

Curriculum Vitae of Prof. Yuexin Ma

Yuexin Ma

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[Homepage](#)

[Google scholar](#) (4000+ citation)



·Work Experience·

- 09. 2020 – present **ShanghaiTech University**
Assistant Professor/Ph.D. Advisor in School of Information Science and Technology
Founder of 4DV Lab, including 3 PhD students, 12 master students, and 1 research assistant.
- 10. 2019 – 09.2020 **Hong Kong Baptist University**
Research Assistant Professor in the Department of Computer Science

·Education·

- 08. 2015 – 08. 2019 **The University of Hong Kong (HKU)**
PhD in Computer Science
Supervisor: Prof. Wenping Wang (IEEE/ACM Fellow)
- 09. 2011 – 06. 2015 **Shandong University (SDU)**
Bachelor's degree in Software Engineering

·Research Interest·

3D Vision: Scene Understanding, Scene Generation, Multi-modal Perception

Robotics: Embodied AI, Humanoid robotics, Autonomous Driving

·Research Experience·

- Robotic and Autonomous Driving Lab (RAL) of Baidu
Advisor: Ruigang Yang (Chief Scientist and Head of Baidu RAL)
Visiting Scholar 04.2018 - 12.2018
- The University of North Carolina at Chapel Hill (UNC)
Advisor: Dinesh Manocha (ACM Fellow, IEEE Fellow, AAAS Fellow, AAAI Fellow)
Visiting Scholar 09.2017 - 02.2018
- French Institute for Research in Computer Science and Automation (INRIA)
Advisor: Sylvain Lefebvre (Researcher of INRIA)
Visiting Scholar 06.2016 - 08.2016

·Teaching·

- Computer Graphics II, graduate course
- Introduction to Programming (C&C++), undergraduate course
- Smart Vehicles, graduate course

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- Advanced Computer Vision, graduate course

Academic Service

- Area Chair of International Conference on Computer Vision (ICCV) 2025
- Area Chair of Vision and Learning Seminar of China (VALSE) 2024, 2025
- Area Chair of Chinese Conference on Pattern Recognition and Computer Vision (PRCV) 2023, 2024
- Member of CCF Computer Vision Technical Committee 2022-present
- Member of CSIG 3D Vision Technical Committee 2024-present
- Member of CSIG Woman Technical Committee 2024-present

Awards

- Excellent Research Award of ShanghaiTech University 2023
- Shanghai Excellent Teaching Achievement (Higher education) first prize 2022
- First-author paper “TrafficPredict: Trajectory Prediction for Heterogeneous Traffic-Agents” obtained **Most Influential AAAI Papers** of AAAI 2019. Rank 13. 2021.10
- SemanticKITTI Multi-Scan Semantic Segmentation, rank 1st 2021.01
- SemanticKITTI Semantic Segmentation, rank 1st 2020.11
- SemanticKITTI Panoptic Segmentation, rank 1st 2020.11
- NuScenes Camera-based 3D Detection, rank 2nd 2020.12
- NuScenes LiDAR Semantic Segmentation, rank 2nd 2020.12
- **Best paper candidate** of PCM (Pacific-Rim Conference on Multimedia) 2017.11

Honor

- Shanghai High-level Talents 2021
- Outstanding Individual of Baidu RAL 2018
- Best Tutor of the University of Hong Kong 2016
- Hong Kong PhD Fellowship Award (HKPFS) 2015
- Presidential Scholarship of Shandong University 2015
- Google Merit Scholarship 2014
- CCF (China Computer Federation) Top 100 Outstanding Undergraduates of China 2013
- National Scholarship of China 2013, 2014

Publication

I have published **more than 70 papers** on top journals and conferences, including 1 Science Robotics paper, 4 TPAMI papers, 19 CVPR papers, 8 AAAI papers, 7 ECCV papers, 4 ICCV papers, 4 IJCAI papers etc. Among them, I am the **first author or corresponding author for 39 papers**.

