
Ren Li



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Professional Summary

Ultra-low power integrated circuits and systems; MEMS IC design and fabrication; Novel devices for next generation computing.

Education

PHD IN KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY(KAUST), SAUDI ARABIA
– ELECTRICAL ENGINEERING (ELECTROPHYSICS TRACK), 2015-2019 (EXPECTED)

GPA: 3.83/4

M.SC. IN NANYANG TECHNOLOGICAL UNIVERSITY (NTU), SINGAPORE
– POWER ENGINEERING, 2014-2015

GPA: 4.95/5

B.SC. IN NORTH CHINA ELECTRIC POWER UNIVERSITY(BEIJING), CHINA
– ELECTRICAL ENGINEERING AND ITS AUTOMATION (ADVANCED CLASS), 2010-2014

GPA: 81.8/100

Scholarship and Awards

- Oct/2018: Create the Future Design Contest Honorable Mention (Electronics/Sensors/IoT Category) & Top 100 Entries, Sponsored by COMSOL, Mouser Electronics, Analog Devices and Intel
 - May/2018: Enrichment in the Spring ePoster Competition "Academic and Research" Winner, KAUST, Saudi Arabia
 - Mar/2018: Institute of Engineering and Technology (IET) "Present Around The World" Competition Winner, KAUST, Saudi Arabia
 - Mar/2018: 1st International MEMS design contest Runner-up, organized by The Cadence Academic Network, X-FAB, Coventor, and Reutlingen University, Germany
 - Feb/2017: Middle East Electricity Exhibition "Future Generation" Postgraduate Student Competition Official Judge's Choice Award Winner & People's Choice Award Runner-up, UAE
 - Nov/2016: Falling Walls Lab Berlin Finalist, Young Innovator of the Year, Germany ([Link to the presentation](#))
 - Sep/2016: Falling Walls Lab KAUST Winner, KAUST, Saudi Arabia ([Link to the presentation](#))
 - Aug/2015~present: KAUST Fellowship scholarship, KAUST, Saudi Arabia
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- Jul/2015: Professional Engineers Board Gold Medal, Singapore
- Nov/2012: Outstanding Scholarship for Literature and Art Activities, North China Electric Power University, China

Selected Publications

R. Li, R. Naous, H. Fariborzi and K. N. Salama, "Approximate Computing with Stochastic Transistors' Voltage Over-scaling," in *IEEE Access*. doi: 10.1109/ACCESS.2018.2889747

R. Li, H. Fariborzi, "Ultra-Low Power Data Converters with BEOL NEM Relays" in IEEE 61st International Midwest Symposium on Circuits and Systems (MWSCAS), 2018

M. A. A. Hafiz, **R. Li**, M. I. Younis, H. Fariborzi, "A parity checker circuit based on microelectromechanical resonator logic elements", *Phys. Lett. A*, 2017, vol. 381, no. 9, pp. 843-848

S. Ahmed, S. Ilyas, N. Jaber, X. Zou, **R. Li**, M.I. Younis and H. Fariborzi, "Design and Demonstration of a Compact Full Adder Using Micro-Beam Resonators" in IEEE 61st International Midwest Symposium on Circuits and Systems (MWSCAS), 2018

Academic Experiences and Memberships

- Aug/2018: 61st IEEE International Midwest Symposium on Circuits and Systems (MWSCAS), Canada
- May/2018: Cadence Users Conference CNDLive EMEA 2018, Munich, Germany
- Jul/2017~present: IEEE KAUST Chapter Committee Member, KAUST, Saudi Arabia
- Feb/2017: KAUST-NSF Conference on Interactive Electronics 2017, KAUST, Saudi Arabia
- Feb/2017: Middle East Electricity Exhibition "Future Generation" Competition, UAE
- Nov/2016: Falling Walls Conference, Berlin, Germany
- Apr/2016: Virtuoso Design Environment Front-Back End & RF Workshops, KAUST, Saudi Arabia

Technical Skills

Electrical Engineering Softwares

Cadence Virtuoso (certificated)

Matlab

Covetor MEMS+

Advanced Design Systems (ADS)

Synopsys Sentaurus

Ansys HFSS

COMSOL Multiphysics (certificated)

Solidworks

Tanner L-Edit

Klayout

Experiment Tools

Network Analyzer

Probe Station

LPKF PCB Fabrication

Starlab Systems Antenna Measurement

Vibrating Sample Magnetometer (VSM)

Nano Fabrication Laboratory Qualifications

Lithography: Photolithography: EVG®6200; E-Beam Lithography System: Crestec; JEOL

Metrology: Profilometer, Ellipsometer, Reflectometer, ZYGO;

Deposition and Plasma Etch: E-Beam Evaporator, sputter; OXFORD PECVD System, LPCVD; RIE, DRIE Tools

Misc Tools: Contact Aligner, Laser Cutter

Electron Microscope: Quanta 600 3D SEM, Helios 400S FIB-SEM

Non-academic Experiences and Certificates

- Mar/2018: The Leadership Challenge Workshop, organized by The Leadership Challenge-A Wiley Brand, Saudi Arabia
- Mar/2018: Leadership Development, organized by Office of Professional Development, KAUST, Saudi Arabia
- Mar/2018: KAUST Triathlon, participated in a team of three, KAUST, Saudi Arabia
- Oct/2017: STEAM challenge, organized by Innovation Center, KAUST, Saudi Arabia
- Aug/2016 ~ Oct/2017: Resident Assistant, KAUST, Saudi Arabia
- Aug/2016: Orientation Leader and awarded as an outstanding orientation leader by Graduate Affairs, KAUST, Saudi Arabia
- Mar/2013: "Warm Your Winter" volunteering event, organized by Beijing Municipal Committee and Beijing Volunteer Foundation, Beijing, China
- Jul/2012: The Silver Diploma Level IX of the 7th World Choir Game, Cincinnati, USA
- Oct/2011: The Silver Prize of Chorus Competition Festival, Xi'an, China
- Mar/2011: Advanced Individual of Social Practice, granted by North China Electric Power University, Beijing, China

Languages

English: Fluent;

Chinese (Pu Tong Hua): Native speaker.