

About Me

- Name: 박지호
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Education

- B.S. of Electrical and Electronic Engineering, Yonsei University
2nd semester of 3rd-year, GPA 4.03/4.3 (Major 4.08/4.3) ([transcript](#))
(Mar. 2019 ~ present)

Projects

- [OOD Detection Research Project] Exploring the generative model for OOD Detection, with Hierarchical Self-Conditioned AutoEncoder
(Jun.2023) [report link](#)
- [ControlNet Web Application Project] Sketch&Prompt-to-Image using ControlNet
(Apr.2023 ~ May.2023) [github link](#)
- Virtual hand drawing simulator (Unity, Python communication project)
(Nov. 2022 ~ Dec. 2022) [github link](#)
- Cloth recommendation based on segmentation and data embedding
(Mar. 2022 ~ Apr. 2022) [github link](#)

Industry-academia cooperation projects

- Highschool students' mathematical problem solving data clustering and analysis
in Datasciencelab(Data science society in Yonsei), with Mathflat, freewheelin Inc.
(Oct. 2022 ~ Nov. 2022)
- Service usage prediction and analysis
in CSE-URP Yonsei, with JJAANN Co.
(Jul. 2022 ~ Aug. 2022)
- Virtual face similarity modeling
in Datasciencelab(Data science society in Yonsei), with MetaSoul, Uaround Co., Ltd
(May. 2022 ~ June. 2022)

Internship

- CSE(Computational Science and Engineering)-URP Yonsei University
(Jul. 2022 ~ Aug. 2022)

Military Service

- Korean Army, Honorable Discharge
(Sep. 2020 ~ Mar. 2022)

Scholarship

- Yonsei Veritas(High-academic Performers) Scholarship
(2022-2, 2023-1)

Studied Paper

- Computer Vision

[VGGNet] Very Deep Convolutional Networks for Large-Scale Image Recognition
[vggnet review](#)

[ResNet] Deep Residual Learning for Image Recognition [resnet review](#)

[SpatialTransformer] Spatial Transformer Networks [spatialtransformer review](#)

[FSRCNN] Accelerating the Super-Resolution Convolutional Neural Network [fsrcnn review](#)

[FCN] Fully Convolutional Networks for Semantic Segmentation [fcn review](#)

[DilatedConv] Multi-Scale Context Aggregation by Dilated Convolutions [dilatedconv review](#)

[YOLO] You Only Look Once: Unified, Real-Time Object Detection [yolo review](#)

[Style Transfer] Image Style Transfer Using Convolutional Neural Networks
[styletransfer review](#)

Perceptual Losses for Real-Time Style Transfer and Super-Resolution [perceptualloss review](#)

Grad-CAM: Visual Explanations from Deep Networks via Gradient-based Localization
[gradcam review](#)

- Generative

[GAN] Generative Adversarial Nets [gan review](#)

[cGAN] Conditional Generative Adversarial Nets [cgan review](#)

[pix2pix] Image-to-Image Translation with Conditional Adversarial Networks

[CycleGAN] Unpaired Image-to-Image Translation using Cycle-Consistent Adversarial Networks [cyclegan ppt](#)

[DefenseGAN] Protecting Classifiers against Adversarial Attacks using Generative Models

[DallE1] Zero-Shot Text-to-Image Generation

- Diffusion

Understanding Diffusion Models: A Unified Perspective [Diffusion Presentation](#)

[DDPM] Denoising Diffusion Probabilistic Models

[Latent Diffusion] High-Resolution Image Synthesis with Latent Diffusion Models

[ControlNet] Adding Conditional Control to Text-to-Image Diffusion Models

- 3D

NeRF: Representing Scenes as Neural Radiance Fields for View Synthesis [nerf ppt](#)

NeuS: Learning Neural Implicit Surfaces by Volume Rendering for Multi-view Reconstruction

Neural 3D Scene Reconstruction with the Manhattan-world Assumption [ManhattanSDF ppt](#)

TensorRF: Tensorial Radiance Fields

- NLP

Empirical Evaluation of Gated Recurrent Neural Networks on Sequence Modeling [gru review](#)

Sequence to Sequence Learning with Neural Networks

Attention is all you need