

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 2013

The school for gifted students

PUBLICATIONS

[5] Y. Peng, **S. Choi**, N. Padmanaban, and G. Wetzstein “Neural Holography: Real-time Holographic Image Synthesis with Camera-in-the-loop Training”, *ACM Trans. Graph.* **39**(6), (SIGGRAPH Asia 2020, to appear);

[4] 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*, to appear;

[3] 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.* **38**(6), 215, (SIGGRAPH Asia 2019);

[2] **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);

[1] 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 –

Optical Engineering and Quantum Electronics Laboratory, Seoul National University

Research Assistant Intern (Advisor : Professor Byoung-ho 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

NVIDIA Research

New Experience Team

Jul 2020 – Sep 2020

Cyber Bureau, Korean National Police Agency

Cybercrime Investigation Planning Team

Mar 2016 – May 2017

Sway Mobile, Inc

Software Internship

Jan 2015 – Feb 2015

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 – 2024
Scholarship for students in Korea to study abroad at graduate school.	
Government Scholarship for Overseas Study , <i>Korea government</i>	2019 – 2021
Scholarship for students in Korea to study abroad at graduate school.	
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>	Fall 2018
Introduction to Electromagnetism, <i>College of Engineering, Seoul National University</i>	Fall 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>	Fall 2014

Tutor

Basic Physics, <i>Dept. of Physics, Seoul National University</i>	Fall 2014, Spring 2015, 2018
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SERVICES

Reviewer , <i>OSA Optics Express</i>	2019 –
Reviewer , <i>IEEE ISMAR</i>	2020
Student Member , <i>ACM SIGGRAPH</i>	2020 –
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