

Zhen Liu

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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

Research Intern *Mitsubishi Electric Research Lab, Cambridge, MA*

May 2018 – Aug 2018

Worked on recognition/segmentation for point cloud and machine learning for 3D vision.

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. Created a user-friendly interface for the whole research team / outside annotators to annotate various indoor images in different ways.

Selected Publications

Learning towards Minimum Hyperspherical Energy

NIPS 2018

Weiyang Liu*, Rongmei Lin*, **Zhen Liu***, Lixin Yu, Zhiding Yu, Bo Dai, Le Song

Coupled Variational Bayes via Optimization Embedding

NIPS 2018

Bo Dai, Hanjun Dai, Niao He, Weiyang Liu, **Zhen Liu**, Jianshu Chen, Lin Xiao, Le Song

Decoupled Network

CVPR 2018 (Spotlight)

Weiyang Liu*, **Zhen Liu***, Zhiding Yu, Bo Dai, Rongmei Lin, Yisen Wang, 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

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

(* indicates equal contribution)

Rewards

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, Java, C++, C, JavaScript, SQL, MATLAB, C#

Machine Learning and Related: Caffe, TensorFlow, PyTorch, OpenCV

Others: HTML, CSS, JQuery, D3.js, Angular.js, ROS