

Tianwei Yin

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📄 tianwei.github.io

Education

- 2022-2027 **Ph.D. Student in Computer Science**, MIT.
◦ Advisor: Frédo Durand and Bill Freeman
- 2018-2022 **B.S. in Computer Science and Math**, UT Austin.
◦ *Dean's Honored Graduate*

Research Experience

- since 2022 **Research Assistant**, MIT, with Frédo Durand and Bill Freeman.
◦ Computer Vision; Visual Processing; Multi-modal Understanding
- 2019-2022 **Research Assistant**, UT Austin, with Philipp Krähenbühl.
◦ Object Detection; Object Tracking; Autonomous Driving.
- 2019-2022 **Research Intern**, Caltech, with Yisong Yue and Katie Bouman.
◦ Computational Imaging; Accelerated MRI; Adaptive Sampling.

Publications

- [1] Xingyi Zhou, Tianwei Yin, Vladlen Koltun, and Philipp Krähenbühl, *Global Tracking Transformer*, In CVPR 2022, Code
- [2] Tianwei Yin*, Zihui Wu*, He Sun, Adrian V. Dalca, Yisong Yue, and Katherine L. Bouman, *End-to-End Sequential Sampling and Reconstruction for Accelerated MRI*, In Machine Learning for Health (ML4H) 2021, Project, Code
- [3] Tianwei Yin, Xingyi Zhou, and Philipp Krähenbühl, *Multimodal Virtual Point 3D Detection*, In NeurIPS 2021, Project, Code
- [4] Tianwei Yin, Xingyi Zhou, and Philipp Krähenbühl, *Center-based 3D Object Detection and Tracking*, In CVPR 2021, Project, Code

Honors & Awards

- Dec 2021 **CRA Outstanding Undergraduate Researcher Award Runner-up**
- Oct 2021 **ML4H 2021 Best Paper Award**
- Jun 2021 **UT Computer Science 2021 Best Honors Thesis Award**
- Jun 2021 **2nd place, CVPR 2021 Waymo Real-time 3D Detection Challenge**
- May 2021 **Huckin-Liedtke-Lupton Endowed Presidential Scholarship**
- Dec 2020 **Winner, NeurIPS 2020 NuScenes 3D Detection Challenge**
- Jun 2020 **Caltech Summer Undergraduate Research Fellowship**
- May 2020 **James F. and Bernice M. Hinton Endowed Presidential Scholarship**

Services

Conference Reviewer: CVPR, ICCV, ECCV, ICLR, NeurIPS, ICRA

Journal Reviewer: TPAMI, IJCV

Teaching Assistant: CS 342 Neural Networks

Skills

Python, PyTorch