

# Weimeng Pu

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🏠 <https://weimengpu.github.io/>

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## Education

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### Universita della Svizzera italiana

*Lugano, Ticino, Switzerland*

M.S. IN ARTIFICIAL INTELLIGENCE

*Sept 2018 - (Exp) Jun 2020*

(Expected Jun 2020) thesis: machine-learning based foveated rendering (advised by Piotr Didyk)

### San Jose State University

*San Jose, California, United States*

B.S. IN COMPUTER SCIENCE, HONORS

*Aug 2014 - May 2018*

## Experience

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### Robotics Algorithm Engineer Intern

SEGWAY ROBOTICS

*Jun 2018 - Sept 2018*

- Worked in Loomo Delivery team
- Researched on drivable area segmentation and lane markings detection that support vision-based localization on bikeways

### Deep Learning Engineer Intern

TUPUTECH

*May 2017 - Aug 2017*

- Worked in Mobile AR team
- Optimized robustness of face detection algorithms by training on two unconstrained benchmark datasets (FDDB and WIDER FACE)
- Supported commercialization of existing algorithms
- Surveyed on state-of-the-art deep learning models for object detection

### Lab Instructor and In-Class Teaching Assistant

CS 46A (INTRODUCTION TO PROGRAMMING) & CS 49J (PROGRAMMING IN JAVA)

*Jan 2017 - May 2018*

## Projects

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### Pick and Place in 3D Perception (ROS, Gazebo, Python)

PERCEPTION

*Oct 2017*

- Completed a tabletop pick and place operation using Willow Garage PR2 robot outfitted with an RGB-D sensor
- Applied filtering, RANSAC plane fitting and clustering with extracted features to isolate objects of interest from rest of scene

### Robotic Arm: Pick and Place (ROS, Gazebo, Python)

KINEMATICS

*Sept 2017*

- Controlled a Kuka KR210 robot arm with six axes to remove items from a shelf and place them into a tote
- Performed Inverse Kinematics given a list of end-effector poses to calculate joint angles for robotic arm

## Honors & Awards

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2018-2019 **First-year Scholarship**, Università della Svizzera italiana (top admitted student)

2016 **3rd Place**, American Statistical Association Undergraduate Statistics Class Project Competition

2016 **The Google Games Division II Bay Area Coding Winner**, Google

2014-2016 **Humanities Honors Program**, San Jose State University (top admitted student)

2012 **Outstanding Presentation Award**, Harvard AUSCR China Thinks Big Competition