## **Boyang YU**

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Education	
09/2020 - 08/2022	Peking University, Beijing, China
	- Bachelor of Science in Physics, School of Physics
	· Completed coursework for a Bachelor of Science in Physics for the first two
	years.
	· Made a decision to transition to Computer Science and switched majors in
	09/2022.
Since 09/2022	Peking University, Beijing, China
(Graduated in fall 2025)	- Bachelor of Science in Computer Science, School of Electronics Engineering
	and Computer Science.
	· GPA: 3.60/4.00
	· Selected Awards:
	* Excellent Study Award from Peking University
	* Wanglaoji Enterprise Scholarship
	* Second-class scholarship for freshmen
Research Experiences	
05/2023 - Present	Prof. Libin Liu's group, PKU, China

- Projects:
  - · Implemented and replicated fundamental kinematic algorithms including FK/IK and motion interpolation smoothing, etc.
  - · Generating stylized and biologically plausible motion within a physics-driven environment:
    - Implemented a new fatigue state action generation under 3-CC control using GAN-based reinforcement learning methods on Isaacgym.
    - Currently engaged in refining AdaptNet for motion style transfer using GANs, integrating data generated from videos.
  - · Collaborated on text-to-motion generation and volumetric muscle simulation and rendering work.
- VCL (Visual Computing and Learning) Lab Summer School, PKU, China 07/2023 - 09/2023

Projects:

· Successfully reproduced the physics control deep reinforcement learning algorithm, DeepMimic.

## Related Course Projects

· Achieve Real-time Motion Control in Kinematics/Physics Simulation:

Utilized motion matching and interpolation smoothing in a Physics Simulator with PD control, achieving top score.

· Fine-Tuning the Segment-Anything Model and Integrating a Downstream Classifier:

Fine-tuned the segment-anything model on a medical CT dataset, integrating a classifier model for high accuracy in organ type identification for CT scans.

Language Skills

06/2023 **TOEFL** R: 30 L: 27 S: 22 W: 21 Total: 100

## Technical Skills

- · Coding: C++, Python (including Pytorch)
- · Machine learning: reinforcement learning, machine learning theory
- · Graphics: character animation, physics simulation, rendering, NeRF
- · Robotics: proficient in robot kinematics and dynamics, motion planning and control policy, simulation
- · Generative models: Variational Autoencoders (VAE), Generative Adversarial Networks (GAN)