

# DONGLAI XIANG

✉ xdl13thu@gmail.com · [in](#) · [github](#) <https://xiangdonglai.github.io/>

## EDUCATION

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<b>Ph.D. in Robotics, Carnegie Mellon University</b> <i>Advisor: Prof. Jessica Hodgins</i>	2019 - 2023
<b>M. S. in Robotics, Carnegie Mellon University</b> <i>Advisor: Prof. Yaser Sheikh</i>	2017 - 2019
<b>B. Eng. in Electronic Engineering, Tsinghua University</b>	2013 - 2017

## WORK EXPERIENCE

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<b>Research Scientist, NVIDIA</b> <i>Research in areas including geometry processing, simulation, dynamic reconstruction and generation</i>	2023.10 - now
<b>Visiting Researcher, Meta Reality Labs Research, Pittsburgh</b> <b>and Research Intern, Facebook Reality Labs Research, Pittsburgh</b> <i>Research on dynamic garment modeling for photorealistic telepresence</i> <i>Work featured in <a href="#">Meta Connect 2022</a> and covered in media by <a href="#">UploadVR</a>, <a href="#">MIXED</a>, <a href="#">80 Level</a>, and <a href="#">Inside</a> etc.</i>	2021.4 - 2023.6 2020.5 - 2020.12
<b>Research Intern, Facebook AI Research (FAIR), Pittsburgh</b> <i>Research on body shape estimation and garment reconstruction, mentored by Jessica Hodgins</i>	2019.5 - 2019.8
<b>Visiting Scholar, University of Michigan</b> <i>Research on single-image depth estimation, mentored by Weifeng Chen and Jia Deng</i>	2016.7 - 2016.9

## PUBLICATION

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- M. Liu, M. A. Uy, **D. Xiang**, H. Su, S. Fidler, N. Sharp, J. Gao, "PartField: Learning 3D Feature Fields for Part Segmentation and Beyond." International Conference on Computer Vision (ICCV) 2025
- X. Li, Q. Ma, T.-Y. Lin, Y. Chen, C. Jiang, M.-Y. Liu, **D. Xiang**. "Articulated Kinematics Distillation from Video Diffusion Models." Conference on Computer Vision and Pattern Recognition (CVPR) 2025
- Q. Zhao, Y. Lu, M. J. Kim, Z. Fu, Z. Zhang, Y. Wu, Z. Li, Q. Ma, S. Han, C. Finn, A. Handa, M.-Y. Liu, **D. Xiang\***, G. Wetzstein\*, T.-Y. Lin\*. "CoT-VLA: Visual Chain-of-Thought Reasoning for Vision-Language-Action Models." Conference on Computer Vision and Pattern Recognition (CVPR) 2025
- J. Tan, **D. Xiang**, S. Tulsiani, D. Ramanan, G. Yang. "DressRecon: Freeform 4D Human Reconstruction from Monocular Video." International Conference on 3D Vision (3DV) 2025
- NVIDIA (Core Contributors). "Edify 3D: Scalable High-Quality 3D Asset Generation." Technical Report 2024
- Y. Zheng, Q. Zhao, G. Yang, W. Yifan, **D. Xiang**, F. Dubost, D. Lagun, T. Beeler, F. Tombari, L. Guibas, G. Wetzstein. "PhysAvatar: Learning the Physics of Dressed 3D Avatars from Visual Observations." European Conference on Computer Vision (ECCV) 2024
- J. Guo, F. Prada, **D. Xiang**, J. Romero, C. Wu, H.S. Park, T. Shiratori, S. Saito. "Diffusion Shape Prior for Wrinkle-Accurate Cloth Registration." International Conference on 3D Vision (3DV) 2024
- **D. Xiang**, F. Prada, Z. Cao, K. Guo, C. Wu, J. Hodgins, T. Bagautdinov. "Drivable Avatar Clothing: Faithful Full-Body Telepresence with Dynamic Clothing Driven by Sparse RGB-D Input." SIGGRAPH Asia 2023
- **D. Xiang**, T. Bagautdinov, T. Stuyck, F. Prada, J. Romero, W. Xu, S. Saito, J. Guo, B. Smith, T. Shiratori, Y. Sheikh, J. Hodgins, C. Wu. "Dressing Avatars: Deep Photorealistic Appearance for Physically Simulated Clothing." ACM Transaction on Graphics (SIGGRAPH Asia) 2022
- O. Halimi, T. Stuyck, **D. Xiang**, T. Bagautdinov, H. Wen, R. Kimmel, T. Shiratori, C. Wu, Y. Sheikh, and F. Prada. "Pattern-Based Cloth Registration and Sparse-View Animation." ACM Transaction on Graphics (SIGGRAPH Asia) 2022

- **D. Xiang**, F. Prada, T. Bagautdinov, W. Xu, Y. Dong, H. Wen, J. Hodgins, C. Wu. “Modeling Clothing as a Separate Layer for an Animatable Human Avatar.” ACM Transaction on Graphics (SIGGRAPH Asia) 2021
- T. Fan, K. V. Alwala, **D. Xiang**, W. Xu, T. Murphey, M. Mukadam. “Revitalizing Optimization for 3D Human Pose and Shape Estimation: A Sparse Constrained Formulation.” International Conference on Computer Vision (ICCV) 2021
- **D. Xiang**, F. Prada, C. Wu, J. Hodgins. “MonoClothCap: Towards Temporally Coherent Clothing Capture from Monocular RGB Video.” International Conference on 3D Vision (3DV) 2020 (**Best Paper Honorable Mention**)
- E. Ng, **D. Xiang**, H. Joo, K. Grauman. “You2Me: Inferring Body Pose in Egocentric Video via First and Second Person Interactions.” Conference on Computer Vision and Pattern Recognition (CVPR) 2020
- G. Hidalgo, Y. Raaj, H. Idrees, **D. Xiang**, H. Joo, T. Simon, Y. Sheikh. “Single-Network Whole-Body Pose Estimation.” International Conference on Computer Vision (ICCV) 2019
- **D. Xiang**, H. Joo, Y. Sheikh. “Monocular Total Capture: Posing Face, Body, and Hands in the Wild.” Conference on Computer Vision and Pattern Recognition (CVPR) 2019 (Oral)
- W. Chen, **D. Xiang**, J. Deng. “Surface Normals in the Wild”. International Conference on Computer Vision (ICCV) 2017

#### AWARDS

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**Outstanding Reviewer**, CVPR 2021, ICCV 2021

**Best Paper Honorable Menton**, 3DV 2020

#### SERVICES

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**Conference Reviewer**

Since 2020

CVPR, ICCV, WACV, SIGGRAPH Asia, NeurIPS, ICLR

**Journal Reviewer**

Since 2020

TIP, IJCV, TPAMI

**Program Committee**

AAAI Student Program

2023, 2024