Sookwan Han

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"My mission is to create a sustainable civilization by solving the challenge of inefficient workforce distribution. To this end, I aim to lead the robotics industry by developing truly intelligent, interactive and productive robots."

Education

Seoul National University   *Seoul, Korea*
B.S. in Electrical and Computer Engineering   *2020.03 - Present*
- Student Body President of SNU ECE (2022.01 - 2022.11)

Seoul Science High School   *Seoul, Korea*
Graduate   *2017.03 - 2020.02*
- Majors: Math, Physics

Research/Work Experience

Visual Computing Lab   *2022.03 - Present*
Intern
- **Advisor**: Hanbyul Joo
- **Research Area**: Human-Object Interaction
- Our research focuses on advancing machine perception by developing algorithms and models that enable machines to accurately understand and perceive the interactions between humans and objects.

VLSI Lab   *2021.09 - 2022.02*
Intern
- **Advisor**: Jaejoon Kim
- **Research Area**: Quantized/Compressed Neural Networks
- Our research focuses on quantizing and compressing neural networks, with a particular emphasis on transformers. The goal is to optimize their performance specifically for embedded devices.

Publications

CONFERENCE PROCEEDINGS

Learning Canonicalized 3D Human-Object Spatial Relations from Unbounded Synthesized Images
    Sookwan Han, Hanbyul Joo
    Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV), 2023

Chupa: Carving 3D Clothed Humans from Skinned Shape Priors using 2D Diffusion Probabilistic Models
    Byungjun Kim*, Patric Kwon*, Kwangho Lee, Myunggi Lee, Sookwan Han, Daesik Kim, Hanbyul Joo
    Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV), 2023

Honors/Awards

2023	**1st Place**,	SNU FastMRI Challenge / out of 144 teams
2023	**Expert in all fields**,	Physics Expert Certification
2021	**Grand Prize**,	Heart Disease AI Datathon / out of 169 teams
2020	**Gold Prize**,	University Mathematics Competition

Scholarships

Presidential Science Scholarship   *2020.03 - Present*
Korea Student Aid Foundation (KOSAF)
- Full scholarship for undergraduate studies and additional living expenses support

Languages

English   Professional proficiency
Korean   Native proficiency