(* indicates corresponding author)

1. Aoru Xue, Yiming Ren, Zining Song, Mao Ye, Xinge Zhu, **Yuexin Ma***. FreeCap: Hybrid Calibration-Free Motion Capture in Open Environments. The 39th Annual AAAI Conference on Artificial Intelligence (AAAI), 2025

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2. Zemin Yang, Yujing Sun, Xidong Peng, Siu Ming Yiu, **Yuexin Ma***. UniDemoire: Towards Universal Image Demoireing with Data Generation and Synthesis. The 39th Annual AAAI Conference on Artificial Intelligence (AAAI), 2025
3. Yuhang Lu, Yichen Yao, Jiadong Tu, Jiangnan Shao, **Yuexin Ma***, Xinge Zhu*. Can LVLMS Obtain a Driver's License? A Benchmark Towards Reliable AGI for Autonomous Driving. The 39th Annual AAAI Conference on Artificial Intelligence (AAAI), 2025
4. Chuyang Xiao, Dawei Wang, Xinzhen Tang, Jia Pan, **Yuexin Ma***, Optimizing Efficiency of Mixed Traffic through Reinforcement Learning: A Topology-Independent Approach and Benchmark. IEEE International Conference on Robotics & Automation (ICRA), 2025
5. Ziyang Yan, Wenzhen Dong, Yihua Shao, Yuhang Lu, Haiyang Liu, Jingwen Liu, Haozhe Wang, Zhe Wang, Yan Wang, Fabio Remondino, **Yuexin Ma***, RenderWorld: World Model with Self-Supervised 3D Label. IEEE International Conference on Robotics & Automation (ICRA), 2025
6. Jinpeng Li, Haiping Wang, Jiabin Chen, Yuan Liu, Zhiyang Dou, **Yuexin Ma**, Sibe Yang, Yuan Li, Wenping Wang, Zhen Dong, Bisheng Yang, CityAnchor: City-scale 3D Visual Grounding with Multi-modality LLMs. The International Conference on Learning Representations (ICLR), 2025
7. Xiaofei Wu, Tao Liu, Caoji Li, **Yuexin Ma**, Yujiao Shi, Xuming He, FastGrasp: Efficient Grasp Synthesis with Diffusion. International Conference on 3D Vision (3DV), 2025
8. **Yuexin Ma**, Tai Wang, Xuyang Bai, Huitong Yang, Yuenan Hou, Yaming Wang, Yu Qiao, Ruigang Yang, Xinge Zhu. Vision-Centric BEV Perception: A Survey. IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2024
9. Yudi Dai, Zhiyong Wang, Xiping Lin, Chenglu Wen, Lan Xu, Siqi Shen, **Yuexin Ma**, Cheng Wang. HiSC4D: Human-Centered Interaction and 4D Scene Capture in Large-Scale Space Using Wearable IMUs and LiDAR. IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2024
10. Weixiang Yang, Qi Li, Wenxi Liu, Yuanlong Yu, **Yuexin Ma**, Shengfeng He, Jia Pan. Monocular BEV Perception of Road Scenes via Front-to-Top View Projection. IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2024
11. Hongbo Chen, Yuchong Gao, Shuhang Zhang, Jiangjie Wu, **Yuexin Ma**, Rui Zheng*. RoCoSDF: Row-Column Scanned Neural Signed Distance Fields for Freehand 3D Ultrasound Imaging Shape Reconstruction. Medical Image Computing and Computer Assisted Intervention (MICCAI), 2024 ([Best Paper Award](#))
12. Xiao Han, Yiming Ren, Peishan Cong, Yujing Sun, Jingya Wang, Lan Xu, **Yuexin Ma***. Gait Recognition in Large-scale Free Environment via Single LiDAR. ACM Multimedia (MM), Oral, 2024 ([Best Paper Nomination List](#))
13. Xiao Han, Yiming Ren, Yichen Yao, Yujing Sun, **Yuexin Ma***. Towards Practical Human Motion Prediction with LiDAR Point Clouds. ACM Multimedia (MM), Oral, 2024
14. Yuhang Lu, Xinge Zhu, Tai Wang*, **Yuexin Ma***. OctreeOcc: Efficient and Multi-Granularity Occupancy Prediction Using Octree Queries. NeurIPS, 2024
15. Xidong Peng, Runnan Chen, Feng Qiao, Lingdong Kong, Youquan Liu, Yujing Sun, Tai Wang, Xinge Zhu, **Yuexin Ma***. Learning to Adapt SAM for Segmenting Cross-domain Point Clouds. European Conference on Computer Vision (ECCV), 2024

