments by graduate students in the field of solid-state circuits.
6. Faculty of Engineering 27th Innovation & Research Award (Merit Award) in 2013 by final year student, Lin Junwei, Lam Cheng Yan and Huang Hanjie, on the project titled "A Wireless Wearable Blood Pressure Sensor for Chronic Disease Management".
7. Best Poster Presentation Awards received by M.Eng student, David Wong Liang Tai in 3rd NUS ECE Graduate Student Symposium, 27-28 Feb. 2013, Singapore.
8. Winner of 2013 IEEE Solid-State Circuits Society Student Travel Grant Award by Ph.D Student, Xiaoyang Zhang. The award aims at recognizing early career accomplishments by graduate students in the field of solid-state circuits.
9. Overall Winner in 2012 ECE Graduate Student Symposium by PhD student, Lei Wang, with a prize for conference fees support (for up to \$4000) by the Department.
10. 1st Prize in Integrated Circuits and Embedded Systems in 2012 ECE Graduate Student Symposium by PhD student, Xiaoyang Zhang.
11. Winner of the Rohde & Schwarz 5th Engineering Case Study Competition (2012) with fully paid trip to Munich by Ph.D student, Lei Wang.
12. Winner of Top 5 Teams Prize in 48Hacks National Hackathon 2011 with SGD6000 Cash and an AlphaPitch sponsorship in DemoAsia2012 by Research Engineer, David Wong.
13. Winner of 2012 IEEE Solid-State Circuits Society Student Travel Grant Award by Ph.D student, Lei Wang. The award aims at recognizing early career accomplishments by graduate students in the field of solid-state circuits.
14. Faculty of Engineering 25th Innovation & Research Award (Merit Award) in 2011 by final year student, Yichao Wang, on the project titled "A Computationally Efficient Algorithm for QRS Detection and ECG Data Compression for Wearable ECG Sensors".
15. Winner of the Rohde & Schwarz 3rd Engineering Case Study Competition (2010) with fully paid trip to Munich by Ph.D student, Chacko John Deepu.
16. Winner of the Rohde & Schwarz 2nd Engineering Case Study Competition (2009) with fully paid trip to Munich by Ph.D student, Mahmood Khayatzadeh, M.Eng student Chang Xiaifei, and final year student Li Yongfu.
17. Finalists in 2009 Startup@Singapore by Ph.D student, Deepu Chacko John(as the Faculty Advisor to the team).
18. Finalists with US\$1500 and Kiatnakin Bank 99-Second Pitch Winner with US\$750 by Ph.D student, Deepu Chacko John in 2009 The mai Bangkok Business Challenge@Sasin in Feb. 2009(as the Faculty Advisor to the team).
19. 2nd Prize with \$5000 cash received by FYP student, Maung Zaw Win Min at 2008 Agilent Engineering Excellence Competition 2008.
20. Travel grant (EUR 770) received by Ph.D student, Hu Yingping to attend International Conference on Interactive Computer Aided Learning, Villach, Austria, 27 – 29 Sept. 2006.
21. Best Presentation Award received by M.Eng student Pinping Sun at 2003 Symposium on Microelectronics, Singapore.
22. Plenary Session Presentation by UROP student, Shi Ting Jia, in 9th National Undergraduate Research Opportunities Programme Congress 2003. 16 out of 500 submitted papers were presented in the Plenary Session.

Teaching Awards

University level

- 2009/2010 National University of Singapore Annual Teaching Excellence