

Y I M E N G L I

EDUCATION

- 2016-PRESENT **PhD**, Computer Science
George Mason University, Fairfax, VA, USA
Research Interests: Robotics, Computer Vision
- 2016-2018 **MS**, Computer Science
George Mason University, Fairfax, VA, USA
- 2010-2014 **BE**, Software Engineering
East China Normal University, Shanghai, China

EXPERIENCES

- 2016-PRESENT **Research/Teaching Assistant**
Computer Vision and Robotics Lab
Department of Computer Science, George Mason University
- 2021 SUMMER **Research Intern**
UII America, Inc
- 2020 SUMMER **Research Intern**
Honda Research Institute US, CA
- 2018 SUMMER **Research Intern**
AFRL Mathematical Modeling and Optimization Institute, FL

RESEARCH PROJECTS

- 2018-PRESENT **Robot Navigation on Simulated Environments**
Using deep learning techniques to train a robot to do short-range and long-range visual navigation.
- 2021 SUMMER **Multiview Human Pose Estimation**
Estimate important human joint locations in the world frame using images taken by cameras pre-setup at 4 viewpoints.
- 2020 SUMMER **BEV Object Detection from Stereo**
Doing BEV object detection on KITTI, using rgb image and frontal depth image and aiming at adapting to multiple 2d object detection input and different depth estimation methods.
- 2019 SUMMER **Guard Rail Detection on Building Images**
Doing guard rail detection on high-resolution images of buildings under construction. This project motivates from automatic safety inspection for building construction.

CONFERENCES/WORKSHOPS

- 2022 **Y. Li***, A. Debnath*, G.J. Stein, J. Košecká
"Comparison of Model Free and Model-Based Learning-Informed Planning for PointGoal Navigation"
CoRL 2022 Long-Horizon Planning Workshop
- 2021 **Y. Li**, J. Košecká
"Uncertainty Aware Proposal Segmentation for Unknown Object Detection"
WACV 2022 DNOW Workshop
- 2020 **Y. Li**, J. Košecká
"Learning View and Target Invariant Visual Servoing for Navigation"
ICRA 2020

PREPRINTS

- 2023 **Y. Li***, A. Debnath*, G.J. Stein, J. Košecká
"Learning-Augmented Model-Based Planning for Visual Exploration"
arXiv:2211.07898
- 2022 S. Shrestha, **Y. Li**, J. Košecká
"Self-supervised Pre-training for Semantic Segmentation in an Indoor Scene"
arXiv:2210.01884
- 2022 **Y. Li**, B. Esmaceli, M. Gheisari, J. Košecká, A. Rashidi
"Using Unmanned Aerial Systems for Assessing and Monitoring Fall Hazard Prevention Systems in High-rise Construction Projects"
arXiv:2209.13137
- 2020 G. Georgakis, **Y. Li**, J. Košecká
"Simultaneous Mapping and Target Driven Navigation"
arXiv:1911.07980

COMPUTER SKILLS

PL C/C++, Python, Java
OTHER OpenCV, PyTorch, Matlab