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16. Yiming Ren, Xiao Han, Yichen Yao, Xiaoxiao Long, Yujing Sun*, **Yuexin Ma***. LiveHPS++: Robust and Coherent Motion Capture in Dynamic Free Environment. European Conference on Computer Vision (ECCV), Oral, 2024
17. Zhenxiang Lin, Xidong Peng, Peishan Cong, Ge Zheng, Yujing Sun, Yuenan Hou, Xinge Zhu, Sibe Yang, **Yuexin Ma***. WildRefer: 3D Object Localization in Large-scale Dynamic Scenes with Multi-modal Visual Data and Natural Language. European Conference on Computer Vision (ECCV), 2024
18. Xiao Fu, Mu Hu, Wei Yin, Kaixuan Wang, **Yuexin Ma**, Ping Tan, Shaojie Shen, Dahua Lin, Xiaoxiao Long. GeoWizard: Unleashing the Diffusion Priors for 3D Geometry Estimation from a Single Image. European Conference on Computer Vision (ECCV), 2024
19. Cheng Shi, Yulin Zhang, Bin Yang, Jiajin Tang, **Yuexin Ma**, Sibe Yang. Part2Object: Hierarchical Unsupervised 3D Instance Segmentation. European Conference on Computer Vision (ECCV), 2024
20. Yumeng Liu, Yaxun Yang, Youzhuo Wang, Xiaofei Wu, Jiamin Wang, Yichen Yao, Sören Schwertfeger, Sibe Yang, Wenping Wang, Jingyi Yu, Xuming He, **Yuexin Ma***. RealDex: Towards Human-like Grasping for Robotic Dexterous Hand. International Joint Conference on Artificial Intelligence (IJCAI), 2024
21. Youquan Liu, Lingdong Kong, Xiaoyang Wu, Runnan Chen, Xin Li, Liang Pan, Ziwei Liu, **Yuexin Ma***. Multi-Space Alignments Towards Universal LiDAR Segmentation. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024
22. Yiteng Xu, Kecheng Ye, Xiao Han, Yiming Ren, Xinge Zhu, **Yuexin Ma***. A Unified Framework for Human-centric Point Cloud Video Understanding. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024
23. Yichen Yao, Zimo Jiang, Yujing Sun, Zhencai Zhu, Xinge Zhu, Runnan Chen, **Yuexin Ma***. HUNTER: Unsupervised Human-centric 3D Detection via Transferring Knowledge from Synthetic Instances to Real Scenes. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024
24. Yiming Ren, Xiao Han, Chengfeng Zhao, Jingya Wang, Lan Xu, Jingyi Yu, **Yuexin Ma***. LiveHPS: LiDAR-based Scene-level Human Pose and Shape Estimation in Free Environment. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Highlight, 2024
25. YingWenQi Jiang, Jiadong Tu, Yuan Liu, Xifeng Gao, Xiaoxiao Long*, Wenping Wang, **Yuexin Ma***. GaussianShader: 3D Gaussian Splatting with Shading Functions for Reflective Surfaces. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024
26. Xiaoxiao Long, Yuan-Chen Guo, Cheng Lin, Yuan Liu, Zhiyang Dou, Lingjie Liu, **Yuexin Ma**, Song-Hai Zhang, Marc Habermann, Christian Theobalt, Wenping Wang. Wonder3D: Single Image to 3D using Cross-Domain Diffusion. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Highlight, 2024
27. Xiaopei Wu, Yuenan Hou, Xiaoshui Huang, Binbin Lin, Tong He, Xinge Zhu, **Yuexin Ma**, Boxi Wu, Haifeng Liu, Deng Cai, Wanli Ouyang. TASeg: Temporal Aggregation Network for LiDAR Semantic Segmentation. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024
28. Ming Yan, Yan Zhang, Shuqiang Cai, Shuqi Fan, Xincheng Lin, Yudi Dai, Siqi Shen, Chenglu Wen, Lan Xu, **Yuexin Ma**, Cheng Wang. RELI11D: A Comprehensive Multimodal Human Motion Dataset and Method. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024
29. Jiaping Ren, Jiahao Xiang, Hongfei Gao, Jinchuan Zhang, Yiming Ren, **Yuexin Ma**, Yi Wu, Ruigang Yang,

