Yuzhong Huang

Contact Information	Email: yuzhongh@usc.edu Phone: (213) 284-4654	Location: Los Angeles, CA 90089 Website: yuzhonghuang.org		
Research Interests	Scene Reconstruction; Neural 3D Representa	ural 3D Representation; Generative Models		
Education	University of Southern California (USC	C)		
	Ph.D. in Computer Science. Advisor: Fred M Thesis: Semantic Structure in Understanding	÷ .		
	M.S. in Electrical Engineering.	Aug 2017 - May 2019		
	Zhejiang University, China			
	B.Eng. in Computer Science.	Aug 2012 - Jun 2016		
Publications	Explaining Human Preferences via Metrics for Structured 3D Reconstruc- tion			
	Jack Langerman, Denys Rozumnyi, Yuzhong Huang , Dmytro Mishkin arXiv 2503.08208			
	OrientDream: Streamlining Text-to-3D tion Control) Generation with Explicit Orienta-		
	Yuzhong Huang, Li Zhong, Chen Zhang, Fred Morstatter, Yu Xi ICASSP 2025.			
	PlanarNeRF: Online Learning of Planar Primitives with Neural Radiance Fields			
	Zheng Chen, Qingan Yan, Huangying Zhan, Changjiang Cai, Xiangyu Xu, Yuzhong Huang , Et al. ICRA 2025.			
	The Unequal Opportunities of Large Language Models: Revealing Demo- graphic Bias through Job Recommendations			
	Abel Salinas, Parth Vipul Shah, Yuzhong H	uang, Robert McCormack, Fred Morstat-		
	ter EAAMO 2023.			
	UniPlane: Unified Plane Detection and Reconstruction from Posed Monoc- ular Videos			
	Yuzhong Huang, Chen Liu, Ji Hou, Ke Huo, Shiyu Dong, Fred Morstatter ICASSP 2025.			
	Hybrid Forecasting of Geopolitical Events			
	Daniel M Benjamin, Fred Morstatter, Yuzhong Huang , Et al. AI Magazine			
	Assessing Scientific Research Papers w	ith Knowledge Graphs		
	Kexuan Sun, Zhiqiang Qiu, Abel Salinas, Yuzhong Huang , Dong-Ho Lee, Daniel Benjamin, Fred Morstatter, Xiang Ren, Kristina Lerman, Jay Pujara SIGIR 2022.			
		Curriculum Vitae, Yuzhong Huang, 1		

Learning Where to Cut from Edited Videos

Yuzhong Huang, Xue Bai, Oliver Wang, Fabian Caba, Aseem Agarwala CVEU @ ICCV 2021. Work done during Adobe internship.

Graph Embedding with Personalized Context Distribution

Yuzhong Huang, Di Huang, Zihao He, Kexuan Sun, Sami Abu-El-Haija, Bryan Perrozi, Kristina Lerman, Fred Morstatter, Aram Galstyan Oral, DL4G @ WWW 2020.

Anchor Attention for Hybrid Crowd Forecasts Aggregation

Yuzhong Huang, Andrés Abeliuk, Fred Morstatter, Pavel Atanasov, Aram Galstyan AAMAS 2020

Statistical Equity: A Fairness Classification Objective

Ninareh Mehrabi, **Yuzhong Huang**, Fred Morstatter EAAMO 2021.

On extended long short-term memory and dependent bidirectional recurrent neural network

Yuanhang Su, **Yuzhong Huang**, and C.-C. Jay Kuo Neurocomputing , 2019, Vol.356, p.151-161

Efficient Text Classification Using Tree-structured Multi-linear Principal Component Analysis

Yuanhang Su, **Yuzhong Huang**, and C.-C. Jay Kuo ICPR 2018.

InteriorNet: Mega-scale multi-sensor photo-realistic indoor scenes dataset

Wenbin Li, Sajad Saeedi, John McCormac, Ronald Clark, Dimos Tzoumanikas, Qing Ye, **Yuzhong Huang**, Rui Tang, Stefan Leutenegger BMVC 2018.

EXPERIENCE USM3D

Organizer of USM3D Wor	hop and Competition	$CVPR \ 2024, \ 2025$
------------------------	---------------------	-----------------------

Hover, Inc

$S\epsilon$	enior Computer Vision Research Engineer	Jan	2024 - 1	Present
•	Working on indoor and outdoor scene reconstruction resea	rch		
•	Working on conditional image generation based on text de	scripti	ion	

OPPO US

Research Intern	May 2023 - Aug 2023
• Working on text to 3D research.	
Meta, Inc	

Research Intern	May	2022	-	Aug	2022
• Working on scene reconstruction from posed monocular	video.				

Adobe, Inc

Research Intern	May 2020 - Aug 2020

• Working on video understanding and temporal video segmentation

Media Communications Lab, USC

Student worker

Sep 2017 - Jun 2018

- Propose ELSTM, a variant of LSTM cell with extended memory capacity.
- Propose TMPCA, a tree structure accelerated PCA for text classification.

Hangzhou Qunhe Information Technology

Software Engineer

Jul 2016 - Jul 2017

- Integrate image super resolution into a CUDA-based GPU renderer engine.
- Propose an albedo map guided image super resolution method to improve texture detail quality.
- Implement steganography in renderer engine for copyright protection.