

Yunze Man

[Personal Website](#) / [Google Scholar](#) / [DBLP](#) / [GitHub](#) / [Twitter](#)

Email: yunzem2@illinois.edu

RESEARCH INTERESTS

Fields: Computer Vision, Machine Learning, Robotics, Multimedia

Topics: Multi-modal Fusion, 3D Vision, Autonomous Driving, Graph Learning, Federated Learning

EDUCATION

University of Illinois Urbana-Champaign, Ph.D. in Computer Science 2021 - Present

Advisor: [Yuxiong Wang](#), [Liangyan Gui](#)

Carnegie Mellon University, M.S. in Robotics 2019 - 2021

Advisor: [Kris Kitani](#)

Zhejiang University, B.Eng. in Computer Science 2015 - 2019

Advisor: [Xi Li](#)

PUBLICATIONS

MANUSCRIPTS AND PRE-PRINTS

1. Multi-Modality Task Cascade for 3D Object Detection
Jinhyung Park, Xinshuo Weng, **Yunze Man**, Kris Kitani
In Submission, 2021
[PDF](#) | [BibTex](#)
2. All-in-One Drive: A Large-Scale and Comprehensive Perception Dataset with High-Density Long-Range Point Cloud
Xinshuo Weng, **Yunze Man**, Dazhi Cheng, Jinhyung Park, Matthew O'Toole, Kris Kitani
In Submission, 2021
[PDF](#) | [BibTex](#)
3. Graph Neural Network Acceleration via Matrix Dimension Reduction
(by alphabetic order) Shunhua Jiang, **Yunze Man**, Zhao Song, Zheng Yu, Danyang Zhuo
In Submission, 2021

CONFERENCE PUBLICATIONS

4. Multi-echo LiDAR for 3D Object Detection
Yunze Man, Xinshuo Weng, Prasanna Kumar, Matthew O'Toole, Kris Kitani
IEEE International Conference on Computer Vision (ICCV), 2021
[PDF](#) | [BibTex](#)
5. GNN3DMOT: GNN for 3D Multi-Object Tracking with 2D-3D Multi-Feature Learning
Xinshuo Weng, Yongxin Wang, **Yunze Man**, Kris Kitani
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2020
[PDF](#) | [Slides](#) | [BibTex](#)

6. GroundNet: Monocular Ground Plane Normal Estimation with Geometric Consistency
Yunze Man, Xinshuo Weng, Xi Li, Kris Kitani
ACM International Conference on Multimedia (ACM-MM), 2019.
[PDF](#) | [Poster](#) | [BibTex](#)

JOURNAL PUBLICATIONS

7. Deep Q Learning Driven CT Pancreas Segmentation with Geometry-aware U-net
Yunze Man^{*}, Yangsibo Huang^{*}, Junyi Feng, Xi Li, Fei Wu
IEEE Transactions on Medical Imaging (TMI), 2019
[PDF](#) | [BibTex](#)

TEACHING

TEACHING ASSISTANCE

Machine Learning (CS446), UIUC	Fall 2021
Computer Vision Capstone (16-621), CMU	Spring 2020, 2021

SERVICES

ORGANIZING COMMITTEE

Program Committee, IJCAI 2021 workshop on Artificial Intelligence for Autonomous Driving	2021
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CONFERENCE PAPER REVIEW

CVPR (Conference on Computer Vision and Pattern Recognition)	2020, 2021, 2022
ICCV (International Conference on Computer Vision)	2021
ICLR (International Conference on Learning Representations)	2022
NeurIPS (Conference on Neural Information Processing Systems)	2020, 2021
ICML (International Conference on Machine Learning)	2021

AWARDS

ACADEMIC AND SCHOLARSHIP AWARDS

Outstanding Undergraduate Thesis Award	2019
Tianzhou-Chen Scholarship	2019
Meritorious Winner, in Mathematical Contest in Modeling (MCM/ICM)	2017
Provincial Scholarship	2016, 2017, 2018
Guanghua Scholarship	2016