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- Wei Li. NPC: Neural Predictive Control for Fuel-Efficient Autonomous Trucks. ICRA, 2024
30. Dingrui Wang, Lai Zheyuan, Yuda Li, Yi Wu, **Yuexin Ma**, Johannes Betz, Ruigang Yang, Wei Li. ESP: Extro-Spective Prediction for Long-term Behavior Reasoning in Emergency Scenarios. ICRA, 2024.
 31. Yilan Dong, Chunlin Yu, Ruiyang Ha, Ye Shi, **Yuexin Ma**, Lan Xu, Yanwei Fu, Jingya Wang. HybridGait: A Benchmark for Spatial-Temporal Cloth-Changing Gait Recognition with Hybrid Explorations. Thirty-Eighth AAAI Conference on Artificial Intelligence (AAAI), 2024
 32. Kai Cheng, Xiaoxiao Long, Wei Yin, Jin Wang, Zhiqiang Wu, **Yuexin Ma**, Kaixuan Wang, Xiaozhi Chen, Xuejin Chen. UC-NERF: Neural Radiance Field for Under-Calibrated Multi-View Cameras in Autonomous Driving. The International Conference on Learning Representations (ICLR), 2024
 33. Runnan Chen, Youquan Liu, Lingdong Kong, Nenglun Chen, Xinge Zhu, **Yuexin Ma***, Tongliang Liu, Wenping Wang*. Towards Label-free Scene Understanding by Vision Foundation Models. Conference on Neural Information Processing Systems (NeurIPS), 2023
 34. Yuhang Lu, Qi Jiang, Runnan Chen, Yuenan Hou, Xinge Zhu, **Yuexin Ma***. See More and Know More: Zero-shot Point Cloud Segmentation via Multi-modal Visual Data. International Conference on Computer Vision (ICCV), 2023
 35. Yiteng Xu, Peishan Cong, Yichen Yao, Runnan Chen, Yuenan Hou, Xinge Zhu, Xuming He, Jingyi Yu, **Yuexin Ma***. Human-centric Scene Understanding in 3D Large-scale Scenarios. International Conference on Computer Vision (ICCV), 2023
 36. Lingdong Kong, Youquan Liu, Runnan Chen, **Yuexin Ma**, Xinge Zhu, Yuenan Hou, Yikang Li, Yu Qiao, Ziwei Liu. Rethinking Range View Representation for LiDAR Segmentation. International Conference on Computer Vision (ICCV), 2023
 37. Youquan Liu, Runnan Chen, Xin Li, Lingdong Kong, Yuchen Yang, Zhaoyang Xia, Yeqi Bai, Xinge Zhu, **Yuexin Ma**, Yikang Li, Yuenan Hou, Yu Qiao. UniSeg: A Unified Multi-Modal LiDAR Segmentation Network and the OpenPCSeg Codebase. International Conference on Computer Vision (ICCV), 2023
 38. Xiangze Jia, Hui Zhou, Xinge Zhu, Yandong Guo, Ji Zhang, **Yuexin Ma***. ContrastMotion: Self-supervised Scene Motion Learning for Large-Scale LiDAR Point Clouds. International Joint Conference on Artificial Intelligence (IJCAI), 2023
 39. Chaofan Huo, Ye Shi, **Yuexin Ma**, Lan Xu, Jingyi Yu, Jingya Wang. StackFLOW: Monocular Human-Object Reconstruction by Stacked Normalizing Flow with Offset. International Joint Conference on Artificial Intelligence (IJCAI), 2023
 40. Jingyu Zhang, Huitong Yang, Dai-Jie Wu, Jacky Keung, Xuesong li, Xinge Zhu, **Yuexin Ma***, Cross-modal and Cross-domain Knowledge Transfer for Label-free 3D Segmentation, Chinese Conference on Pattern Recognition and Computer Vision (PRCV), 2023
 41. Xidong Peng, Xinge Zhu, **Yuexin Ma***. CL3D: Unsupervised Domain Adaptation for Cross-LiDAR 3D Detection. Thirty-Seventh AAAI Conference on Artificial Intelligence (AAAI), 2023.
 42. Peishan Cong, Yiteng Xu, Yiming Ren, Juzhe Zhang, Lan Xu, Jingya Wang, Jingyi Yu, **Yuexin Ma***. Weakly Supervised 3D Multi-person Pose Estimation for Large-scale Scenes based on Monocular Camera and Single LiDAR. Thirty-Seventh AAAI Conference on Artificial Intelligence (AAAI), Oral, 2023.

