Euyoung (Joseph) Kim

shreka116@gmail.com | [Blog](#) | [Google Scholar](#)

Education

Seoul National University   *Seoul, Korea*
M.S AND PH.D CANDIDATE IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE, cGPA: 3.6/4.3   *Sep. 2014 – Aug. 2023*
- **Advisor**: Prof. Kyoung Mu Lee

Purdue University   *West Lafayette, IN, USA*
BASc in ELECTRICAL ENGINEERING, cGPA: 3.75/4.0   *Aug. 2008 – Jun. 2014*

Research Interests

Computer Vision and Machine Learning
medical image, industrial application, anomaly detection, generative model

Publications

Improving Abnormality Detection in Chest X-ray with Generative Models and Anatomical Priors *in preparation (JBHI)*
EUYOUNG KIM, SOOCHAHN LEE, KYOUNG MU LEE

Disentangled Contrastive Learning from Synthetic Matching Pairs for   *MedIA 2023 submission*
Targeted Chest X-ray Generation
EUYOUNG KIM, SOOCHAHN LEE, KYOUNG MU LEE

Abnormality Detection in Chest X-Ray via Residual-Saliency from Normal Generation   *ACCESS 2023*
EUYOUNG KIM, SOOCHAHN LEE, KYOUNG MU LEE

Triplanar Convolution with Shared 2D Kernels for 3D Classification and Shape Retrieval   *CVIU 2020*
EUYOUNG KIM, SEUNG YEON SHIN, SOOCHAHN LEE, KYONG JOON LEE, KYOUNG HO LEE, KYOUNG MU LEE

SPNet: Deep 3D Object Classification and Retrieval using Stereographic Projection   *ACCV 2018*
MOHSEN YAVARTANOO, EUYOUNG KIM, KYOUNG MU LEE

Scale-change aware locally adaptive optical flow   *APSIPA 2016*
EUYOUNG KIM, KYOUNG MU LEE

Projects

Product Defect Generation
COLLABORATION WITH COGNEX   *Seoul, Korea*
                                                                                     Jan. 2022 – Aug. 2023

Combined Deep Learning of Medical Images and Radiology Reports for Automatic Image Analysis

SUPPORTED BY THE NATIONAL RESEARCH FOUNDATION OF KOREA (NRF)

Seoul, Korea
Apr. 2019 – Feb.2020

Computer Aided Surgical Diagnosis for Appendicitis

SUPPORTED BY THE INTERDISCIPLINARY RESEARCH INITIATIVES PROGRAM FROM COLLEGE OF ENGINEERING AND MEDICINE, SEOUL NAITONAL UNIVERSITY

Seoul, Korea
Apr. 2017 – Mar.2019

Experience

Purdue University
West Lafayette, IN, USA

VERTICALLY INEGRATED PROJECT
Aug. 2013 – Dec. 2013

- Developing a human motion capture application using Kinect for Android

Purdue University
West Lafayette, IN, USA

REASEARCH INTERN
May. 2013 – Aug. 2013

- Developing an OCR application for Android and iOS
- Collaboration with HP

Purdue University
West Lafayette, IN, USA

VERTICALLY INEGRATED PROJECT
Aug. 2012 – Dec. 2012

- Developing an embedded device for monitoring and controlling the CAN bus on agricultural equipment

Teaching Experience

Seoul National University
Seoul, Korea

TEACHING ASSISTANT
Mar. 2018 – July. 2018

- New Trends in Computer Vision

Seoul National University
Seoul, Korea

TEACHING ASSISTANT
Mar. 2017 – July. 2017

- Introduction to Computer Vision

Seoul National University
Seoul, Korea

TEACHING ASSISTANT
Mar. 2015 – July. 2015

- Signal Processing

Purdue University
West Lafayette, IN, USA

UNDERGRADUATE LAB ASSISTANT
Aug. 2013 – May. 2014

- First-year electrical engineering course

Republic of Korea Army
Gangwon, Korea

SERGEANT (SIGNAL CORPSMAN / ADMINISTRATIVE CLERK)
Aug. 2009 – Jun. 2011

- The 2nd Infantry Division

Activities and Honors

AMERICAN-KOREAN SCIENTISTS AND ENGINEERS ASSOCIATION (KSEA) – PROJECT MANAGER	*2012*
ECE STUDENT SOCEITY	*2012 – present*
THE NATIONAL SOCIETY OF COLLEGEIATE SCHOLARS (NSCS)	*2012 – present*
DEAN's LIST	*2011, 2012, 2013, 2014*
SEMESTER HONORS	*2011, 2012, 2013, 2014*
LITTLE SPARTK (PURDUE KOREAN CHRISTIAN CLUB)	*2008 – 2014*

Academic Services

Conference Reviewer

CVPR, ICCV, ECCV

Skills

Technical

- Python, C/C++, MATLAB, Pytorch, LATEX

Language

- Korean (Fluent), English (Fluent), Japanese (Intermediate)