

Jing DONG

- CONTACT** jdong@gatech.edu 801 Atlantic Dr NW, 273B
 <http://www.cc.gatech.edu/grads/j/jdong37/> Atlanta, GA 30332
- SUMMARY** My current research interest includes various topics in Robotics and Computer Vision, which cover but are not limited to Simultaneous Localization and Mapping (SLAM), 3D reconstruction, and motion planning.
- SKILLS** Programming: C++(Preferred, 4 years), C(8 years), MATLAB(8 years), CUDA(2 years), Python(1 year)
 Robotics Software: ROS(4 years), GTSAM(4 years), OpenCV(6 years)
- EDUCATION** **Georgia Institute of Technology**, Atlanta, GA Aug 2013 - Aug 2018 (Expected)
 Ph.D., Computer Science, GPA: 3.88/4.0
 - Advisor: Prof. Frank Dellaert, & Prof. Byron Boots,
 Tsinghua University, Beijing, China Aug 2008 - July 2012
 B.E., Engineering Mechanics and Aerospace Engineering, GPA: 91.8/100.0
- RESEARCH** **Research Intern** May 2017 - Present
- EXPERIENCE** Microsoft Corporation, Redmond, WA
 Supervisor: Dr. Ranveer Chandra & Dr. Sudipta Sinha
 - Project: 3D reconstructions for data-driven precision agriculture.
- Graduate Research Assistant** Aug 2013 - Present
 Institute for Robotics & Intelligent Machines, Georgia Institute of Technology, Atlanta, GA
 Supervisor: Prof. Frank Dellaert & Prof. Byron Boots
 - Project: 3D reconstruction/crop analysis over time using computer vision in precision agriculture.
 - Project: Real-time motion planning as a probabilistic inference framework on high DOF systems.
 - Project: Real-time distributed 2D laser mapping on multi quadrotors.
- Intern Robotics** May 2015 - Aug 2015
 iRobot Corporation, Bedford, MA
 Supervisor: Dr. Scott Lenser
 - Project: Computer vision based 3D mapping and localization.
- Visiting Student** May 2014 - Aug 2014
 Robotics Institute, Carnegie Mellon University, Pittsburgh, PA
 Supervisor: Prof. Nathan Michael
 - Project: Built a multi quadrotors system for distributed and cooperative mapping.
- SELECTED PUBLICATION** 1. M. Mukadam, **J. Dong**, F. Dellaert, B. Boots, Simultaneous Trajectory Estimation and Planning via Probabilistic Inference. In *Robotics: Science and Systems (RSS)*, 2017.
2. **J. Dong**, J. Burnham, B. Boots, G. Rains, F. Dellaert, 4D Crop Monitoring: Spatio-Temporal Reconstruction for Agriculture. In *IEEE International Conference on Robotics and Automation (ICRA)*, 2017.
3. **J. Dong**, M. Mukadam, F. Dellaert, B. Boots, Motion Planning as Probabilistic Inference using Gaussian Processes and Factor Graphs. In *Robotics: Science and Systems (RSS)*, 2016.
4. V. Indelman, E. Nelson, **J. Dong**, N. Michael, F. Dellaert, Incremental Distributed Inference from Arbitrary Poses and Unknown Data Association: Using Collaborating Robots to Establish a Common Reference. In *IEEE Control Systems*, 2016.
5. **J. Dong**, E. Nelson, V. Indelman, N. Michael, F. Dellaert, Distributed Real-time Cooperative Localization and Mapping using an Uncertainty-Aware Expectation Maximization Approach. In *IEEE International Conference on Robotics and Automation (ICRA)*, 2015.
6. L. Carlone, **J. Dong**, S. Fenu, G. Rains, F. Dellaert, Towards 4D Crop Analysis in Precision Agriculture: Estimating Plant Height and Crown Radius over Time via Expectation-Maximization. In *ICRA Workshop on Robotics in Agriculture*, 2015.