Dear Dr. Kaul,

It was my great honor to receive the IEEE MTT-S Graduate Fellowship in Medical Applications. It gives recognition to my academic life as a PhD student. Though I graduated last year and started my career in industry, I have been continuing the research as a part time Adjunct Research Associate in the ECE department at Texas Tech. The outcome resulting from the fellowship project during the past year includes:

Book Chapter: **C. Gu**, and C. Li, Chapter "Physiological Radar Sensor Chip Development" for Book "Medical and Biological Microwave Sensors and Systems," Cambridge University Press, in contract, 2014.

Journal Papers:

C. Gu, and C. Li, "From Tumor Targeting to Speech Monitoring," IEEE Microwave Magazine, accepted for publication, will appear in June 2014.

G. Wang, J. Munoz, **C. Gu**, C. Li, and R. Gomez-Garcia, "Application of Linear-Frequency-Modulated Continuous-Wave (LFMCW) Radars for Tracking of Vital Signs," IEEE Transactions on Microwave Theory and Techniques, accepted for publication, 2014.

S. Guan, J. Rice, C. Li, and **C. Gu**, "Advanced DC Offset Calibration Strategy for Structural Health Monitoring Based on Portable CW Radar Sensor," IEEE Transactions on Instrumentation and Measurement, accepted for publication, 2014.

Y. Yang, **C. Gu**, Y. Li, R. Gale, and C. Li, "Doppler Radar Motion Sensor with CMOS Digital DC-Tuning VGA and Inverter-Based Sigma-Delta Modulator," IEEE Transactions on Instrumentation and Measurement, accepted for publication, 2014.

C. Gu, G. Wang, T. Inoue, and C. Li, "A Hybrid Radar-Camera Sensing System with Phase Compensation for Random Body Movement Cancellation in Doppler Vital Sign Detection," IEEE Transactions on Microwave Theory and Techniques, Vol.61, No.12, pp.4678-4688, December 2013.

C. Gu T. Inoue, and C. Li, "Analysis and Experiment on the Modulation Sensitivity of Doppler Radar Vibration Measurement," IEEE Microwave and Wireless Components Letters, Vol. 23, No. 10, pp.566-568, October 2013.

I also authored/co-authored a few conference papers and received the best paper award as a co-author in IEEE 2014 Radio and Wireless Week. The fellowship encourages me to do more research on the biomedical applications of RF and microwave. I will continue to work on the fellowship project in the next year to tome.

Thank you so much!

Sincerely,

Changzhan Gu

An impression about having attended the IMS

IMS is the flagship conference in the microwave community. It is a great place to meet with peers and renowned researchers and professors. It provides a wonderful platform for face-to-face discussions and communications. The quality of IMS papers has always been on the top level. Attending the presentations greatly helps to keep in pace with the leading research activities and cutting-edge technologies. The industrial exhibition was also a fun part. It was so huge that we can find nearly everything we can imagine in the microwave world.

Your career plans

I received my PhD degree last year and am currently working as a Senior Engineer at Marvell Semiconductor Inc. in Santa Clara CA. My job responsibilities include the hardware reference design for various wireless connectivity technologies such as WiFi, Bluetooth, NFC, etc. Working in industry helps to polish my hardware skills and gain more hands-on experience in cutting-edge RF and microwave systems. Though working in the industry, I would like to stay close to the academic world. I keep on the fellowship project as a hobby in my spare time. I am working as part time Adjunct Research Associate at Texas Tech. I was a TPC member for the IEEE Wireless and Microwave Technology Conference (WAMICON) in 2014. From October 2013, I have been serving as Area Editor for the International Journal of Electronics and Communications (Elsevier). My long-term career plan is to go back to the academia so that I can combine my research expertise and the industrial experience to dig deeper into the fascinating microwave world.