

Boyang YU

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Education

09/2020 – 08/2022	Peking University, Beijing, China <ul style="list-style-type: none">- 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 (Graduated in fall 2025)	Peking University, Beijing, China <ul style="list-style-type: none">- Bachelor of Science in Computer Science, School of Electronics Engineering and Computer Science.· GPA: 3.60/4.00

Research Experiences

05/2023 - Present	Prof. Libin Liu 's group, PKU, China Projects: <ul style="list-style-type: none">· Implemented and replicated fundamental kinematic algorithms including FK/IK and motion interpolation smoothing, etc.· Implemented fatigue state action generation under 3-CC control using AMP (adversarial motion priors) on Isaacgym.· Collaborated on muscle-driven motion generation and volumetric muscle simulation work.· Currently engaged in refining AdaptNet for motion style transfer using GANs, integrating data generated from videos.
07/2023 – 09/2023	VCL (Visual Computing and Learning) Lab Summer School, PKU, China Projects: <ul style="list-style-type: none">· Successfully reproduced the physics control deep reinforcement learning algorithm, DeepMimic.· Investigated the expressive capability of AMP adversarial generation algorithms.

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
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Technical Skills

- Proficient in **C++** and **Python** programming languages.
- Experienced in using **Pytorch** for deep learning tasks.

- Familiar with **reinforcement learning**, **character animation**, and **physics control algorithms**.
- Adept grasp of **machine learning theory**.
- Possesses basic knowledge of **physics** principles.
- Experienced with using **Isaacgym** for simulation tasks.
- Experienced with **generative models** including **Variational Autoencoders (VAE)** and **Generative Adversarial Networks (GAN)**.