

SUYEON CHOI

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EDUCATION

Stanford University

Ph.D. in Electrical Engineering

Sep 2020 –

Master of Science in Electrical Engineering

Sep 2019 –

Seoul National University

Mar 2013 – Feb 2019

Bachelor of Science in Electrical and Computer Engineering, summa cum laude

2-year absence to fulfill military duty (Aug 2015 – May 2017)

Seoul Science High School

Mar 2010 – Feb 2012

The school for gifted students

PUBLICATIONS

D. Yoo, S. Lee, Y. Jo, J. Cho, **S. Choi**, and B. Lee “Volumetric Head-Mounted Display with Locally Adaptive Focal Blocks”, IEEE Transactions on Visualization and Computer Graphics; *under review*;

Y. Jo, S. Lee, D. Yoo, **S. Choi**, D. Kim, and B. Lee, “Tomographic Projector: Large Scale Volumetric Display with Uniform Viewing Experiences,” ACM Trans. Graph. **36**(8), 215, (SIGGRAPH Asia 2019);

S. Choi, S. Lee, Y. Jo, D. Yoo, D. Kim, and B. Lee, “Optimal binary representation via non-convex optimization on tomographic displays,” Opt. Express **27**(17), 24362-24381 (2019);

D. Yoo, S. Lee, Y. Jo, J. Cho, **S. Choi**, and B. Lee, “15 focal planes head-mounted display using LED array backlight,” Proc. SPIE 11040, Optical Design Challenge 2019, (SPIE Photonics West 2019);

RESEARCH EXPERIENCE

Computational Imaging Lab, Stanford University

Graduate Research Assistant (Advisor : Professor Gordon Wetzstein)

Sep 2019 –

★ Working on a computational display project

Optical Engineering and Quantum Electronics Laboratory, Seoul National University

Research Assistant Intern (Advisor : Professor Byoungcho Lee)

2017, Jun 2018 – Jul 2019

Virtual Machine & Optimization Lab, Seoul National University

Undergraduate Research Project (Advisor : Professor Soo-Mook Moon)

Jan 2018 – Jun 2018

WORK EXPERIENCE

Cyber Bureau, Korean National Police Agency

Mar 2016 – May 2017

Cybercrime Investigation Planning Team

Sway Mobile, Inc

Jan 2015 – Feb 2015

Software Internship

Samsung SDS

Aug 2013 – Aug 2015

Samsung SDS sGen Club, Software Internship Program

AWARDS AND SCHOLARSHIPS

Grand Prize in Blockchain technology contest, <i>LINE X Korean Institute of Information Sci. and Eng.</i>	2018
\$3,000 as awards, participated with <i>Gitchain</i> project.	
Bronze Medal in the University Students Mathematics Contest, <i>the Korean Mathematical Society</i>	2016
Silver Medal in the International Physics Olympiad (IPhO)	2012
Gold Medal in both the Korean Mathematical/Physics Olympiad	2009/2008 respectively
Kwanjeong Scholarship , <i>Kwanjeong Foundation</i>	2019 – 2021
Scholarship for students in Korea to study abroad at graduate school (\$30,000 / year).	
Government Scholarship for Overseas Study , <i>Korea government</i>	2019 – 2021
Scholarship for students in Korea to study abroad at graduate school (additional \$10,000 / year).	
Presidential Science Scholarship , <i>Korea Student Aid Foundation</i>	2013 – 2018
Full tuition and additional stipends (\$5,000 / year) for academic excellence.	
Youth Scholarship , <i>Woongjin Foundation</i>	2012
Yongwoon Ph.D. Scholarship , <i>Yongwoon Foundation</i>	2019
Declined due to the period overlap with Kwanjeong and NIIDE Scholarships	

TEACHING

Undergraduate Teaching Assistant	
Digital Systems Design and Experiments, <i>College of Engineering, Seoul National University</i>	Autumn 2018
Introduction to Electromagnetism, <i>College of Engineering, Seoul National University</i>	Autumn 2017
Introduction to Circuit Theory and Laboratory, <i>College of Engineering, Seoul National University</i>	Spring 2015
Digital Logic Design and Lab, <i>College of Engineering, Seoul National University</i>	Autumn 2014
Tutor	
Basic Physics, <i>Dept. of Physics, Seoul National University</i>	Autumn 2014, Spring 2015, 2018

EXTRA CURRICULAR ACTIVITIES

Qualcomm IT Tour , <i>Qualcomm, San Diego</i>	Aug 2017
Crime Prevention Police Company , <i>Seoul Eunpyeong Police Station</i>	Sep 2015 – Mar 2016
Seoul National University Children's Hospital , <i>SNUH</i>	Jul 2013 – Jul 2015
Freshman Mentor , <i>Dept. of ECE, SNU</i>	2014

TECHNICAL STRENGTHS

Programming Languages	Proficient : MATLAB, Python, Javascript Intermediate : C++, Java, Verilog, PHP, MySQL
Tools	Proficient : \LaTeX , git, LabVIEW Intermediate : Xilinx Vivado, COMSOL(EM wave analysis), Arduino
Deep Learning Frameworks	PyTorch, TensorFlow, Keras