Professor Kyoungsik Yu

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Kyoungsik Yu is a Professor in the School of Electrical Engineering and the Graduate School of Quantum Science and Technology at the Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea, where he has been on the faculty since 2010. He received the B.S. degree in Electrical Engineering from Seoul National University in 1999, and the M.S. and Ph.D. degrees in Electrical Engineering from Stanford University in 2001 and 2004, respectively. Prior to joining KAIST, he was a Researcher at the Korea Electrical Engineering and Science Research Institute and a Postdoctoral Researcher at the University of California, Berkeley.

His research focuses on micro- and nanophotonics, optical MEMS, and photonic integrated circuits, with applications in optical signal processing, communications, and sensing, as well as emerging quantum and classical photonic systems. By combining photonic device engineering with micro-/nanofabrication and electromechanical techniques, his group develops compact, low-power, and reconfigurable integrated photonic building blocks, including MEMS-tunable elements that enable scalable programmability. These efforts aim to provide new ways to manipulate optical signals across temporal, spatial, and spectral domains, and to translate fundamental device innovations into system-level impact. He has published over 100 SCI-indexed journal papers with more than 7,000 citations. He has received several honors including the Harim Photonics Award (Optical Society of Korea, 2026) and KAIST awards for research excellence.