

Yijun Yuan

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Education

Sept. 2018 – Present 📖 **M.E., Computer Science and Technology, School of Information Science and Technology, ShanghaiTech University, China.**

Sept. 2014 – Jun. 2018 📖 **B.E., Computer Science and Technology, School of Information Science and Technology, ShanghaiTech University, China.**

Employment

Feb. 2019 – Present 📖 **Computer Vision Engineer Intern, Nullmax Inc.**

Experience

Teaching

Spring 2018 📖 **Teaching Assistant, Computer Architecture I.**

Research

Fall 2016 - Aug. 2017 📖 **Computer Vision** (Retina image segmentation, Crowd Counting).

Sept. 2017 - Aug. 2018 📖 **Mapping, Robotics**(1. Automatic Generation of Hierarchical Area Topology Representations from 2D Grid Maps (Bachelor's Thesis), 2. Fast Gaussian Process Occupancy Mapping (ICARCV2018), 3. Incrementally building topology graphs via distance maps, 4. Topological Area Graph Generation and its Application to Path Planning).

May. 2018 - Nov. 2018 📖 **Machine Learning** (1. Deep Kernel Learning with Randomized Sketches, 2. CBCT Calibration).

Oct. 2018 - Jan. 2019 📖 **Robot Learning** (Attempt to use RL/IL on Arms with Vrep simulator and openAI RL baseline).




Feb. 2019 - Present 📖 **Planning and Mapping, Robotics** (1. Flipper Planning, 2. GPOM and incremental topological map further work)

Research Publications







① Jiawei, H., Yuan, Y. & Schwertfeger, S. (2018). Topological area graph generation and its application to path planning. *arXiv preprint arXiv:1811.05113*.

- 2 Yuan, Y., Kuang, H. & Schwertfeger, S. (2018). Fast gaussian process occupancy maps. In *2018 15th international conference on control, automation, robotics and vision (icarcv)* (pp. 1502–1507). IEEE.
- 3 Yuan, Y. & Schwertfeger, S. (2018). Incrementally building topology graphs via distance maps. *arXiv preprint arXiv:1811.01547*.

Awards

- 2016  **Dean's Scholarship** ShanghaiTech University.
- 2017  **Excellent Scholarship**, ShanghaiTech University.
- 2018  **Fan's Favorite Prize, NO.4 in total score, Best on HPCG and Tensorflow**, ISC 2018 high performance competition, Frankfurt, Germany.

Skills

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|---------------------|--|
| Professional skills |  Computer Vision, Robotics, Machine Learning, Deep Learning, Stochastic Processes |
| Programming |  PYTHON, C + +, C, MATLAB, R |
| Software |  ROS, Gym |
| Simulator |  Vrep. |
| Framework |  Tensorflow, Pytorch |
| Language |  English (fluent), Chinese (native) |