

## EDUCATION

Future	<b>Washington University in St. Louis (WashU)</b> Incoming PhD Candidate in Computer Science (Estimated graduation: 05/2029)	St. Louis, MO
2022 - 2024	<b>WashU</b> BS Candidate in Computer Science GPA: 4.0/4.0	St. Louis, MO

## RESEARCH EXPERIENCES

May 2024 - Aug 2024	<b>Los Alamos National Laboratory</b> Research Intern - Advisor: Dr. Brendt Wohlberg	Los Alamos, NM
Jul 2022 - May 2024	<b>Computational Imaging Group (CIG) at WashU</b> Undergrad. Researcher & 2023 Summer Research Intern - Advisor: Prof. Ulugbek S. Kamilov	St. Louis, MO
Jun 2020 - Dec 2021	<b>Intelligent and Interaction Lab at Kookmin University</b> Undergrad. Researcher & Lab Leader - Advisor: Prof. Sang Hun Lee	Seoul, South Korea

## PUBLICATIONS

### PREPRINT

1. **Chicago Park\***, Weijie Gan\*, Zihao Zhou, Yuyang Hu, Zhixin Sun and Ulugbek S. Kamilov. "A Structured Pruning Algorithm for Model-based Deep Learning," *arXiv preprint*, 2023.
  - TLTR: SPADE presents the approach combining network pruning and fine-tuning to enhance the efficiency of model-based deep learning for imaging inverse problems.

### CONFERENCE PAPERS

2. **Chicago Park\***, Shirin Shoushtari\*, Weijie Gan, and Ulugbek S. Kamilov. "Convergence of Nonconvex PnP-ADMM with MMSE Denoisers," *2023 IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP), 2023*, in press. **[Best Student Paper Award Finalist]**
  - TLTR: Paper proposes theoretical and experimental evidence for the effective use of expansive CNN denoisers in the PnP-ADMM framework to solve convex or non-convex imaging inverse problems.

### ABSTRACT PAPERS POSTER PRESENTATIONS

3. **Young Il Park**, Hyun Jae Lee and Sang Hun Lee\*, "Estimation of Lateral Distances between Vehicles and Lane Markers Using Sensor Fusion and Deep Neural Networks," *The Korean Society of Automotive Engineers 2021 annual autumn conference and exhibition*, Yeosu, Nov 17-20, 2021.
  - TLTR: Paper proposes a new metric, lateral distance, not previously focused on, and introduces a sensor fusion technique to measure it for autonomous vehicles.

## HONORS AND AWARDS

Apr 2024	<b>Ernest. D Weiss Senior Award</b> Issued by Department of Computer Science and Engineering, WashU	St. Louis, MO
2024 - 2028	<b>2023 Dean's Select PhD Fellowship</b> Issued by WashU	St. Louis, MO
Dec 2023	<b>Student Travel Award</b> Issued by 2023 IEEE CAMSAP	Hacienda Belén, Costa Rica
Dec 2023	<b>Best Student Paper Award Finalist</b> Issued by 2023 IEEE CAMSAP	Hacienda Belén, Costa Rica
Aug 2022 - May 2023	<b>Dean's List</b> Issued by WashU	St. Louis, MO
2021	<b>Honorable Judge Award, 9th Cloud Programming World Cup</b> Issued by Forum 8	Tokyo, Japan
2020 - 2022	<b>Full Silla Scholarship</b> Issued by Sillaholdings	Seoul, South Korea

## PROFESSIONAL SOCIETIES

Apr 2024 - present	<b><i>Tau Beta Pi</i> Engineering Honor Society</b>
Oct 2023 - present	<b>Institute of Electrical and Electronics Engineers(IEEE) Student Member</b>

## TEACHING EXPERIENCES

Jan 2023 - Dec 2023	<b>CSE 247 Data Structure and Algorithm, WashU</b> Teaching Assistant	St. Louis, MO
Sep 2021 - Dec 2021	<b>MyLab Study II, Project-based Course, Kookmin University</b> Assistant Instructor	Seoul, South Korea
Mar 2021 - Jun 2021	<b>Interdisciplinary Capstone Design I, Project-based Course, Kookmin University</b> Assistant Instructor	Seoul, South Korea

## PROGRAMMING ABILITIES

Languages	<b>Python (PyTorch and TensorFlow), Java, C++</b>
Work setups	<b>Server Cluster, Ubuntu</b>

## MILITARY SERVICE

Feb 2017 - Nov 2018 **Republic of Korea Army**  
Sergeant & Company Signaller & Barber

Gangwon, South Korea

APRIL 24, 2024