

# Angtian Wang

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WORKING EXPERIENCE	<b>BYTEDANCE</b> , California, USA ▪ Research Scientist	Jun 2024 – Present
EDUCATION	<b>Johns Hopkins University</b> , Maryland, USA ▪ Ph.D. in Computer Science ▪ Advisor: Prof. Alan Yuille ▪ Graduated with Honors <b>Huazhong University of Science and Technology</b> , Hubei, China ▪ B.S. in Electronic Information Engineering ▪ Graduated with Honors	Sep 2019 – May 2024      Sep 2015- Jun 2019
INTERNSHIP	<b>Meta, Reality Labs</b> , Washington, USA ▪ Research Scientist Intern <b>TikTok Inc.</b> , California, USA ▪ Research Intern	Sep 2022 – May 2023   May 2021 – Nov 2021
PUBLICATION	<b>Angtian Wang</b> , Yuanlu Xu, Nikolaos Sarafianos, Robert Maier, Edmond Boyer, Alan Yuille, Tony Tung. HISR: Hybrid Implicit Surface Representation for Photorealistic 3D Human Reconstruction. <i>AAAI Conference on Artificial Intelligence (AAAI)</i> , 2024 <b>Angtian Wang</b> , Wufei Ma, Alan Yuille, Adam Kortylewski. Neural Textured Deformable Meshes for Robust Analysis-by-Synthesis. <i>IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)</i> , 2024 <b>Angtian Wang</b> , Peng Wang, Jian Sun, Adam Kortylewski, Alan Yuille. VoGE: A Differentiable Volume Renderer using Neural Gaussian Ellipsoids. <i>IEEE/CVF International Conference on Learning Representations, (ICLR)</i> 2023. <b>Angtian Wang</b> , Shenzhao Mei, Alan Yuille, Adam Kortylewski. Neural View Synthesis and Matching for Semi-Supervised Few-Shot Learning of 3D Pose. <i>Conference on Neural Information Processing Systems (NIPS)</i> , 2021. <b>Angtian Wang</b> , Adam Kortylewski, Alan Yuille. NeMo: Neural Mesh Models of Contrastive Features for Robust 3D Pose Estimation. <i>International Conference on Learning Representations, (ICLR)</i> 2021. <b>Angtian Wang*</b> , Yihong Sun*, Adam Kortylewski, Alan Yuille. Robust Object Detection Under Occlusion With Context-Aware CompositionalNets. <i>IEEE/CVF Computer Vision and Pattern Recognition Conference, (CVPR)</i> 2020.	

Tom Fischer, Yaoyao Liu, Prakhar Kaushik, Artur Jesslen, Noor Ahmed, **Angtian Wang**, Alan Yuille, Adam Kortylewski, Eddy Ilg. iNeMo: Incremental Neural Mesh Models for Robust Class-Incremental Learning. *European Conference on Computer Vision, (ECCV) 2024*

Yuanhao Cai, Yixun Liang, Jiahao Wang, **Angtian Wang**, Yulun Zhang, Xiaokang Yang, Zongwei Zhou, Alan Yuille. Radiative Gaussian Splatting for Efficient X-ray Novel View Synthesis. *European Conference on Computer Vision, (ECCV) 2024*

Artur Jesslen, Guofeng Zhang, **Angtian Wang**, Alan Yuille, Adam Kortylewski. Robust 3D-aware Object Classification via Discriminative Render-and-Compare. *European Conference on Computer Vision, (ECCV) 2024*

Yuxiang Lai, Xiaoxi Chen, **Angtian Wang**, Alan Yuille, Zongwei Zhou. From pixel to cancer: Cellular automata in computed tomography. *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2024.

Yuanhao Cai, Jiahao Wang, Zongwei Zhou\*, **Angtian Wang\***, Alan Yuille. Structure-Aware Sparse-View X-ray 3D Reconstruction. *IEEE/CVF Computer Vision and Pattern Recognition Conference, (CVPR) 2024*

Fengrui Tian, Yueqi Duan, **Angtian Wang**, Jianfei Guo, Shaoyi Du. Semantic Flow: Learning Semantic Fields of Dynamic Scenes from Monocular Videos. *International Conference on Learning Representations, (ICLR) 2024*.

Wufei Ma, Qihao Liu, Jiahao Wang, **Angtian Wang**, Xiaoding Yuan, Yi Zhang, Zihao Xiao, Guofeng Zhang, Beijia Lu, Ruxiao Duan, Yongrui Qi, Adam Kortylewski, Yaoyao Liu, Alan Yuille. Adding 3D Geometry Control to Diffusion Models. *International Conference on Learning Representations, (ICLR) 2024*.

