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] Conditonal 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*
> Neural 3D Scene Reconstruction with the Manhattan-world Assumption ManhattanSDF_ppt
> TensoRF: 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