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EDUCATION

Nanchang University (GPA: 3.49/4.0) Supervisor: Associate Professor. Jingbo Wei Master in Computer Science	Nanchang, China Sep 2020 – July 2023
Jiangxi University of Finance and Economics (GPA: 2.6/4.0) B.S. in Software Engineering	Nanchang, China Sep 2015 – July 2019

PUBLICATIONS

* indicates equal contribution

[Neurocomputing]	ShapeGPT and PointPainter for fast zero shot text-to-3d point cloud generation Zeyun Wan*, Shichao Fan*, Huan Zhao, Jiawei Liu, Ying Chen Neurocomputing, IF: 5.5, 2025
[MDPI]	Learning Contours for Point Cloud Completion Jiabo Xu, Zeyun Wan, Jingbo Wei MDPI Remote Sensing, IF: 5.5, 2023
[IEEE]	GLORN: Strong Generalization Fully Convolutional Network for Low-Overlap Point Cloud Registration Jiabo Xu, Yukun Huang, ZeYun Wan, Jingbo Wei IEEE Transactions on Geoscience and Remote Sensing, IF: 7.5, 2022

RESEARCH INTERESTS

3D Reconstruction, Point-Cloud Processing, Generative AI

RESEARCH EXPERIENCE

- *School of Computer and Information Engineering, Nanchang Institute of Technology* *Nanchang, China*
Fast zero shot text-to-3d point cloud generation using GPT March 2024 – Aug 2024
- Developed the two-stage ShapeGPT text-to-3D pipeline: Stage 1 uses a GPT-style transformer to generate coarse voxel priors directly from raw text prompts; Stage 2 employs a lightweight PointPainter refinement network to convert those voxels into detailed point clouds
1. Designed and implemented the ShapeGPT architecture to encode text prompts into 3D shape priors, reducing inference time compared to prior methods.
 2. Implemented the PointPainter module to “paint” geometric detail onto the ShapeGPT voxels, boosting reconstruction fidelity and achieving state-of-the-art improvements on standard benchmarks (e.g. ShapeNet), with up to a 20% reduction in error versus previous zero-shot methods.



- School of Computer and Information Engineering, Nanchang Institute of Technology Nanchang, China

Designing a soft points registration network

1. Developed a RANSAC-free point cloud registration framework that leverages self-attention and cross-attention to generate soft correspondences without relying on traditional feature matching, enabling robust geometric structure perception between source and target point clouds.
2. Achieved state-of-the-art performance on benchmark datasets (3DMatch, 3DLoMatch, KITTI) with significantly improved computational efficiency by directly estimating transformation parameters from attention-weighted soft point sets.

Input Data Soft Points Registration Result Ground Truth The different local regions attended by the three soft points

