# Dr. Sungkyun Lim

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**Education:**
Ph.D. in Electrical and Computer Engineering, The University of Texas at Austin
M.S. in Electrical and Computer Engineering, The University of Texas at Austin
B.S. in Electrical and Computer Engineering, Hanyang University, Seoul, Korea
B.S. in Mathematics, Hanyang University, Seoul, Korea

**Professional Experience:**
*Aug. 2015 – Present* Associate Professor, Department of Mechanical & Electrical Engineering, Georgia Southern University, Statesboro, GA.
*Aug. 2011 – Jul. 2015* Assistant Professor, Department of Mechanical & Electrical Engineering, Georgia Southern University, Statesboro, GA.
*Aug. 2007 – Jul. 2011* Assistant Professor, Hawaii Center for Advanced Communications, College of Engineering, University of Hawaii at Manoa, Honolulu, HI.

**Areas of Expertise:**
Analysis and design of antennas for wireless communications, Electrically small antennas, Supergain arrays, RFID, Wireless sensors, Optimization methods, Metamaterials, Antennas for mobile phones, GPS/GNSS antennas, Propagation modeling, Wireless energy harvest.

**Teaching Interests:**
Antennas for wireless communication, Electromagnetic fields, Signal processing, Communication systems, Radars.

**Research Interests:**
Analysis and design of antennas for wireless communications, Electrically small antennas, Supergain arrays, RFID, Wireless sensors, Optimization methods, Metamaterials, Antennas for mobile phones, GPS/GNSS antennas, Propagation modeling, Wireless energy harvest.

**Recent Journal Publications:**
J. Yu, Y. Le, and S. Lim, “Design of a dual-band, electrically small, parasitic array antenna," IEEE Antennas and Wireless Propagation Letters, vol.13, pp. 1453-1456, 2014.

J. Yu and S. Lim, “Design of a printable, compact parasitic array with dual notches,” Progress In Electromagnetics Research C, vol. 41, pp.1-12, 2013.

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H. Ryu, G. Jung, D. Ju, S. Lim, and J. Woo, “An electrically small spherical UHF RFID tag antenna with quasi-isotropic patterns for wireless sensor networks,” IEEE Antennas and Wireless Propagation Letters, vol. 9, pp. 60-62, 2010.

S. Lim and H. Ling, “Comparing Electrically Small Folded Conical and Spherical Helix Antennas Based on a Genetic Algorithm Optimization,” Journal of ElectroMagnetic Waves and Applications, vol. 23, no. 11-12, pp. 1585-1593, 2009.

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S. Lim, “Design of a multi-directional, high gain, compact Yagi antenna,” IEEE Antennas and Wireless Propagation Letters, vol. 8, pp. 418-420, 2009.

S. Lim and M. F. Iskander, “Design of a dual-band, compact Yagi antenna over an EBG ground plane,” IEEE Antennas and Wireless Propagation Letters, vol. 8, pp. 88-91, 2009.

H. Ryu, S. Lim, and J. Woo, “Design of electrically small, folded monopole antenna using C-Shaped meander for active 433.92MHz RFID tag in metallic container application,” IEE Electronics Letters, vol. 44, no.25, pp. 1445-1447, Dec. 2008.

Z. Yun, S. Lim, and M. F. Iskander, “An integrated method of ray tracing and genetic algorithm for optimized coverage in indoor wireless networks,” IEEE Antennas and Wireless Propagation Letters, vol. 7, pp. 145-148, 2008.

S. Lim and H. Ling, “Design of electrically small, pattern reconfigurable Yagi antenna,” IEE Electronics Letters, vol. 43, no. 24, pp. 1326-1327, Nov. 2007.

S. Lim and H. Ling, “Printable Yagi antenna with closely spaced elements,” Microwave and Optical Technology Letters, vol. 49, no. 9, pp. 2106-2109, Sep. 2007.

S. Lim and H. Ling, “Design of electrically small Yagi antenna,” IEE Electronics Letters, vol. 43, no. 5, pp. 3-4, Mar. 2007.

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S. Lim and H. Ling, “Design of thin, efficient, electrically small antenna using multiple foldings,” IEE Electronics Letters, vol. 42, no. 16, pp. 895-896, Aug. 2006.

S. Lim, R. L. Rogers, and H. Ling, “A tunable electrically small antenna for ground wave transmission,” IEEE Transaction on Antennas and Propagation, vol. 54, no.2, pp. 417-421, Feb. 2006.

S. Lim, R. L. Rogers, and H. Ling, “Design of electrically small ground planes for HF ground wave transmission,” IEE Electronics Letters, vol. 41, no.18, pp. 993-994, Sep. 2005.

S. Lim, H. Choo, R. L. Rogers, and H. Ling, “Electrically small antenna for maximizing transmission into HF ground waves,” IEE Electronics Letters, vol. 40, no.22, pp. 1388-1389, Oct. 2004.

C. Ozdemir, S. Lim, and H. Ling, “A synthetic-aperture algorithm for ground-penetrating radar imaging,” Microwave and Optical Technology Letters, vol. 42, no. 5, pp. 412-414, Sep. 2004