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43. Juze Zhang, Ye Shi, **Yuexin Ma**, Lan Xu, Jingyi Yu, Jingya Wang. IKOL: Inverse kinematics optimization layer for 3D human pose and shape estimation via Gauss-Newton differentiation. Thirty-Seventh AAAI Conference on Artificial Intelligence (AAAI), 2023.
44. Yiming Ren, Chengfeng Zhao, Yannan He, Peishan Cong, Han Liang, Jingyi Yu, Lan Xu*, and **Yuexin Ma***. LiDAR-aid Inertial Poser: Large-scale Human Motion Capture by Sparse Inertial and LiDAR Sensors. IEEE Transactions on Visualization and Computer Graphics (TVCG), 2023
45. Huitong Yang, Xuyang Bai, Xinge Zhu*, and **Yuexin Ma***. One Training for Multiple Deployments: Polar-based Adaptive BEV Perception for Autonomous Driving. International Conference on Robotics and Automation (ICRA), 2023
46. Mingkun Wang, Xinge Zhu, Changqian Yu, Wei Li, **Yuexin Ma**, Ruochun Jin, Xiaoguang Ren, Dongchun Ren, Mingxu Wang, Wenjing Yang. GANet: Goal Area Network for Motion Forecasting. International Conference on Robotics and Automation (ICRA), 2023
47. Runnan Chen, Xinge Zhu, Nenglun Chen, Wei Li, **Yuexin Ma**, Ruigang Yang, Wenping Wang. Bridging Language and Geometric Primitives for Zero-shot Point Cloud Segmentation. ACM Multimedia (MM), 2023
48. Ming Yan, Xin Wang, Yudi Dai, Siqi Shen, Chenglu Wen, Lan Xu, **Yuexin Ma**, Cheng Wang. CIMI4D: A Large Multimodal Climbing Motion Dataset under Human-scene Interactions. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2023
49. Yudi Dai, YiTai Lin, XiPing Lin, Chenglu Wen, Lan Xu, Hongwei Yi, Siqi Shen, **Yuexin Ma**, Cheng Wang. SLOPER4D: A Scene-Aware Dataset for Global 4D Human Pose Estimation In Urban Environments. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2023
50. Zhaoyang Xia, Youquan Liu, Xin Li, Xinge Zhu, **Yuexin Ma**, Yikang LI, Yuenan Hou, Yu Qiao. SCPNet: Semantic Scene Completion on Point Cloud. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2023
51. Runnan Chen, Youquan Liu, Lingdong Kong, Xinge Zhu, **Yuexin Ma**, Yikang LI, Yuenan Hou, Yu Qiao, Wenping Wang. CLIP2Scene: Towards Label-efficient 3D Scene Understanding by CLIP. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2023
52. Peishan Cong, Xinge Zhu, Feng Qiao, Yiming Ren, Xidong Peng, Yuenan Hou, Lan Xu, Ruigang Yang, Dinesh Manocha, **Yuexin Ma***. STCrowd: A Multimodal Dataset for Pedestrian Perception in Crowded Scenes. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2022
53. Yudi Dai, Yitai Lin, Chenglu Wen, Siqi Shen, Lan Xu, Jingyi Yu, **Yuexin Ma**, Cheng Wang. HSC4D: Human-centered 4D Scene Capture in Large-scale Indoor-outdoor Space Using Wearable IMUs and LiDAR. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2022
54. Jialian Li, Jingyi Zhang, Zhiyong Wang, Siqi Shen, Chenglu Wen, **Yuexin Ma**, Lan Xu, Jingyi Yu, Cheng Wang. LiDARCap: Long-range Marker-less 3D Human Motion Capture with LiDAR Point Clouds. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2022
55. Yuenan Hou, Xinge Zhu, **Yuexin Ma**, Chen Change Loy, Yikang Li. Point-to-Voxel Knowledge Distillation for LiDAR Semantic Segmentation. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2022
56. Runnan Chen, **Yuexin Ma**, Nenglun Chen, Lingjie Liu, Zhiming Cui, Yanhong Lin, Wenping Wang. Structure-Aware Long Short-Term Memory Network for 3D Cephalometric Landmark Detection. IEEE Transactions on Medical Imaging (TMI), 2022

