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Curriculum Vitae

[Feb. 2018 – Present] Assistant Professor, Electrical and Computer Engineering, UNIST

[Sep. 2017 – Jan. 2018] Research Professor, Metamaterial Electronic Device Research Center, Hongik University

[Sep. 2015 – Aug. 2017] Research Professor, Research Institute of Science and Technology, Hongik University

Academic Credential

[Aug. 2015] Ph.D., Electronics, Computer and Communication Engineering, Hanyang University

[Feb. 2012] M.S., Electronics, Information and Communication Engineering, Hongik University

[Feb. 2010] B.S., Electronic and Electrical Engineering, Hongik University

Awards/Honors/Memberships

[Nov 2019] Young Researcher Award by Korean Institute of Electromagnetic Engineering and Science (젊은연구자상, 한국전자파학회)

[Aug. 2016] Young Scientist Award (YSA) at URSI Asia-Pacific Radio Science Conference 2016 (젊은과학자상, URSI)

[Jan. 2020 – Present] Board Member of Academic-II Affair, Korean Institute of Electromagnetic Engineering and Science (학술2분과 이사, 한국전자파학회)

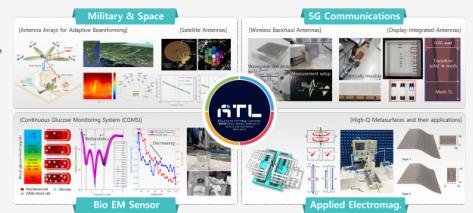
[May 2018 – Present] Associate Editor ICT Express

Antenna Technology Laboratory (ATL) 안테나기술연구실

ATL's principal areas of research are in the design and analysis of antennas, antenna arrays, and RF hardware for adaptive beamforming, such as direction of arrival estimation, interference mitigation, and radar. Our research topics are associated with 5G wireless communications, satellite navigation systems, satellite communications, ground and aeronautic vehicles, and mobile devices, which covers both civil and military applications.

[Recent interests] We are actively trying to expand our research

boundaries for more advanced technologies: surface electromagnetics, display-integrated antennas, and microwave sensing for health-care systems.



관심분야

Antennas, Antenna arrays, 5G Communications, metasurfaces, display-integrated antennas

희망분야

B5G Communications, Bio EM sensing, surface electromagnetics, antennas for military use

Research Keywords and Topics

- Design of small antennas and antenna arrays (소형 안테나 및 배열안테나 설계)
- Phased and time-modulated array antennas (위상배열 및 시간변조 배열안테나)
- Bio EM sensors and metasurfaces (바이오 EM 센서 및 메타표면)
- Display-integrated antennas (디스플레이 집적 안테나)

Research Publications

- [1] Thi Hai-Yen Nguyen, Hoon Yeub Jeong, Young Chul Jun, and Gangil Byun*, "Geometry-Independent Excitation of Dark Modes Using Dipole Moment Transitions," IEEE Trans. Antennas Propag., Accepted (Early Access), Apr. 2020. DOI: 10.1109/TAP.2020.2983770
- [2] Hoon Yeub Jeong, Yeonsoo Lim, Soo-Chan An, Thi Hai-Yen Nguyen, Gangil Byun*, and Young Chul Jun*, "Tunable Resonance and Phase Vortices in Kirigami Fano-Resonant Metamaterials," Adv. Mater. Technol., 2000234, June 2020. DOI: 10.1002/admt.202000234
- [3] Ming Huang, Chunhui Wang, Le Quan, Thi Hai-Yen Nguyen, Hanyang Zhang, Yi Jiang, Gangil Byun, and Rodney S. Ruoff*, "CVD Growth of Porous Graphene Foam in Film Form," Matter, Accepted, 2020.

Patents

- [1] "무선 주파수 소자 및 이를 포함하는 표시 장치 (RADIO FREQUENCY DEVICE AND DISPLAY DEVICE HAVING THE SAME)," 김재경, 이성룡, 응우옌티두옌, 허진명, 변강일, Korean Patent Application, no. 10-2020-0032990. Filed on Mar. 18, 2020.
- [2] "전자장치 (Electronic device)," 성은진, 응우옌티두옌, 김재경, 박원상, 이성룡, 허진명, 변강일, Korean Patent Application, no. 10-2020-0048319. Filed on April 21 2020.