# Yimeng Li

## Education

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

## Experiences

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| 2016-Present | **Lab Research**<br>Computer Vision and Robotics Lab<br>Department of Computer Science, George Mason University |
| 2018 Summer | **Research Intern**<br>AFRL Mathematical Modeling and Optimization Institute, FL |
| 2016-2018 | **Graduate Teaching Assistant**<br>CS112: Introduction to Programming - Python<br>Department of Computer Science, George Mason University |
| 2014-2016 | **Software Engineer**<br>The 3rd Research Institute of China Ministry, Shanghai, China |
| 2013-2014 | **Research Intern**<br>The 3rd Research Institute of China Ministry, Shanghai, China |

## Research Projects

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| 2018-Present | **Robot Navigation on Simulated Environments**<br>Using deep learning techniques to train a robot to do short-range and long-range visual navigation. |
| 2019 Summer | **Guard Rail Detection on Building Images**<br>Doing guard rail detection on high-resolution images of buildings under construction. This project motivates from automatic safety inspection for building construction. |
| 2018 Summer | **Object Detection on Aerial Images**<br>Doing fine-grained object detection on xView dataset. Object classes include various engineering machines and multi-functional buildings. |
| 2017 Summer | **Amazon Robotics Challenge**<br>Part of the GMU-BGU team. Responsible for detecting both the known and the unknown sets of objects. |

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## Publications

2020 G. Georgakis, **Y. Li**, J. Kosecka
"Simultaneous Mapping and Target Driven Navigation"
arXiv:1911.07980

2017 E. Dessalene, G. Georgakis, Md. A. Reza, **Y. Li**, Y. Ovcharik, A. Shapiro, J. Kosecka, D. Lofaro
"A Contact Exploitative Approach to Amazon Robotics Challenge"
Warehouse Picking Automation Workshop (ICRA)

## Computer Skills

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

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