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57. Yuwei Li, Longwen Zhang, Zesong Qiu, Yingwenqi Jiang, Nianyi Li, **Yuexin Ma**, Yuyao Zhang, Lan Xu, Jingyi Yu. NIMBLE: a non-rigid hand model with bones and muscles. ACM Transactions on Graphics (TOG), 2022
58. Keke Tang, **Yuexin Ma**, Dingrui Miao, Peng Song, Zhaoquan Gu, Zhihong Tian, Wenping Wang. Decision fusion networks for image classification. IEEE Transactions on Neural Networks and Learning Systems (TNNLS), 2022
59. Xiao Song, Guorun Yang, Xinge Zhu, Hui Zhou, **Yuexin Ma**, Zhe Wang, Jianping Shi. AdaStereo: An Efficient Domain-Adaptive Stereo Matching Approach. International Journal of Computer Vision (IJCV), 2022.
60. Yiming Ren, Peishan Cong, Xinge Zhu, **Yuexin Ma***. Self-supervised Point Cloud Completion on Real Traffic Scenes via Scene-concerned Bottom-up Mechanism. IEEE International Conference on Multimedia and Expo (ICME), 2022
61. Xidong Peng, Xinge Zhu, **Yuexin Ma***. SIDE: Center-based Stereo 3D Detector with Structure-aware Instance Depth Estimation. Winter Conference on Applications of Computer Vision (WACV), 2022
62. Xinge Zhu, Hui Zhou, Tai Wang, Fangzhou Hong, Wei Li, **Yuexin Ma***, Hongsheng Li, Ruigang Yang, Dahua Lin. Cylindrical and Asymmetrical 3D Convolution Networks for LiDAR-based Perception. IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2021
63. Peishan Cong, Xinge Zhu, **Yuexin Ma***. Input-Output Balanced Framework for Long-tailed LiDAR Semantic Segmentation. IEEE International Conference on Multimedia and Expo (ICME), 2021
64. Xin Chen, Anqi Pang, Wei Yang, **Yuexin Ma**, Lan Xu and Jingyi Yu. SportsCap: Monocular 3D Human Motion Capture and Fine-grained Understanding in Challenging Sports Videos. International Journal of Computer Vision (IJCV), 2021.
65. Xin Chen, Anqi Pang, Wei Yang, **Yuexin Ma**, Lan Xu and Jingyi Yu. TightCap: 3D Human Shape Capture with Clothing Tightness. ACM Transactions of Graphics (TOG), 2021.
66. Yannan He, Anqi Pang, Xin Chen, Han Liang, Minye Wu, **Yuexin Ma**, Lan Xu. ChallenCap: Monocular 3D Capture of Challenging Human Performances using Multi-Modal References. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Oral, 2021
67. Xinge Zhu, Hui Zhou, Tai Wang, Fangzhou Hong, **Yuexin Ma**, Wei Li, Hongsheng Li, Dahua Lin. Cylindrical and Asymmetrical 3D Convolution Networks for LiDAR Segmentation. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Oral, 2021
68. Weixiang Yang, Qi Li, Wenxi Liu, Yuanlong Yu, **Yuexin Ma**, Shengfeng He, Jia Pan. Projecting Your View Attentively: Monocular Road Scene Layout Estimation via Cross-view Transformation. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021
69. Xinge Zhu, **Yuexin Ma**, Tai Wang, Yan Xu, Jianping Shi, Dahua Lin. SSN: Shape Signature Networks for Multi-class Object Detection from Point Clouds. European Conference on Computer Vision (ECCV), 2020
70. **Yuexin Ma**, Xinge Zhu, Xinjing Cheng, Ruigang Yang, Jiming Liu, Dinesh Manocha. AutoTrajectory: Label-free Trajectory Extraction and Prediction from Videos using Dynamic Points. European Conference on Computer Vision (ECCV), 2020
71. Wei Li, Chengwei Pan, Rong Zhang, Jiaping Ren, **Yuexin Ma**, Jin Fang, Feilong Yan, Qichuan Geng, Xinyu Huang, Huajun Gong, Weiwei Xu, Guoping Wang, Dinesh Manocha, Ruigang Yang. AADS: Augmented

