

# YIJUN YUAN

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<https://jarrome.github.io>

## EDUCATION

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**ShanghaiTech University, China**  
B.E., Computer Science and Technology.

*September 2014 - June 2018*

GPA: 3.69/4.0

**ShanghaiTech University, China**  
M.E., Computer Science and Technology  
MARS Lab, advised by Prof. **Sören Schwertfeger**

*September 2018 - June 2021*

**Outstanding Graduation.** GPA: 3.5/4.0

**Julius Maximilian University of Würzburg, Germany**  
Ph.D, advised by Prof. **Andreas Nüchter**

*October 2021 - Present*

## VISITING AND INTERN

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**Tencent Inc.**  
*3D Vision Engineer Intern*

*February 2021 - May 2021*

**Julius Maximilian University of Würzburg, Germany**  
*Research visiting, advised by Prof. **Andreas Nüchter**, sponsored by DAAD scholarship*

*October 2019 - December 2019*

**Nullmax Inc.**  
*Computer Vision Engineer Intern*

*February 2019 - May 2019*

**ShanghaiTech University**  
*Head TA for Computer Architecture course*  
*TA for Computer Architecture course*

*March 2018 - June 2018*

*March 2020 - June 2020*

## PUBLICATIONS

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1. Hou, J., **Yuan, Y.**, He, Z., Schwertfeger, S. (2021). Matching Maps based on the Area Graph. Intelligent Service Robotics (JIST).
2. **Yuan, Y.**, Borrmann, D., Hou, J., Ma, Y., Nchter, A., Schwertfeger, S. (2021). Self-supervised Point Set Local Descriptors for Point Cloud Registration. Sensors.
3. **Yuan, Y.**, Xu, Q., and Schwertfeger, S. (2020). Configuration-space Flipper Planning on 3D Terrain. In 2020 IEEE International Symposium on Safety, Security, and Rescue Robotics (SSRR). IEEE.
4. Long, X., Xu, Q., **Yuan, Y.**, He, Z., and Schwertfeger, S., "Improved Visual-Inertial Localization for Low-cost Rescue Robots", 21st World Congress of the International Federation of Automatic Control (IFAC-WC): International Federation of Automatic Control, 2020.
5. Hou, J., **Yuan, Y.**, and Schwertfeger, S. (2019, December). Area Graph: Generation of Topological Maps using the Voronoi Diagram. In 2019 19th International Conference on Advanced Robotics (ICAR) (pp. 509-515). IEEE.
6. **Yuan, Y.**, Wang, L., and Schwertfeger, S. (2019, September). Configuration-space flipper planning for rescue robots. In 2019 IEEE International Symposium on Safety, Security, and Rescue Robotics (SSRR) (pp. 37-42). IEEE.
7. **Yuan, Y.**, and Schwertfeger, S. (2019, August). Incrementally Building Topology Graphs via Distance Maps. In 2019 IEEE International Conference on Real-time Computing and Robotics (RCAR) (pp. 468-474). IEEE.
8. **Yuan, Y.**, Kuang, H., and Schwertfeger, S. (2018, November). Fast Gaussian Process Occupancy

Maps. In 2018 15th International Conference on Control, Automation, Robotics and Vision (ICARCV) (pp. 1502-1507). IEEE.

## AWARDS

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**Fan's Favorite Prize, NO.4 in total score, Best on HPCG and Tensorflow** June 2018

- ISC-HPC 2018 high performance competition, Frankfurt, Germany.

**DAAD-Short Term Scholarship** August 2019

- German Academic Exchange Service

**Outstanding Graduation** June 2021

- ShanghaiTech University, China

## TECHNICAL STRENGTHS

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<b>Professional skills</b>	Robotics, Computer Vision (2D&3D), Machine Learning
<b>Programming</b>	Python, C++, C, MATLAB, R, Rust
<b>Software</b>	ROS, Gym, 3DTK
<b>Simulator</b>	Vrep
<b>Framework</b>	Tensorflow, Pytorch
<b>Language</b>	Chinese (native), English (fluent), German (learning...)