

YINGXUAN YOU

 <https://github.com/kasvii>  <https://kasvii.github.io>

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EDUCATION

Peking University (PKU)

Beijing, China

Third-Year Master Student in Computer Science. Advisor: Prof. **Hong Liu**.

2021.09 – 2024.07

Research Topics: 3D Human Pose and Shape Estimation.

GPA: 3.91 / 4.0

Beihang University (BUAA)

Beijing, China

Bachelor of Automation Science.

2017.09 – 2021.06

Bachelor Thesis: Multimodal Semantic SLAM for Dynamic Environments.

GPA: 3.84 / 4.0

PUBLICATIONS

• Co-Evolution of Pose and Mesh for 3D Human Body Estimation from Video

Yingxuan You, Hong Liu, Ti Wang, Wenhao Li, Runwei Ding, Xia Li.

IEEE International Conference on Computer Vision (ICCV), 2023.

 [Project Page](#)

• GATOR: Graph-Aware Transformer with Motion-Disentangled Regression for Human Mesh Recovery from a 2D Pose

Yingxuan You, Hong Liu, Xia Li, Wenhao Li, Ti Wang, Runwei Ding.

IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2023.

• MISD-SLAM: Multimodal Semantic SLAM for Dynamic Environments

Yingxuan You, Peng Wei, Jialun Cai, Weibo Huang, Risheng Kang, Hong Liu.

Wireless Communications and Mobile Computing, 2022.

• An Efficient Graph Transformer Network for Video-Based Human Mesh Reconstruction

Tao Tang, **Yingxuan You**, Ti Wang, Hong Liu.

CAAI International Conference on Artificial Intelligence (CICAI), 2023.

• SPSD: Semantics and Deep Reinforcement Learning Based Motion Planning for Supermarket Robot

Jialun Cai, Weibo Huang, **Yingxuan You**, Zhan Chen, Bin Ren, Hong Liu.

IEICE TRANSACTIONS on Information and Systems, 2023.

• Interweaved Graph and Attention Network for 3D Human Pose Estimation

Ti Wang, Hong Liu, Runwei Ding, Wenhao Li, **Yingxuan You**, Xia Li.

IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2023.

WORK EXPERIENCE

Alibaba, Hangzhou, China

2023.07 – 2023.12

Research Intern in Digital Human Team.

Topic: 3D Face Reconstruction & Texture Generation.

- Explore effective constraints on face texture generation to fine-tune diffusion model w/o 3D scanned data.
- Propose DiffFace and self-supervised constraints to learn high-quality and renderable texture from image.
- Design a side branch with a condition input to beautify the original texture and maintain personal identity.

EasyHome, Beijing, China

2021.03 – 2021.08

Research Intern in SLAM Team.

Topic: SLAM & 3D Scene Reconstruction.

- Study semantic SLAM for indoor scenes that combines the visual SLAM with the segmentation network.
- Alleviate the impact of dynamic pixels using semantic information and multi-view geometric constraints.
- Scan and build a housing dataset. Test algorithm effectiveness on IOS & Android in real-world practices.

PROJECTS EXPERIENCE

Intelligent Supermarket Robot, Perception Team Leader

2022.07 – Present

- Goal: To enable the robot to perceive the environment and provide customer service.
- Main work: 1) 3D Scene Reconstruction: Combine a RGB-D camera and SLAM system to reconstruct the dense RGB point cloud map of the supermarket. 2) Human Body Tracking: Estimate 3D human pose from images to control the robot's speed and direction, achieving accurate and real-time human body tracking.

INVENTION PATENT

- **A 3D Human Mesh Reconstruction Method Based on Graph Skeleton Attention.**
Hong Liu, **Yingxuan You**, Yang Chen, Wenhao Li.
Invention patent, Published Application Number: CN115294265A, 2022.
- **A 3D Human Pose Estimation Method Based on Interweaved Graph and Attention Network.**
Hong Liu, Ti Wang, Wenhao Li, **Yingxuan You**, Runwei Ding.
Invention patent, Published Application Number: CN116129051A, 2023.

COMPETITION

- **Honorable Mention** of China Undergraduate Physical Experiment Competition. 2020
- **Honorable Mention** of Mathematical Contest in Modeling. 2020
- **First Prize** of Beijing Undergraduate Physical Experiment Competition. 2019
- **First Prize** of Beijing Undergraduate Mathematical Contest in Modeling. 2019
- **First Prize** of China Undergraduate Mathematical Contest in Modeling. 2018
- **Second Prize** of Beijing Mathematics Competition. 2018


AWARDS AND HONORS

- Outstanding Graduate Award, *Peking University* (**Top 5%**) 2024
- Merit Student Scholarship, *Peking University* (**Top 5%**) 2022, 2023
- Outstanding Graduate Award, *Beihang University* (**Top 5%**) 2021
- First Prize of Segway-Ninebot Scholarship, *Beihang University* (**Top 1%**) 2021
- First Prize of Competition Scholarship, *Beihang University* (**Top 2%**) 2019, 2020
- Excellent Student Cadres Award, *Beihang University* (**Top 1%**) 2019, 2020
- Innovation Student Award, *Beihang University* (**Top 0.2%**) 2018

SKILLS

- **Programming:** Python, Pytorch, C/C++, MATLAB, \LaTeX .
- **Language:** Mandarin (Native), English (Fluent, IELTS: 7.0).

OPEN SOURCE

Codes for my published papers are available on my  [GitHub](#):

- (ICCV 2023) PMCE: <https://github.com/kasvii/PMCE>
- (ICASSP 2023) GATOR: <https://github.com/kasvii/GATOR>