

YIJUN YUAN

(+49)15122079050 ◊ (+86)16601703289 ◊ yijun.yuan@uni-wuerzburg.de
<https://jarrome.github.io>

PERSONAL INFO.

Yijun Yuan was born in 1996.04.15.

Yijun's main focus is on robotics. His previous works are related to Rescue robotics, Registration and Mapping. He has currently 12 published papers, including robotics Top journals T-ROx1, RALx3.

EDUCATION

Julius Maximilian University of Würzburg, Germany *Oct. 2021 - Sept. 2024 (Expected)*
Ph.D, advised by Prof. **Andreas Nüchter**

ShanghaiTech University, China *Sept. 2018 - Jun. 2021*
MSC., advised by Prof. **Sören Schwertfeger** **Outstanding Graduation.** GPA: 3.5/4.0

ShanghaiTech University, China *Sept. 2014 - Jun. 2018*
BE., Computer Science and Technology. GPA: 3.69/4.0

EXPERIENCE

ETH Zürich, Switzerland *Jan. 2024 - Mar. 2024*
PhD research visiting, in Prof. Marc Pollefeys's group

Julius Maximilian University of Würzburg, Germany *Oct. 2019 - Dec. 2019*
Research visiting, advised by Prof. Andreas Nüchter, sponsored by DAAD scholarship

PUBLICATIONS

1. **Yuan, Y.**, & Nüchter, A. (2024). Uni-Fusion: Universal Continuous Mapping. IEEE Transactions on Robotics (**T-RO**, Q1 Top, 7.8).
2. **Yuan, Y.**, & Nüchter, A. (2023). Online Learning of Neural Surface Light Fields Alongside Real-Time Incremental 3D Reconstruction. IEEE Robotics and Automation Letters (RAL, Q2 Top, 5.2).
3. **Yuan, Y.**, & Nüchter, A. (2022), An Algorithm for the SE(3)-Transformation on Neural Implicit Maps for Remapping Functions, IEEE Robotics and Automation Letters (RAL, Q2 Top, 5.2).
4. **Yuan, Y.**, & Nüchter, A. (2022), Indirect Point Cloud Registration: Aligning Distance Fields using a Pseudo Third Point Set, IEEE Robotics and Automation Letters (RAL, Q2 Top, 5.2).
5. Hou, J., **Yuan, Y.**, He, Z. & Schwertfeger, S. (2021). Matching Maps based on the Area Graph. Intelligent Service Robotics (JIST, Q4, 2.5).
6. **Yuan, Y.**, Borrmann, D., Hou, J., Ma, Y., Nüchter, A., & Schwertfeger, S. (2021). Self-supervised Point Set Local Descriptors for Point Cloud Registration. Sensors (Q3, 3.9).
7. **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).
8. Long, X., Xu, Q., **Yuan, Y.**, He, Z., and Schwertfeger, S. (2020). Improved Visual-Inertial Localization for Low-cost Rescue Robots. 21st World Congress of the International Federation of Automatic Control (IFAC-WC).
9. Hou, J., **Yuan, Y.**, and Schwertfeger, S. (2019). Area Graph: Generation of Topological Maps using the Voronoi Diagram. In 2019 19th International Conference on Advanced Robotics (ICAR).
10. **Yuan, Y.**, Wang, L., and Schwertfeger, S. (2019). Configuration-space flipper planning for rescue robots. In 2019 IEEE International Symposium on Safety, Security, and Rescue Robotics (SSRR).
11. **Yuan, Y.**, and Schwertfeger, S. (2019). Incrementally Building Topology Graphs via Distance Maps. In 2019 IEEE International Conference on Real-time Computing and Robotics (RCAR).

12. **Yuan, Y.**, Kuang, H., and Schwertfeger, S. (2018). Fast Gaussian Process Occupancy Maps. In 2018 15th International Conference on Control, Automation, Robotics and Vision (ICARCV).

AWARDS

Outstanding Graduation

Jun. 2021

- ShanghaiTech University, China

DAAD-Short Term Scholarship

Aug. 2019

- German Academic Exchange Service

NO.4 in total score, Best on HPCG and Tensorflow

Jun. 2018

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