RUNDI WU

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EDUCATION

Columbia University, New York, U.S.	2020.09 -
PhD student, Department of Computer Science, School of Engineering and Applied Sc	cience
Advisor: Prof. Changxi Zheng	
GPA: 4.22 / 4.33	
Peking University, Beijing, China	2016.09 - 2020.07
B.S., Department of Computer Science, School of Electronic Engineering and Computer	er Science
Turing Class, an elite program	
Advisor: Prof. Baoquan Chen	
GPA: 3.67 / 4.00	
WORK EXPERIENCE	
Google DeepMind, San Francisco	2024.05 - 2024.12
Student Researcher, working with Aleksander Holynski and Ben Poole	
Google Research, San Francisco	2023.05 - 2023.08
Student Researcher, working with Ben Mildenhall and Aleksander Holynski	

Pixel Lab, Tencent America, New York Graphics Research Intern, working with Changxi Zheng and Ran Zhang

PUBLICATIONS

CAT4D: Create Anything in 4D with Multi-View Video Diffusion Models Rundi Wu, Ruiqi Gao, Ben Poole, Alex Trevithick, Changxi Zheng, Jonathan T. Barron, Aleksander Holynski arXiv 2024

Generative Camera Dolly: Extreme Monocular Dynamic Novel View Synthesis Basile Van Hoorick, Rundi Wu, Ege Ozguroglu, Kyle Sargent, Ruoshi Liu, Pavel Tokmakov, Achal Dave, Changxi Zheng, Carl Vondrick ECCV 2024 (Oral)

PhysDreamer: Physics-Based Interaction with 3D Objects via Video Generation Tianyuan Zhang, Hong-Xing "Koven" Yu, **Rundi Wu**, Brandon Y. Feng, Changxi Zheng, Noah Snavely, Jiajun Wu, William T. Freeman ECCV 2024 (Oral)

ReconFusion: 3D Reconstruction with Diffusion Priors Rundi Wu^{*}, Ben Mildenhall^{*}, Philipp Henzler, Keunhong Park, Ruiqi Gao, Daniel Watson, Pratul P. Srinivasan, Dor Verbin, Jonathan T. Barron, Ben Poole, Aleksander Holynski^{*} * Denotes equal contribution CVPR 2024

2022.06 - 2022.08

Sin3DM: Learning a Diffusion Model from a Single 3D Textured Shape Rundi Wu, Ruoshi Liu, Carl Vondrick, Changxi Zheng ICLR 2024

Zero-1-to-3: Zero-shot One Image to 3D Object

Ruoshi Liu, **Rundi Wu**, Basile Van Hoorick, Pavel Tokmakov, Sergey Zakharov, Carl Vondrick ICCV 2023

Implicit Neural Spatial Representations for Time-dependent PDEs

Honglin Chen*, **Rundi Wu***, Eitan Grinspun, Changxi Zheng, Peter Yichen Chen * Denotes equal contribution ICML 2023

Learning to Generate 3D Shapes from a Single Example Rundi Wu, Changxi Zheng SIGGRAPH Asia 2022 (Journal Track)

Dynamic Sliding Window for Realtime Denoising Networks Jinxu Xiang, Yuyang Zhu, **Rundi Wu**, Ruilin Xu, Yuko Ishiwaka, Changxi Zheng ICASSP 2022

DeepCAD: A Deep Generative Network for Computer-Aided Design Models Rundi Wu, Chang Xiao, Changxi Zheng ICCV 2021

Listening to Sounds of Silence for Speech Denoising Ruilin Xu, Rundi Wu, Yuko Ishiwaka, Carl Vondrick, Changxi Zheng NeurIPS 2020

Multimodal Shape Completion via Conditional Generative Adversarial Networks Rundi Wu^{*}, Xuelin Chen^{*}, Yixin Zhuang, Baoquan Chen * Denotes equal contribution ECCV 2020 spotlight

PQ-NET: A Generative Part Seq2Seq Network for 3D Shapes Rundi Wu, Yixin Zhuang, Kai Xu, Hao Zhang, Baoquan Chen CVPR 2020

Learning Character-Agnostic Motion for Motion Retargeting in 2D Kfir Aberman, Rundi Wu, Dani Lischinski, Baoquan Chen, Daniel Cohen-Or ACM SIGGRAPH 2019

ACADEMIC SERVICE

Reviewers for SIGGRAPH (2022, 2024), SIGGRAPH Asia (2020, 2022, 2023), NeurIPS (2021, 2022), ICLR (2022, 2023, 2024), CVPR (2023, 2024), ICML (2023, 2024), TVCG, Eurographics (2024).

TEACHING EXPERIENCES

Teaching Assistant, Columbia University COMS W4167, Computer Animation Instructor: Prof. Changxi Zheng 2024.02 - 2024.05

Teaching Assistant, Columbia University COMS W4732, Computer Vision II: Learning Instructor: Prof. Carl Vondrick

Teaching Assistant, Columbia University COMS W4731, Computer Vision I: First Principles Instructor: Prof. Shree Nayar

OPEN SOURCE PROJECTS

TensorLayer 2.0, a TensorFlow-based deep learning and reinforcement learning library designed for researchers and engineers. Contributor for version 2.0 initial development. https://github.com/tensorlayer/tensorlayer

HONORS & IMPORTANT AWARDS

- 1. Columbia SEAS Dean's Fellowship 2020, Columbia University
- 2. Peking University Scholarship Second Prize in the academic year of 2018-2019, Peking University
- 3. "Mount Qomolangma Climbing" Scholarship in the academic year of 2017-2018, Peking University
- 4. "Founder Group" Scholarship in the academic year of 2016-2017, Peking University
- 5. Merit Student in the academic year of 2016-2017 and 2018-2019, Peking University

2022.09 - 2022.12