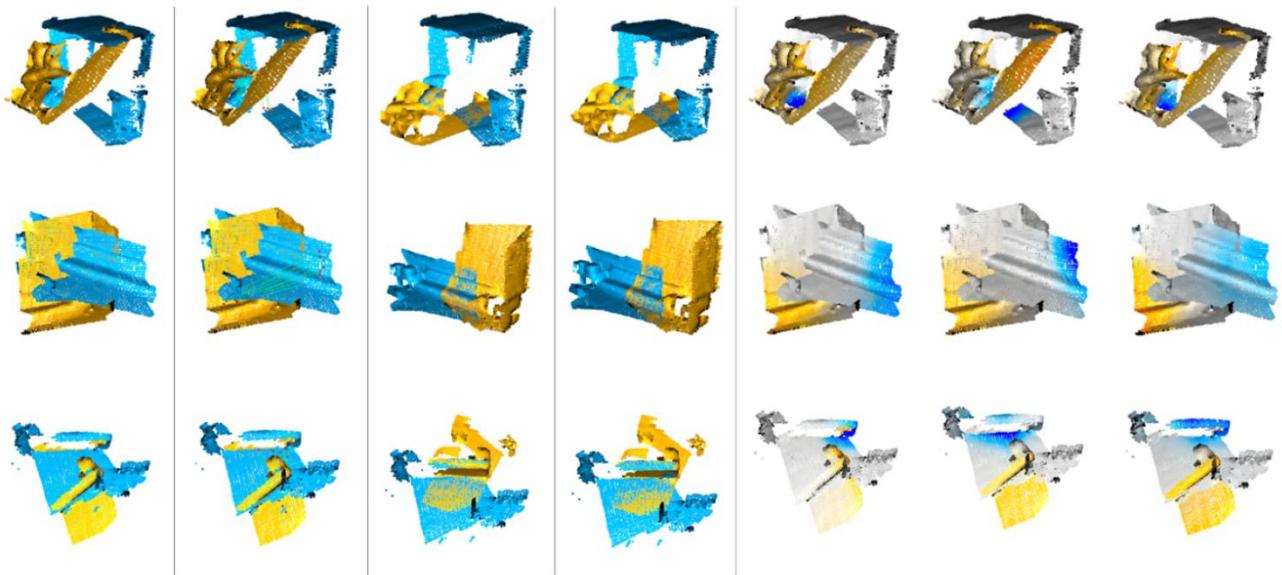


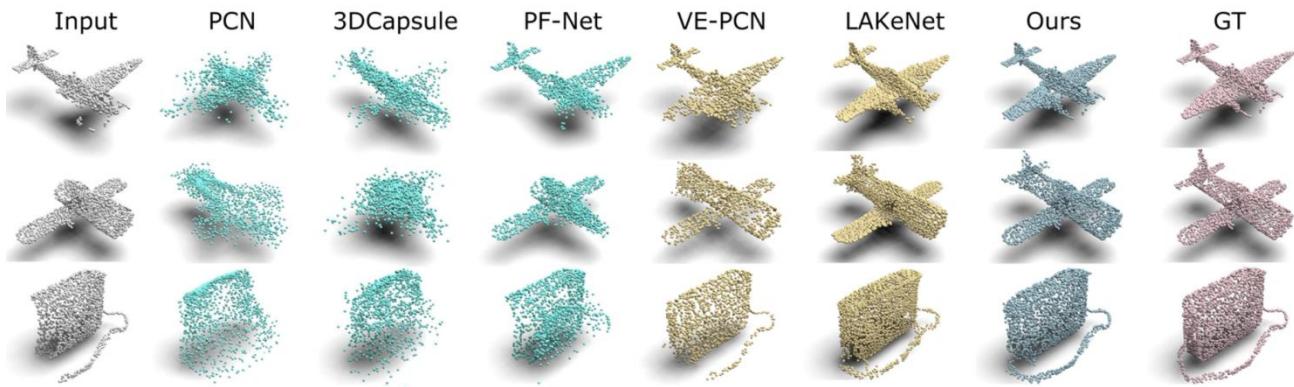
Fig. 2. Example results on 3DLoMatch dataset.

- School of Mathematics and Computer Sciences, Nanchang University Nanchang, China

Learning Contours for Point Cloud Completion

May 2022 – July 2023

1. Designed a novel end-to-end “point → voxels → points” completion network by integrating transformer-based encoder and decoder modules, improving model compactness over VE-PCN by eliminating extra multi-scale branches while preserving rich structural priors for completion.
2. Incorporated an implicit voxel-validity classifier with a contour-learning loss to capture salient edges and irregular surfaces, yielding more accurate detail reconstruction on ShapeNet and KITTI benchmarks compared to standard transformer-only decoders.



INDUSTRIAL EXPERIENCE

Beijing Shuimu Imprint Intelligent Technologies Co., Ltd.

June 2024 – April 2025

Workplace : Tsinghua University, Beijing.

Position: Java Engineer & DevOps Engineer

- Architected and implemented an automated thesis-formatting system using Java, SpringBoot, and the Snowy framework to manage a front-end/back-end-separated desktop application.
- Integrated Aspose.Words API for Java to generate standardized document components: font/paragraph/citations styles for various sections, cover pages, headers/footers, and reference section, eliminating manual formatting errors and enforcing university style for each thesis sections.

Beijing Infosec Technologies Co., Ltd.

July 2023 – May 2024

Position: Java Engineer & DevOps Engineer

- Independently designed and deployed advanced firewalld configurations across multi-NIC servers for a high-availability digital-signature service: automated port and IP policy updates, one-click default-policy switching, and import/export backup-restore workflows to ensure rapid recovery and policy consistency
- Collaborated with security and academic stakeholders to define threat models and compliance requirements, delivering customized automation scripts that accelerated policy audits by 70%

ACADEMIC TECHNICAL SKILLS

- Programming Language: Python
- Frameworks & Libraries: PyTorch, Open3D, Open CV, Hugging Face Transformers and Diffusers
- Tools: Git

LANGUAGE SKILLS

- English: IELTS 6.5 (CEFR level B2)