# Canyu Zhang

1100 Pulaski St. Apt 123
Columbia, SC, USA, 29201

czzhang179.github.io/zcy.github.io/
canyu@email.sc.edu
646-321-6917

## Education

| | |
|---|---|
| **University of South Carolina** | January 2021– May 2024 |
| *PhD, Major in Computer Science* | *Columbia, SC, USA* |
| **New York University** | August 2018–May 2020 |
| *Master of Science, Major in Electrical Engineering* | *New York, NY, USA* |
| **Shandong University** | September 2014–June 2018 |
| *Bachelor of Engineering, Major in Communication Engineering* | *Jinan, Shandong, China* |

## Working Experience

**Summer Internship** — May, 2023 – August, 2023
*PAII Inc.* — *Palo Alto, California, USA*

- Using stable diffusion model to generate 3D human sequences based on input music.
- Designing autoregression encoder to make the generated sequence be more harmonious.

**Research Assistant** — January, 2022 – Present
*University of South Carolina* — *Columbia, SC, USA*

- Using transformer for point cloud few-shot semantic segmentation.
- Developing a stratified structure to better learn point cloud local information.
- Using implicit neural representation for image inpainting and super-resolution.
- Distilling information from pretrained inpainting network for image deshadow task.

**SnowVision Research Assistant** — January, 2021 – December, 2021
*University of South Carolina* — *Columbia, SC, USA*

- Developing algorithms for archaeological heritage fragment recognition.
- Using graph neural network for fragment classification and matching.

## Research Publication

Y. Lu, J. Zhou, S. McDorman, **C. Zhang**, D. Scott, J. Bukuts, C. Wilder, K. Smith, S. Wang. Snowvision: Segmenting, Identifying, and Discovering Stamped Curve Patterns from Fragments of Pottery, International Journal of Computer Vision, 130:2707–2732, 2022.

Z. Zhao, Z. Wu, X. Wu, **C. Zhang**, S. Wang. Crossmodal Few-shot 3D Point Cloud Semantic Segmentation, ACM Multimedia Conference, 4760-4768, Lisbon, Portugal, 2022.

**C. Zhang**, Z. Wu, X. Wu, Z. Zhao, S. Wang. Few-shot 3D Point Cloud Semantic Segmentation via Stratified Class-specific Attention Based Transformer Network, AAAI 2023.

**C. Zhang**, Q. Guo, X. Li, S. Wang. SuperInpaint: Learning Detail-Enhanced Attentional Implicit Representation for Super-resolution Image Inpainting.

**C. Zhang**, X. Li, Q. Guo, S. Wang. SAIR: Learning semantic-aware implicit representation, ICLR 2024 Under Review

## Academic Services

Reviewer of AAAI Conference on Artificial Intelligence
Reviewer of ACM Mutimedia
Reviewer of Pattern Recognition Letters (PRL)
Reviewer of IEEE Transactions on Multimedia (TMM)

## Research Interests

Computer Vision, Machine Learning, Image Super-resolution, Image Inpainting, Image Denoising, Semantic Segmentation, 3D Point Cloud

## Specialized Skills

Python, Matlab, Java, C, Linux, Bash