

Ziyang Song

+852 6575 5310 | ziyang.song@connect.polyu.hk | <https://szy-young.github.io>

EDUCATION

The Hong Kong Polytechnic University

Hong Kong SAR, China

Doctor of Philosophy in Computing

09/2021 - now

Supervisor: *Bo Yang*

Xi'an Jiaotong University

Xi'an, China

Master of Engineering in Control Science and Engineering

09/2018 - 06/2021

Xi'an Jiaotong University

Xi'an, China

Bachelor of Engineering in Automation (Honors Youth Program)

09/2014 - 06/2018

EXPERIENCE

SenseTime

Remote

Research Intern

02/2021 – 07/2021

Research in 3D human motion synthesis (*ActFormer*, ICCV 2023)

Tencent Robotics X

Shenzhen, China

Research Intern

06/2019 - 08/2019

Development of a real-time human action recognition algorithm on mobile platform (NVIDIA Jetson Xavier)

SELECTED PUBLICATIONS

Journal Papers

- **Ziyang Song**, Bo Yang. *Unsupervised 3D Object Segmentation of Point Clouds by Geometry Consistency*. TPAMI, 2024.

Conference Papers

- **Ziyang Song**, Jinxi Li, Bo Yang. *OSN: Infinite Representations of Dynamic 3D Scenes from Monocular Videos*. ICML, 2024.
- Jinxi Li, **Ziyang Song**, Bo Yang. *NVFi: Neural Velocity Fields for 3D Physics Learning from Dynamic Videos*. NeurIPS, 2023.
- Liang Xu*, **Ziyang Song***, Dongliang Wang, et al. *ActFormer: A GAN-based Transformer towards General Action-Conditioned 3D Human Motion Generation*. ICCV, 2023.
- **Ziyang Song**, Bo Yang. *OGC: Unsupervised 3D Object Segmentation from Rigid Dynamics of Point Clouds*. NeurIPS, 2022.

(* denotes equal contribution)