

Zhen Liu

liuzhen1994@gatech.edu / 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

Weiyang Liu*, Bo Dai*, Xingguo Li, **Zhen Liu**, James Rehg, Le Song

SBEED Learning: Convergent Control with Non-linear Function Approximation

ICML 2018

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