

Dr. Saad Qayyum

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Education

- PhD (Electrical Engineering), 2019, (magna cum laude). RWTH Aachen University, Aachen, Germany. Thesis title: Micro- and millimetre-wave circuits for broadband six-port junction receivers.
- M.S. (Microelectronics Systems Design), 2007, (Pass). University of Southampton, UK. Thesis title: Class D audio amplifier for mobile-phone applications in 0.18 μm CMOS.
- BS (Computer Engineering), 2006, (distinction). COMSATS University Islamabad, Abbottabad Campus.

Experience

1: Teaching Experience:

- February 2020 to date: Working as Assistant professor in the Department of Electrical and Computer Engineering, Pak-Austria Fachhochschule: Institute of Applied Sciences and Technology.
- March 2016 to January 2020: Worked as Lecturer in Department of Electrical and Computer Engineering, COMSATS University Islamabad. Teaching experience at BS and MS levels. Courses taught: Electronics Circuit Analysis and Design, Electrical Network Analysis, Signals and Systems, Digital Signal Processing, Analysis and Design of Integrated Circuits.

2: Student Thesis Supervision Experience:

- Supervised 1 MS and 1 BS student thesis at Chair of High Frequency Electronics, RWTH Aachen University, Germany.
- Supervised 1 BS student thesis at Department of Electrical and Computer Engineering, COMSATS University Islamabad.

Awards and Distinctions

- Institute Gold and Campus Silver medals during bachelor's degree (2006)
- Fully-funded scholarship for undergraduate studies offered by the Govt. of Pakistan (2002-2006)
- Fully-funded scholarship for graduate studies offered by the Govt. of Pakistan (2006-2007)
- Fully-funded scholarship for doctoral studies offered by the Govt. of Pakistan (2013-2017)
- Student-paper finalist, IEEE Radio & Wireless Symposium 2014 & IEEE MTT-S International Microwave Symposium 2015

Selected Publications

Thirteen publications in peer-reviewed journals and conferences of international repute, citations **64**, *h*-index **5**

- S. Qayyum, R. Negra, "Analysis and Design of Distributed Power Detectors," in *IEEE Transactions on Microwave Theory & Techniques*, vol. 66, no. 9, pp. 4191-4203, September 2018. (Impact Factor: 3.75).
- M. Saeed, A. Hamed, S. Qayyum, Z. Wang, M. Shaygan, D. Neumaier, and R. Negra, "0.15mm², DC-70GHz, Graphene-Based Power Detector with Improved Sensitivity and Dynamic Range" in *IEEE MTT-S International Microwave Symposium Digest*, Philadelphia, PA, USA, June 2018
- S. Qayyum, R. Negra, "0.8 mW, 0.1-110 GHz RF power detector with 6 GHz video bandwidth for multigigabit software defined radios", in *IEEE MTT-S International Microwave Symposium Digest*, Honolulu, HI, USA, June 2017
- M-D. Wei, S. Qayyum, R. Negra, "0.01 GHz to 110 GHz distributed common-gate power detector in standard CMOS 65 nm technology", in *IEEE MTT-S International Microwave Symposium Digest*, Honolulu, HI, USA, June 2017
- M. Tarar, T. Buecher, S. Qayyum, R. Negra, "Efficient 2-16 GHz flat-gain stacked distributed Power Amplifier in 0.13 μm CMOS using uniform distributed topology", in *IEEE MTT-S International Microwave Symposium Digest*, Honolulu, HI, USA, June 2017
- M-D. Wei, S. Qayyum, R. Negra, "High sensitivity tunable power detector", in *IEEE MTT-S International Microwave Symposium Digest*, San Francisco, CA, USA, May 2016
- S. Qayyum, Y. Chen, M-D. Wei, R. Negra, "Wideband, high data-rate, six-port direct-conversion receiver with improved output matching and sensitivity", in *IEEE MTT-S International Microwave Symposium Digest*, Phoenix, AZ, USA, May 2015