Junhyuk So
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EDUCATION

- **M.S/Ph.D - POSTECH (Advisor : Eunhyeok Park)**
  Department of Computer Science and Enginnering
  Pohang, Korea
  2022 - Present

- **B.S - University Of Seoul**
  Department of Electrical and Computer Engineering
  Seoul, Korea
  2018 - 2022

RESEARCH INTERESTS

- **Machine Learning**   generative model, multimodal learning
- **Efficient AI**   quantization, neural architecture search, parallel inference
- **Computer System**   GPU kernel design, neural network accelerator

PUBLICIATIONS

[·] ML/AI top-tier conference, * co-first author

CONFERENCE

2025

- **[ICCV25]** **Junhyuk So**, Junhyuk So, Juncheol Shin, Hyunho Kook, Eunhyeok Park, "Grouped Speculative Decoding for Autoregressive Image Generation", **ICCV** International Conference on Computer Vision, Oct, 2025

- **[CVPR25]** **Junhyuk So**, Jiwoong Shin, Chaeyeon Jang, Eunhyeok Park, "PCM : Picard Consistency Model for Fast Parallel Sampling of Diffusion Models", **CVPR** The IEEE/CVF Conference on Computer Vision and Pattern Recognition, June, 2025

2024

- **[ECCV24]** **Junhyuk So***, Jungwon Lee*, Eunhyeok Park, "FRDiff : Feature Reuse for Universal Training-free Acceleration of Diffusion Models", **ECCV** The 18th European Conference on Computer Vision , Oct, 2024

2023

- **[NeurIPS23]** **Junhyuk So***, Jungwon Lee*, Daehyun Ahn, Hyungjun Kim, Eunhyeok Park, "Temporal Dynamic Quantization for Diffusion Models" **NeurIPS** 37th Conference on Neural Information Processing Systems, Dec, 2023

- **[NeurIPS23]** **Junhyuk So***, Changdae Oh*, Yongtaek Lim, Hoyoon Byun, Minchul Shin, Kyungwoo Song, "Geodesic Multi-Modal Mixup for Robust Fine-Tuning" **NeurIPS** 37th Conference on Neural Information Processing Systems, Dec, 2023

- **[CVPR23]** Juncheol Shin*, **Junhyuk So***, Sein Park, Seungyeop Kang, Sungjoo Yoo, Eunhyeok Park, "NIPQ : Noise porxy based Integraded Psuedo Quantization " IEEE/CVF **CVPR** Computer Vision and Pattern Recognition Conference , June, 2023

- Eunchong Noh, **Junhyuk So**, Seunghwan Lee, "Machine-Learning based Optimal Design of a Wireless Power Transfer Coil for Battery-Powered Tram" ICPE 2023-**ECCE Asia** 11th International Conference on Power Electronics , May, 2023

2022

- Changdae Oh, Heeji Won, **Junhyuk So**, Taero Kim, Yewon Kim, Hosik Choi, Kyungwoo Song, "Learning Fair Representation via Distributional Contrastive Disentanglement" ACM **SIGKDD** International Conference on Knowledge Discovery Data Mining. July, 2022 (https://dl.acm.org/doi/10.1145/3534678.3539232)

2021

- **[CODES21]** Chanyoung Oh*, **Junhyuk So***, Sumin Kim*, Youngmin Yi, "Exploiting Activation Sparsity for Fast CNN Inference on Mobile GPUs" International Conference on Hardware/Software Codesign and System Synthesis (**CODES+ISSS**) Oct, 2021 (https://dl.acm.org/doi/abs/10.1145/3477008)

JOURNAL [SCI]

2023

- **Junhyuk So**, Yongtaek Lim, Yewon Kim, Changdae Oh, Kyungwoo Song, "Robust Contrastive Learning With Dynamic Mixed Margin" **IEEE Access** June, 2023 (https://ieeexplore.ieee.org/abstract/document/10154052)

2021

- Chanyoung Oh*, **Junhyuk So***, Sumin Kim*, Youngmin Yi, "Exploiting Activation Sparsity for Fast CNN Inference on Mobile GPUs" ACM Transactions on Embedded Computing Systems (**TECS**) Oct, 2021 (https://dl.acm.org/doi/abs/10.1145/3477008)

Academic Services

- Reviewer - NeurIPS24-25, CVPR24-25, AAAI24, ICLR25

Awards

- Participation Award in Junior Student track, Korea Software Congress, Korea (Dec. 2020)
- First Prize in Research Sharing Contest, University Of Seoul, Korea (Dec. 2020)

Talks

- Recent Topics on Image Generation Acceleration @ Squeezebits (June, 2025)

Skills

- Deep Learning, Machine Learning

- Pytorch, CUDA

- Python, C/C++, JAVA

Misc

- Homepage : https://junhyukso.github.io