

# Zhen Liu

[liuzhen1994@gatech.edu](mailto:liuzhen1994@gatech.edu) / [itszhen.com](http://itszhen.com)

College of Computing, Georgia Tech

## Education

---

- Georgia Institute of Technology** Aug 2017 - May 2019 (Expected)  
Master of Science in Computer Science, with concentration in Machine Learning
- Georgia Institute of Technology** Aug 2012 - May 2017  
B.S. in Computer Science, B.S. in Electrical Engineering with Highest Honor  
Theory-Intelligence threads for Computer Science Major

## Experience

---

- Robotics Engineering Intern** *iRobot*, Bedford, MA May 2017 – Aug 2017  
Worked on data collection and annotation for on-board deep learning algorithms at iRobot HQ at.
- Research Assistant** *Georgia Tech* Sept 2015 – Present  
Have been researching with Professor Le Song and Byron Boots with deep learning and related applications.  
Research focus on: 1) Novel network architectures for computer vision, 2) deep learning applications in computer vision and robotics

## Publications

---

- Towards Black-box Iterative Machine Teaching** ICML 2018, Under Review  
Weiyang Liu, Bo Dai, Xingguo Li, **Zhen Liu**, James Rehg, Le Song
- SBEED Learning: Convergent Control with Non-linear Function Approximation** ICML 2018, Under Review  
Bo Dai, Albert Shaw, Lihong Li, Lin Xiao, Niao He, **Zhen Liu**, Jianshu Chen, Le Song
- Decoupled Network** CVPR 2018 (Spotlight)  
**Zhen Liu\***, Weiyang Liu\*, Zhiding Yu, Bo Dai, Yisen Wang, Thomas Breuel, James Rehg, Jan Kautz, Le Song  
(\* indicates equal contribution)
- Deep Forward and Inverse Perceptual Models for Tracking and Prediction** ICRA 2018  
Alexander Lambert, Amirreza Shaban, Amit Raj, **Zhen Liu**, Byron Boots
- One-Shot Learning for Semantic Segmentation** BMVC 2017  
Amirreza Shaban, Shray Bansal, **Zhen Liu**, Irfan Essa, Byron Boots
- Motion Planning with Graph-based Trajectories as Gaussian Processes** ICRA 2017  
Eric Huang, Mustafa Mukadam, **Zhen Liu** and Byron Boots
- Multi Robot Object-based SLAM** ISER 2016  
Siddharth Choudhary, Luca Carlone, Nieto Carlos, Rogers John, **Zhen Liu**, Henrik I. Christensen and Frank Dellaert

## Competition

---

- Runner-up in Inequality Track and Capital One API Prize Awardee** *HackDuke '15* November 2015  
A platform that statistically infers aluminum cans' distribution using heterogeneous data to help homeless people to recycle them and earn money.

## Skills

---

- Programming Languages:** Python, C++, Java, C, JavaScript, SQL, MATLAB, C#
- Machine Learning and Related:** Caffe, TensorFlow, PyTorch, OpenCV
- Others:** HTML, CSS, JQuery, D3.js, Angular.js, ROS