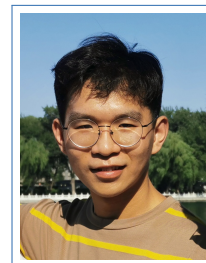# Mulin YU

PhD student in Computer Science and Geometry processing

Alpes-Maritimes, France
☏ *+33(0)7 61 90 55 18*
✉ *mulin.yu@inria.fr*

Education

2019–2022 **PhD in Computer Vision and Geometry Processing**, *Université Côte d'Azur - Inria*, FR,
3D Reconstruction and Repairing with Deep learning and traditional methods.

2016–2019 **Engineering Degree in Applied Mathematics and Modeling**, *Polytech Nice-Sophia*, FR,
Modeling, Scientific Computing, Data analysis and image processing.

2013–2016 **Bachelor Degree in Applied Mathematics**, *Hohai University*, CHN,
Statistic, Mathematical Modeling, Geometric Algebra and Mathematical Analysis.

Professional Experience

2019 **Geometry Processing Intern**, *Inria*, Sophia Antipolis, FR.
Generating a 3D point clouds dataset enriched with normal, curvature and boundary binary label (C++, CGAL).
Development a 3D point cloud processing method using Deep learning (Python, Pytorch).

Summer 2018 **Image Processing Intern**, *I3S - CNRS*, Sophia Antipolis, FR.
Semantic labelling of human hand image using Faster R-CNN and SSD (Python, Tensorflow).
Designing a semantic enriched human hands image dataset.
Development of real time image acquisition and processing pipeline. (Python)

Summer 2017 **Administration Intern**, *Chervon*, Nanjing, CHN.
Processing of financial statements. (Excel)
Event Hosting and Planning.

Publication

Finding Good Configurations of Planar Primitives in Unorganized Point Clouds,
Yu M. and Lafarge F.
Proc. of the IEEE conference on Computer Vision and Pattern Recognition (CVPR), 2022.

Repairing geometric errors in 3D urban models with kinetic data structures,
Yu M., Lafarge F., Oesau S. and Hilaire B.
ISPRS Journal of Photogrammetry and Remote Sensing (JPRS), to appear, 2022.

Qualifications

OS	Windows, Linux	**Programming**	Python, C++, Pytorch, CGAL
Tools	Git/SVN, LATEX, Office	**Language**	Chinese, English, French

Others

2021 **Technical Committee**, *ISPRS 2020/2021 conference*.

2021-2022 **Student Volunteer**, *JFIG 2021, Eurographics 2022*.

Ongoing **Reviewer**, *COMPUTER-AIDED DESIGN, ISPRS, ECCV, TPAMI*.

2017 **President**, *Student Union, College of Science, Hohai University*.

2020-2022 **Invitation Talks**, *Titane Seminar, CSTB Seminar, TU Delft-3D geoinformation*.

2022 **Best Poster Award**, *MOMI 2022*.