Jiahao Yang, Wufei Ma, **Angtian Wang**, Xiaoding Yuan, Alan Yuille, Adam Kortylewski. Robust Category-Level 3D Pose Estimation from Synthetic Data. *IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)*, 2024

Yi Zhang, Pengliang Ji, **Angtian Wang**, Jieru Mei, Adam Kortylewski, Alan Yuille. 3D-Aware Neural Body Fitting for Occlusion Robust 3D Human Pose Estimation. *International Conference on Computer Vision, (ICCV) 2023*.

Yutong Bai\*, **Angtian Wang\***, Adam Kortylewski, Alan Yuille. CoKe: Localized Contrastive Learning for Robust Keypoint Detection. *IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)*, 2023.

Wufei Ma, **Angtian Wang**, Alan Yuille, Adam Kortylewski. Robust Category-Level 6D Pose Estimation with Coarse-to-Fine Rendering of Neural Features. *European Conference on Computer Vision, (ECCV) 2022*.

Bingchen Zhao, Shaozuo Yu, Wufei Ma, Mingxin Yu, Shenxiao Mei, **Angtian Wang**, Ju He, Alan Yuille, Adam Kortylewski. OOD-CV: A Benchmark for Robustness to Individual Nuisances in Real-World Out-of-Distribution Shifts. *European Conference on Computer Vision, (ECCV) 2022*.

Adam Kortylewski, Qing Liu, **Angtian Wang**, Yihong Sun, Alan Yuille. Compositional Convolutional Neural Networks: A Robust and Interpretable Model for Object Recognition under Occlusion. *International Journal of Computer Vision (IJCV)*, 2020.

Yuyin Zhou, Yingwei Li, Zhishuai Zhang, Yan Wang, **Angtian Wang**, Elliot Fishman, Alan Yuille, Seyoun Park. Hyper-Pairing Network for Multi-Phase Pancreatic Ductal Adenocarcinoma Segmentation. *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2019.

Peng Tang, Xinggang Wang, **Angtian Wang**, Yongluan Yan, Wenyu Liu, Junzhou Huang, Alan Yuille. Weakly supervised region proposal network and object detection. *European Conference on Computer Vision, (ECCV)* 2018.

Pengliang Ji, **Angtian Wang**, Yi Zhang, Adam Kortylewski, Alan Yuille. Volumetric Neural Human for Robust Pose Optimization via Analysis-by-synthesis. *NeurIPS 2022 Workshop*

Xingrui Wang, Wufei Ma, **Angtian Wang**, Shuo Chen, Adam Kortylewski, Alan Yuille. Compositional 4D Dynamic Scenes Understanding with Physics Priors for Video Question Answering. *arxiv preprint 2024*

Fengrui Tian, Yaoyao Liu, Adam Kortylewski, Yueqi Duan, Shaoyi Du, Alan Yuille, **Angtian Wang**. Learning a Category-level Object Pose Estimator without Pose Annotations. *arxiv preprint 2024*

Chen Wang, **Angtian Wang**, Junbo Li, Alan Yuille, Cihang Xie. Benchmarking Robustness in Neural Radiance Fields. *arxiv preprint 2023*

**PATENT** Peng Wang, **Angtian Wang**, Jian Sun. Renderer using explicit object representation via rays tracing volume density aggregation. *US Patent 12,045,927*

<b>EXPERIENCE</b>	<b>Leading Organize of 3rd ARROW workshop in ECCV 2022</b>	Oct 2022
	<b>Organize of 4th ARROW workshop in ICCV 2023</b>	Oct 2023
	<b>Organize of 2nd ARROW workshop in ICCV 2021</b>	Oct 2021
	<b>World Science Conference of Israel</b>	Jul 2015

**REVIEW** *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2024

*International Conference on Learning Representations (ICLR)*, 2024

*The Association for the Advancement of Artificial Intelligence (AAAI)*, 2024

*Conference on Neural Information Processing Systems (NIPS)*, 2023

*IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2023

*International Conference on Learning Representations (ICLR)*, 2023

*International Conference on Computer Vision (ICCV)*, 2023

*International Conference on Applied Artificial Intelligence (AICONF)*, 2023

*Winter Conference on Applications of Computer Vision (WACV)*, 2023

*International Journal of Computer Vision (IJCV)*

*European Conference on Computer Vision (ECCV)*, 2022

*IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2022*

*International Conference on Computer Vision (ICCV), 2021*

**SKILL**

**Programming Language:** Python, CUDA, C/C++, MatLab

**DeepLearning Platform:** PyTorch, Pytorch3D