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Autonomous Driving Simulation using Data-driven Algorithms. **Science Robotics**, 2019

72. Runnan Chen, **Yuexin Ma**, Nenglun Chen, Daniel Lee, Wenping Wang. Cephalometric Landmark Detection by Attentive Feature Pyramid Fusion and Regression-Voting. International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), 2019
73. Yang Yi, Feng Ni, **Yuexin Ma**, Xinge Zhu, Yuankai Qi, Riming Qiu, Shijie Zhao, Feng Li, Yongtao Wang. High Performance Gesture Recognition via Effective and Efficient Temporal Modeling. International Joint Conference on Artificial Intelligence (IJCAI), 2019
74. **Yuexin Ma**, Xinge Zhu, Sibozhang, Ruigang Yang, Wenping Wang, Dinesh Manocha. TrafficPredict: Trajectory Prediction for Heterogeneous Traffic-Agents. AAAI Conference on Artificial Intelligence (AAAI), Oral, 2019
75. **Yuexin Ma**, Dinesh Manocha, Wenping Wang. Efficient Reciprocal Collision Avoidance with Heterogeneous Agents Using CTMAT. International Conference on Autonomous Agents and Multiagent Systems (AAMAS), Oral, 2018
76. **Yuexin Ma**, Dinesh Manocha, Wenping Wang. AutoRVO: Local Navigation with Dynamic Constraints in Dense Heterogeneous Traffic. ACM Computer Science in Cars Symposium (CSCS), 2018
77. **Yuexin Ma**, Zhonggui Chen, Wenchao Hu, Wenping Wang. Packing Irregular Objects in 3D Space via Hybrid Optimization. Symposium on Geometry Processing (SGP), 2018
78. **Yuexin Ma**, Xinge Zhu, Yujing Sun, Bingzheng Yan. Image Tagging by Joint Deep Visual-Semantic Propagation. Pacific-Rim Conference on Multimedia (PCM), 2017. Best paper candidate.
79. Weikai Chen*, **Yuexin Ma***, Sylvain Lefebvre, Shiqing Xin, Jonàs Martínez, Wenping Wang. Fabricable Tile Decors. ACM Transactions on Graphics (TOG), 36(6), 2017.