

SANMUN KIM

2232 E3-2, KAIST, 291 Daehak-ro, Yuseong-gu, Daejeon 34141, Korea
sk902@cantab.ac.uk

EDUCATION

University of Cambridge (B.A. & M. Sci.)

October 2016 - July 2020

Physics Tripos III (Class I (76))
Physics Tripos II (Class 2.1(68))
Physics Tripos IB (Class I (75))
Mathematics Tripos IA (Class 2.1 (68))

PUBLICATION

J.Park, S Kim, J. Lee, S. G. Menabde, and M. S. Jang, Ultimate Light Trapping in a Free-form Plasmonic Waveguide, Physical Review Applied 12, 024030 (2019) ([link](#))

RESEARCH EXPERIENCES

Military research personnel, KAIST

August 2020 - August 2023

Working as a researcher in nanophotonics laboratory in KAIST. I design and build interferometer systems for mid-IR metasurface measurements.

Part III Physics research project, Cambridge Univ.

2019 - 2020

Investigated the activity of Carbon Nanodots using hollow-core photonic crystal fibre.
(Supervisor: Dr. Tijmen Euser)

Research Internship, KAIST

Summer 2018 & Summer 2019

Worked on the reproduction of Near-Field Scanning Optical Microscopy image of 3D graphene structure with COMSOL Multiphysics. Also worked on the optimisation of 2D Metal-Insulator-Metal waveguide using genetic algorithm. See publications.
(Supervisor: Prof. Min Seok Jang)

Summer School, CAPP, Daejeon

Summer, 2017

Studied Superconducting Quantum Interference Device (SQUID). Measured the gain of newly developed microstrip amplifier. (Supervisor: Dr. Andrei Matlashov)

SCHOLARSHIPS

Korea Presidential Science Scholarship

2016 - 2020

50,000 USD/year

TECHNICAL SKILLS

Programming Languages
Software & Tools

MATLAB, Python
COMSOL Multiphysics, FDTD(elementary), LaTeX